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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR)

Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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(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**Advanced Anti-Radiation Guided Missile -
Extended Range**PNO**

607

Lead Component

Department of the Navy

Joint Program

No

Adaptive Acquisition Pathway

Major Capability Acquisition

Acquisition Category

IB

Acquisition Status

Active Acquisition

Short Name

AARGM-ER

Decision Authority

Component Acquisition Executive

Program Executive Office

PEO Unmanned Aviation & Strike Weapons

Supporting Components

Department of the Air Force

Acquisition Type

Major Defense Acquisition Program

Acquired Systems

AARGM-ER

Mission

The AGM-88G Advanced Anti-Radiation Guided Missile-Extended Range (AARGM-ER) is an air-launched missile with the capability to rapidly engage air-defense threats. The AARGM-ER configuration will leverage previous investments on the AGM-88E AARGM and incorporate a new solid rocket motor for increased range. AARGM-ER will be integrated on the F/A-18E/F Super Hornet and EA-18G Growler aircraft and configured for internal carriage on the F-35 Lightning II. AARGM-ER requirements are documented in the AARGM-ER CDD that was approved via Joint Requirements Oversight Committee Memorandum (JROCM) serial number 052-16, dated June 16, 2016.

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

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Extended Range PMO
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(U) Executive Summary

Program Highlights Since Last Report

The fifth and sixth Developmental Test (DT) events were successfully completed on April 21, 2023 and July 29, 2023 respectively, which completed Developmental Test.

The first of four Integrated Test events was conducted on October 28, 2023 to address KPP threat target at threshold range with IOC software build. The Integrated Test event experienced a test failure, which was traced to a software defect identified during the root cause investigation. Software is currently being updated and undergoing a more thorough release testing process.

The second of four Integrated Test events is scheduled for April 2024.

LRIP3 contract awarded November 28, 2023. The LRIP4 Request for Proposal was issued to the contractor In January 2024.

Defense Cost and Resource Center Cost and Software Data Reporting (CSDR) Compliance Rating: Green Advisory.

There are no significant software-related issues with this program at this time; however, staffing to support software development is constraining the contractor.

(U) History of Significant Developments Since Program Inception

Date	Description
November 2023	LRIP 3 contract award.
October 2023	First Integrated Test flight conducted.
July 2023	Sixth Developmental Test flight conducted.
April 2023	Fifth Developmental Test flight conducted.
November 2022	Fourth Developmental Test flight conducted.
April 2022	Third Developmental Test flight conducted.
January 2022	Second Developmental Test flight conducted.
December 2021	LRIP 2 contract award.
September 2021	Approved entry into Production and Deployment phase.
September 2021	Low Rate Initial Production (LRIP) 1 Contract award.
July 2021	First Developmental Test flight conducted.
February 2020	Critical Design Review conducted.
March 2019	Program initiation at Milestone B.
March 2019	Engineering and Manufacturing Development (EMD) contract award.

(U) Schedule**(U) Schedule Events**

Events		APB Change 1 (Current) 9/3/2021 Objective / Threshold		Current Estimate 12/31/2023	Actual
Knowledge Point 2	MS B	Jan 2019	Jan 2019	-	15 Jan 2019
Knowledge Point 4	LRIP Decision	Sept 2021	Sept 2021	-	26 Jul 2021
IOC	IOC	Sept 2023	Jul 2024	Jul 2024	-
FRP	FRP Decision	Nov 2024	May 2025	May 2025	-

Notes

The IOC current estimate is July 2024 due to delays in test assets, developmental testing, integrated flight test, and weapons safety certifications, which are all required to complete prior to delivery of assets to support IOC.

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/30/2022	Delays in final software build affecting IOC date and operational test commencement.

(U) Performance

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

(U) Performance Attributes

Availability Ao		KPP
Current Estimate 12/31/2023		(T=O) >=0.9
Demonstrated Performance -		TBD
APB Change 1 (Current) 9/3/2021	Objective	(T=O) >=0.9
	Threshold	>=0.9
Availability Am		KPP
Current Estimate 12/31/2023		(T=O) >=0.8
Demonstrated Performance -		TBD
APB Change 1 (Current) 9/3/2021	Objective	(T=O) >=0.8
	Threshold	>=0.8

(U) Requirement Source:

Sponsor(s): None

- 1. Document Type Not Provided
Notes: CDD dated June 16, 2016

Notes

Requirements Source should be updated to say "Note: CDD dated October 21, 2021."

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate**(U) Total Acquisition Estimates and Quantities**

Category (\$M) Base Year: 2021	APB Change 1 (Current) 9/3/2021 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
	RDT&E	781.7	859.9	773.9
Procurement	2,769.4	3,046.3	3,023.3	4,075.4
MILCON	0.0	0.0	0.0	0.0
O&M	0.0	0.0	0.0	0.0
R&MF	-	-	0.0	0.0
Total Acquisition	3,551.1	-	3,797.2	4,890.2
Program Acquisition Unit Cost	1.693	1.862	1.811	2.332
Average Procurement Unit Cost	1.331	1.464	1.454	1.959
Program End-Item Quantity				
Development	17		17	
Procurement	2080		2080	
O&M-Acquired	-		0	

Budget Notes

The PB 2025 Budget estimate includes FY 2023 awarded funding and quantities, FY 2024 procurement congressional addition, and PB 2025 (2024) escalation indices

Quantity Notes

The Procurement quantity total includes 2080 AGM-88G AARGM-ER AUR missiles and does not include 91 Captive Air Training Missiles (CATMs).

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	The current estimate is aligned with the PB 2025 budget submission. PB 2025 includes AARGM-ER AUR unit cost then year increases due to the current macroeconomic environment and material uncertainty.
2	The production estimate continues to be sensitive to the annual quantities assumed. PB 2025 assumes inclusion of United States Air Force AARGM-ER All Up Rounds in FY 2023 to FY 2026 and FMS All Up Rounds in FY 2024 to FY 2025.

Current Baseline Risks (9/3/2021)
None
Original Baseline Risks (2/27/2019)
After review of the programmatic and technical baseline at KP-2, the MDA directed AARGM-ER to utilize the Component Cost Position as the funding requirement. The OSD CAPE performed an ICE which independently validated the procurement estimate, however they identified risk to the development associated with schedule. The production estimate is sensitive to the annual quantities assumed. The Baseline Estimate includes United States Air Force quantities through FY 2023.

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY\$M) Base Year: 2021	Current Baseline 09/03/2021	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	3,551.1	3,797.2	
Program Quantity	2,097	2,097	
PAUC	1.693	1.811	6.96%
Average Procurement Unit Cost			
Procurement Cost	2,769.4	3,023.3	
Procurement Quantity	2,080	2,080	
APUC	1.331	1.454	9.20%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2019	Original Baseline 02/27/2019	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	3,442.1	3,635.8	
Program Quantity	2,097	2,097	
PAUC	1.641	1.734	5.67%
Average Procurement Unit Cost			
Procurement Cost	2,693.5	2,894.8	
Procurement Quantity	2,080	2,080	
APUC	1.295	1.392	7.49%

The Current Estimate's constant-year dollars have been converted from Base Year 2021 to Base Year 2019 using the National Defense Budget Estimates for FY 2024 (Green Book).

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

No significant or critical cost growth.

Impacts of Performance Changes on Unit Cost

No significant or critical cost growth.

Actions taken or Proposed to Control Future Cost Growth

No significant or critical 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: 2021	APB Change 1 (Current) 9/3/2021 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
	Total O&S	272.3	299.5	286.9
Total Disposal	-	-	2.2	4.1

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Component Cost Estimate

Approved by: CNA, June 22, 2021

Note: Department of the Navy Component Cost Position from Knowledge Point 4 (KP-4) with updated quantity profile and PB 2025 (2024) inflation indices.

Disposal/Demilitarization Cost

Type: Component Cost Estimate

Approved by: CNA, June 22, 2021

Note: Department of the Navy Component Cost Position from KP-4 with updated quantity profile and PB 2025 (2024) inflation indices

Operating and Support Baseline Deviation Explanation

None

Cost Notes

None

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2021	Estimate	
Prior Estimate (6/22/2021)	272.3	
Current Estimate	286.9	
Category	Variance	Explanation
Unit-Level Manpower	0.0	N/A
Unit Operations	0.0	Due to procurement and delivery schedule extension in PB 2025 compared to KP-4, the current O&S estimate includes 30 years of sustainment compared to the KP-4 estimate of 27 years of sustainment.

(CY\$M) Base Year: 2021	Estimate	
Maintenance	0.6	Due to procurement and delivery schedule extension in PB 2025 compared to KP-4, the current O&S estimate includes 30 years of sustainment compared to the KP-4 estimate of 27 years of sustainment.
Sustaining Support	8.8	Due to procurement and delivery schedule extension in PB 2025 compared to KP-4, the current O&S estimate includes 30 years of sustainment compared to the KP-4 estimate of 27 years of sustainment.
Continuing System Improvements	5.1	Due to procurement and delivery schedule extension in PB 2025 compared to KP-4, the current O&S estimate includes 30 years of sustainment compared to the KP-4 estimate of 27 years of sustainment.
Other	-	N/A
Not Categorized	0.0	

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

(CY\$M) Base Year: 2021							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AARGM-ER	-	0.4	102.4	114.2	70.0	-	286.9
Program	-	0.4	102.4	114.2	70.0	-	286.9

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

(CY\$M) Base Year: 2021							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AARGM-ER	-	-	0.0	0.0	0.0	-	0.0
AGM-88E AARGM (Antecedent)	-	-	0.0	0.0	0.0	-	0.0

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AARGM-ER	2,080	15.0	AUR	2024 - 2053
AGM-88E AARGM (Antecedent)	1,807	15.0	AUR	2011 - 2039

Additional O&S Estimate Assumptions

The O&S cost estimate is in BY 2021 dollars as reflected in the current APB using PB 2025 (2024) escalation indices. The estimate concentrates on the costs for the AGM-88G AARGM-ER All Up Round missiles. The quantity to sustain does not include 17 developmental assets that are not maintained.

Antecedent Estimate Assumptions

The Antecedent System is the AARGM. AARGM estimate updated to reflect the FY 2024 Sustainment Review Independent Cost Estimate. Data is based on a AARGM period of performance of FY 2011 - FY 2039 (29 years), vice FY 2024 - FY 2053 (30 years) for AARGM-ER. Historical O&S costs were collected from the Naval Visibility & Management of Operating and Support Costs database, Ordnance Programs Optimization Model, and program spend plans. Antecedent costs are not normalized to the AGM-88G AARGM-ER parameters. The O&S cost estimate is in BY 2021 dollars as reflected in the current APB.

O&S Annual Cost Calculation Memo

Total Cost / Total Years of Service / Total Quantity = Annual Cost
\$286.9M / 30 years / 2080 All Up Round missiles = \$0.005M per year (BY 2021).

(U) Technologies and Systems Engineering

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

Event	Date	Description
Current	6/3/2024	Component Energetics Qualification.
Current	5/13/2024	Integrated Flight Test Completion

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AARGM-ER Engineering and Manufacturing Development (EMD)	N0001919C0050	Alliant Techsystems Operations LLC	Development
AARGM-ER Low-Rate Initial Production (LRIP) 1 & 2	N00019-21-C-0044	Alliant Techsystems Operations LLC	Production
AARGM-ER Low-Rate Initial Production (LRIP) 3	N00019-24-C-0008	Alliant Techsystems Operations LLC	Production

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

Contract Number:	N0001919C0050	Order Number:	-
Contract Title:	AARGM-ER Engineering and Manufacturing Development (EMD)	Strategy:	-
CAGE:	3EFM9 - Alliant Techsystems Operations LLC	Contracting Office:	N00019
City, State/Province:	Northridge, CA		
Effort Number:	-	Supported Phase:	Development
Type:	Cost Plus Fixed Fee	Award Date:	March 7, 2019
Latest Modification Date:	January 5, 2024	Definitization Date:	March 7, 2019
Latest Modification No.:	P00046	Work Start Date:	-
Technical Data Rights:	-		
Notes:	Contract Notes: The difference between the Initial Contract Price Target and the Current Contract Price Target is due to an EMD contract modification, issued in September 1, 2021, which increased the target price of a contract line item number for Systems Engineering and Development for Electronic Safe Arm Device and Warhead. The Contract has Cost and Software Data Reporting (CSDR) Reporting under CSDR Plan N-12-N-C6-S1(R) and Subcontract Plan Sub N-12-N-C6-S1(R).		

Initial Price (TY \$M) Target / Ceiling	Current Price (TY \$M) Target / Ceiling	Est. Price at Completion (TY \$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
317.1 317.1	388.8 453.2	448.8 453.2	17	17	7

Work Completed (%): 89.58%
 Cost Variance (TY\$M): -87.3
 Schedule Variance (TY\$M): -11.3

Factors Contributing to Cost Variance and Projected Effects on Program Costs

The unfavorable net change in the cost variance is due to rework caused by anomalies discovered during integration testing, investigation efforts, and additional resources required to complete planned efforts. Cost variance is not anticipated to recover and further growth is expected.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

The unfavorable net change in the schedule variance is due to ongoing design modifications and material hardware delays.

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

Contract Number: N00019-21-C-0044 Order Number: -
 Contract Title: AARGM-ER Low-Rate Initial Production (LRIP) 1 & 2 Strategy: -
 CAGE: 3EFM9 - Alliant Techsystems Operations LLC Contracting Office: N00019
 City, State/Province: Northridge, CA
 Effort Number: - Supported Phase: Production
 Type: Firm-Fixed-Price Award Date: September 14, 2021
 Latest Modification Date: December 13, 2023 Definitization Date: -
 Latest Modification No.: P00015 Work Start Date: -
 Technical Data Rights: -
 Notes: The Contract has CSDR Reporting under CSDR Plan N-12-N-C9(R).

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Est. Price at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
41.2 -	151.4 -	- -	16	74	-

Work Completed (%): -
 Cost Variance (TY\$M): 0.0
 Schedule Variance (TY\$M): 0.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

This Firm Fixed Price Contract does not have earned value reporting.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

This Firm Fixed Price Contract does not have earned value reporting.

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

Contract Number: N00019-24-C-0008 Order Number: -

Contract Title: AARGM-ER Low-Rate Initial Production (LRIP) 3 **Strategy:** -

CAGE: 3EFM9 - Alliant Techsystems Operations LLC **Contracting Office:** N00019

City, State/Province: Northridge, CA

Effort Number: - **Supported Phase:** Production

Type: Firm-Fixed-Price **Award Date:** November 28, 2023

Latest Modification Date: December 21, 2023 **Definitization Date:** -

Latest Modification No.: P00001 **Work Start Date:** -

Technical Data Rights: -

Notes: The Contract has CSDR Reporting under CSDR Plan N-12-N-C10(R) and Subcontract Plan N-12-N-10-S1(R).

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Est. Price at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
235.7	237.9	-	-	-	-	118	118	-

Work Completed (%): -

Cost Variance (TY\$M): 0.0

Schedule Variance (TY\$M): 0.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

This Firm Fixed Price Contract does not have earned value reporting.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

This Firm Fixed Price Contract does not have earned value reporting.

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

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	208	312
Date	3/14/2019	12/2/2020
Reference	KP-2 ADM	KP-4 Acquisition Strategy ADM
LRIP Period	FY 2021 - 2023	FY 2021 - 2024
Total Procurement Quantity	2,080	2,080
LRIP Percentage of Total	10.0%	15.0%

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 due to adding LRIP lot 4 that increased the LRIP quantity from 10% to 15% to reduce schedule risk to FRP, as approved by Milestone Decision Authority (MDA).

LRIP Notes

Knowledge Point 2 (KP-2) ADM approved LRIP quantities of up to 208 AURs. The Knowledge Point 4 (KP-4) Acquisition Strategy update approved an additional LRIP contracting year, increasing LRIP quantities up to 312 AURs.

(U) Deliveries and Expenditures**(U) Acquisition Funding**

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	22	9	40.9%
Appropriations (TY, \$M)	4,890.2	1,333.6	27.3%
Expenditures (TY, \$M)	4,890.2	809.9	16.6%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	17			
AARGM-ER		17	7	
Procurement	2,080			
AARGM-ER		28	0	
Total	2,097	45	7	0.3%

Notes

Expenditures are updated as of March 11, 2024 to reflect RDT&E,N for U.S. Navy (USN) (\$593.60M) and U.S. Air Force (USAF) (\$121.32M). This amount does not include CLIN 0008, USAF F-35A Integration Support and Test Asset Build. Expenditures also include \$95.01M for USN WPN. The WPN Procurement quantity total includes 2080 AGM-88G AARGM-ER All Up Round missiles and does not include 91 Captive Air Training Missiles (CATMs).

(U) International Program Aspects

General Memo

Adhering to strategic objectives by enhancing interoperability and delivering capability to international allies.

Exportability and Business Issues

AARGM-ER was designed with exportability in mind with proper program protection elements in place.

Is design for international exportability planned? Yes Industry/Partner Exportability Cost-Sharing? Yes

Program Protection: Technology Security and Foreign Disclosure Issues

Each country request will be reviewed on a case-by-case basis and is contingent upon policy review.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY\$M)
7/17/2023	FMS LOA	AT-P-ASA	-	-	-

(U) Agreement Information

Partner(s): - Activity Date: 7/17/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: AT-P-ASA
Notes: Quantities for Australia are classified.
Total case value is \$293M.



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**Modernized
Selected Acquisition Report
Supplement**

**Advanced Anti-Radiation Guided Missile - Extended Range
(AARGM-ER)**

FY 2025 President's Budget
As of: December 31, 2023

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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

Advanced Anti-Radiation Guided Missile - Extended Range

Short Name

AARGM-ER

PNO

607

Lead Component

Navy

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

AARGM-ER

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S

Program Use of the Adaptive Acquisition Framework

This acquisition is accomplished by a single program in the Major Capability Acquisition Pathway

Technologies and Systems Engineering

Advanced Anti-Radiation Guided Missile - Extended Range

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts

Funding Sources (Acquisition)

Acquisition Funding Notes

None.

Advanced Anti-Radiation Guided Missile - Extended Range

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	07	0205601N - Anti-Radiation Missile Improvement	0205601N	2189 - AARGM BLK II	x	
Note: FY24 begins non-MDAP shared funds.							
RDT&E	3600F	05	0207328F - Stand In Attack Weapon	0207328F	653133 - Armament Subsystems	x	
Procurement	1507N	02	2327 - AARGM	0204162N	-		
Procurement	1507N	02	2327 - AARGM	0206138M	-		
Procurement	1507N	06	6120 - Spares and Repair Parts	0204162N	-	x	

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

Advanced Anti-Radiation Guided Missile - Extended Range

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
Procurement	1507N	06	6120 - Spares and Repair Parts	0204162N	-	x	
O&M	1804N	01	1D4D - Weapons Maintenance	0702207N	-		

Acquisition Estimate and Quantity Summary

Advanced Anti-Radiation Guided Missile - Extended Range

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2021 (\$M)	CY2019 (\$M)	CY2024 (\$M)
RDT&E		814.8	773.9	741.0	887.8
Procurement		4,075.4	3,023.3	2,894.6	3,468.3
MILCON		-	-	-	-
O&M		-	-	-	-
Total Acquisition		4,890.2	3,797.2	3,635.6	4,356.1
PAUC		2.332	1.811	1.734	2.077
APUC		1.959	1.454	1.392	1.667

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
AARGM-ER		17	2,080
Total		17	2,080

Unit Description

The Program of Record quantity of 2080 units is for AGM-88G AARGM-ER All Up Round (AUR) missile and does not include 91 Captive Air Training Missiles (CATMs).

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	756.4	37.3	12.5	8.5	-	-	-	-	814.8
Procurement	340.6	204.3	251.4	262.7	276.0	268.7	275.3	2,196.4	4,075.4
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	1,097.0	241.6	264.0	271.3	276.0	268.7	275.3	2,196.4	4,890.2

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Advanced Anti-Radiation Guided Missile - Extended Range

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 CY2021 (\$M)
Total		685.5	685.5	-	649.2
2016		9.212	9.2	0.922715	10.0
2017		28.954	29.0	0.939980	30.8
2018		49.145	49.1	0.963004	51.0
2019		95.890	95.9	0.981551	97.7
2020		112.126	112.1	1.017647	110.2
2021		128.308	128.3	1.063384	120.7
2022		127.168	127.2	1.118938	113.7
2023		76.314	76.3	1.152249	66.2
2024		37.294	37.3	1.178552	31.6
2025		12.545	12.5	1.203553	10.4
2026		8.533	8.5	1.228827	6.9

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Advanced Anti-Radiation Guided Missile - Extended Range

Source for TY\$-CY\$ Conversion: SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

3600F - Research, Development, Test & Eval, AF					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2021 (\$M)
Total		129.3	129.3	-	124.7
2016			-	0.915511	-
2017			-	0.934669	-
2018			-	0.954318	-
2019		7.200	7.2	0.972059	7.4
2020		33.200	33.2	0.997060	33.3
2021		74.178	74.2	1.043904	71.1
2022		-	-	1.099905	-
2023		14.709	14.7	1.138999	12.9

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Advanced Anti-Radiation Guided Missile - Extended Range

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 CY2021 (\$M)
Total	3,714.5	106.9	98.7	55.6	-	99.7	4,075.4	-	3,023.3
2016							-	0.936744	-
2017							-	0.957027	-
2018							-	0.983309	-
2019							-	1.012179	-
2020							-	1.052332	-
2021	30.908	9.328	3.062	1.100		1.892	46.3	1.100351	42.1
2022	90.524	8.728	4.971	1.619		4.439	110.3	1.143327	96.5
2023	165.274	7.321	5.263	2.763		3.417	184.0	1.172893	156.9
2024	182.551	6.618	8.016	3.585		3.517	204.3	1.198644	170.4
2025	226.518	5.460	8.836	2.846		7.778	251.4	1.223941	205.4
2026	240.772	5.628	6.205	3.567		6.574	262.7	1.249644	210.3
2027	253.743	6.498	6.187	3.194		6.338	276.0	1.275886	216.3
2028	246.321	6.702	6.196	3.320		6.185	268.7	1.302680	206.3
2029	251.530	6.774	6.338	4.249		6.385	275.3	1.330036	207.0
2030	258.102	7.058	5.940	3.803		6.725	281.6	1.357967	207.4
2031	262.963	7.146	6.045	3.867		6.917	286.9	1.386484	207.0
2032	268.158	7.241	6.511	3.945		7.113	293.0	1.415600	207.0
2033	273.685	7.344	6.129	4.020		7.315	298.5	1.445328	206.5
2034	279.058	7.506	6.236	4.097		7.522	304.4	1.475680	206.3
2035	282.725	7.576	6.345	4.157		7.735	308.5	1.506669	204.8
2036	261.376	-	6.412	4.001		7.235	279.0	1.538309	181.4
2037	140.262	-	-	1.470		2.636	144.4	1.570614	91.9

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Advanced Anti-Radiation Guided Missile - Extended Range

1319N - Research, Development, Test & Eval, Navy				
fiscal year	AARGM-ER			Total
Total	17			17
Undistributed				-
2016				-
2017				-
2018				-
2019	15			15
2020	2			2

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Advanced Anti-Radiation Guided Missile - Extended Range

1507N - Weapons Procurement, Navy				
fiscal year	AARGM-ER			Total
Total	2,080			2,080
Undistributed				-
2016				-
2017				-
2018				-
2019				-
2020				-
2021	16			16
2022	54			54
2023	84			84
2024	79			79
2025	151			151
2026	164			164
2027	153			153
2028	143			143
2029	144			144
2030	147			147
2031	148			148
2032	149			149
2033	150			150
2034	151			151
2035	151			151
2036	145			145
2037	51			51

Nuclear Costs

Advanced Anti-Radiation Guided Missile - Extended Range

Program's Use of Department of Energy Resources

None.

Operational Fielding Plan

Advanced Anti-Radiation Guided Missile - Extended Range

Some data for this section cannot be provided in an unclassified report

System: AARGM-ER

Fielding and Inventory Notes

AARGM-ER Fielding Plan and Inventory

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

O&S Independent Cost Estimate

Advanced Anti-Radiation Guided Missile - Extended Range

Independent and Current Cost Estimate Comparison

Category	CY2021 (\$M)	Independent Cost Estimate 6/22/2021	Current Estimate 6/22/2021	Variance with ICE (%)
Unit-Level Manpower		-	-	-
Unit Operations		0.3	0.4	10%
Maintenance		101.7	102.4	1%
Sustaining Support		105.4	114.2	8%
Continued System Improvements		64.9	70.0	8%
Other		-	-	-
Total O&S		272.3	286.9	5%

Independent Cost Estimate Source

Event: Knowledge Point 4 (KP 4)
Type: Component Cost Position
Approved by: Center for Naval Analyses, June 22, 2021

Current Cost Estimate Source

Type: Component Cost Position
Approved by: Center for Naval Analyses, June 22, 2021
Note: KP 4 Component Cost Position with updated quantity profile and 2024 escalation indices for PB-25.

Cost Estimate Variance Explanation

Due to procurement and delivery schedule extension in PB 2025 compared to KP 4, the current O&S estimate includes 30 years of sustainment compared to the KP 4 estimate of 27 years of sustainment.

Annual Operating and Support Estimates by Cost Element

Advanced Anti-Radiation Guided Missile - Extended Range

System: AARGM-ER

Source for TY-CY Conversion: PB25/2025 OSD Inflation

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 CY2021 (\$M)
Total	-	0.4	102.4	114.2	70.0	-	286.9
2023							-
2024	-	0.013	0.265	3.320	0.876	-	4.5
2025	-	0.013	0.720	3.335	0.876	-	4.9
2026	-	0.013	1.172	3.599	0.919	-	5.7
2027	-	0.013	1.872	3.616	1.154	-	6.7
2028	-	0.013	2.491	3.633	1.375	-	7.5
2029	-	0.013	2.819	3.650	1.589	-	8.1
2030	-	0.013	3.147	3.668	1.788	-	8.6
2031	-	0.013	3.475	3.687	1.986	-	9.2
2032	-	0.013	3.804	3.706	2.187	-	9.7
2033	-	0.013	4.132	3.725	2.390	-	10.3
2034	-	0.013	4.388	3.746	2.595	-	10.7
2035	-	0.013	4.717	3.766	2.801	-	11.3
2036	-	0.013	5.044	3.788	3.008	-	11.9
2037	-	0.013	5.376	3.809	3.216	-	12.4
2038	-	0.013	5.702	3.832	3.415	-	13.0
2039	-	0.013	5.699	3.855	3.492	-	13.1
2040	-	0.013	5.534	3.879	3.482	-	12.9
2041	-	0.013	5.368	3.904	3.460	-	12.7
2042	-	0.013	5.039	3.929	3.418	-	12.4
2043	-	0.013	4.712	3.955	3.372	-	12.1
2044	-	0.013	4.299	3.981	3.330	-	11.6
2045	-	0.013	3.973	4.009	3.290	-	11.3
2046	-	0.013	3.646	4.037	3.250	-	10.9
2047	-	0.013	3.317	4.066	3.210	-	10.6
2048	-	0.013	3.144	4.096	3.169	-	10.4
2049	-	0.013	2.817	4.127	3.129	-	10.1
2050	-	0.013	2.488	4.158	3.088	-	9.7
2051	-	0.013	1.872	4.190	0.116	-	6.2
2052	-	0.013	1.330	4.224	-	-	5.6
2053	-	-	-	2.868	-	-	2.9