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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR) AIM-9X Block II Sidewinder (AIM-9X Blk II)

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**

AIM-9X Block II Sidewinder

Short Name

AIM-9X Blk II

PNO

442

Milestone Decision Authority

Component Acquisition Executive

Lead Component

Department of the Navy

Program Executive Office

PEO Unmanned Aviation & Strike Weapons

Joint Program

Yes

Supporting Components

Department of the Air Force

Adaptive Acquisition Pathway

Major Capability Acquisition

International Partners

Australia, Bahrain, Belgium, Bulgaria, Canada, Colombia, Czech Republic, Denmark, Estonia, Finland, Germany, Indonesia, Israel, Italy, Japan, Jordan, Korea (Seoul), Kuwait, Malaysia, Morocco, Netherlands, Norway, Oman, Philippines, Poland, Portugal, Qatar, Romania, Saudi Arabia, Singapore, Slovak Republic, Switzerland, Taiwan, Turkey, United Arab Emirates

Acquisition Category

IC

Acquisition Status

Active Acquisition

Acquisition Type

Major Defense Acquisition Program

Acquired Systems

AIM-9X Block II

Mission

The AIM-9X Block II Sidewinder (AIM-9X Blk II) short-range air-to-air missile is a long term evolution of the AIM-9 series of fielded missiles. The missile program provides a launch and leave, air combat munitions that uses passive Infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile. Air superiority in the short-range air-to-air missile arena is essential and includes first shot, first kill opportunity against enemy employing IR countermeasures. Anti-Tamper features have been incorporated to protect improvements inherent in this design.

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

PEO Unmanned Aviation & Strike Weapons
RADM Stephen Tedford
stephen.r.tedford.mil@us.navy.mil (primary)
(301) 757-6332 (commercial)

Program Manager

AIM-9X Block II Sidewinder PMO
CAPT Christopher DeBons
christopher.b.debons.mil@us.navy.mil (primary)
(301) 757-7311 (commercial)

(U) Executive Summary

Program Highlights Since Last Report

The AIM-9X Block II program awarded the ninth full rate production contract (Option Lot 23) in June 2023. The Lot 23 contract updates the missile configuration for Foreign Military Sales (FMS) customers from the AIM-9X-2/-3 to AIM-9X-4/-5, which incorporates obsolescence redesigns that were developed under the Systems Improvement Program (SIP) III contract. SIP III continued development of hardware to address obsolescence and sustainability and Operational Flight Software (OFS) 10.4, which re-hosts OFS 9.4 on improved hardware and increases performance. Additionally, OFS 9.15, which brings fifth-gen IR capability to AIM-9X FMS customers, continues to be fielded world-wide, with the AIM-9X team, in conjunction with Raytheon and China Lake support, executing in-country reprogramming for FMS customers. SIP III Follow-On efforts continued with development of OFS 9.5, which will increase capability and reliability. In addition, FMS software development of OFS 10.15, which is required to re-host OFS 9.15 on AIM-9X-4 and AIM-9X-5 continued. SIP IV risk reduction, which included preliminary efforts associated with updating the AIM-9X sensor and OFS software began transitioning the efforts to the SIP IV contract. The SIP IV contract completed the first year of execution to develop updates to the sensor, electronics and OFS 11.5, and executed the Preliminary Design Review in October 2023. The AIM-9X international team continues to support 31 Block II/II+ International Partner Countries via active FMS Cases, and it also supports a single Building Partner Capacity (BPC) country (Ukraine) under the Ukraine Security Assistance Initiative (USAI) via several USAI-BPC cases, aka Pseudo FMS cases. The AIM-9X team continued to battle Operational Availability (Ao) of the Tactical AIM-9X-2 and the Captive Air Training Missile (CATM), CATM-9X-2, as a result of decreased reliability of the program's top degrader, the mechanical Inertial Measurement Unit (IMU).

Defense Cost and Resource Center Cost and Software Data Reporting Compliance Rating: Red Critical. Defense Cost and Resource Center Cost and Software Data Reporting Compliance Rating: Red Critical. This rating is given because the program has long-term outstanding submissions. Specifically, there are six total delinquent sub-vendor reports with two of those reports more than twelve months overdue.

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

Significant Accomplishments:

February 2023- AIM-9X missile was employed by a U.S. Air Force F-22 Raptor to neutralize an Intelligence, Surveillance, and Reconnaissance balloon from the Peoples Republic of China that was collecting over U.S. territory.

March 2023 - Completed the Initial Baseline Review and System Requirement Review for the System Improvement Plan IV (SIP IV) hardware and software development effort. SIP IV seeks to achieve modernized sensor and electronic capabilities to pace near peer threats beyond 2030.

June 2023 – Executed \$250.7M Production Contract modification that, procures 571 Block II All-Up-Rounds (AURs) (U.S. Navy (91), U.S. Air Force (257), and Building Partner Capacity Ukraine (223)); 48 Block II Captive Air Training Missile (CATMs) (U.S. Navy (38) and U.S. Air Force (10)); as well as containers, various spares, and SIP III transition Non Recurring Engineering.

June 2023 - The PMA-259 International Programs Team's efforts leading up to the Lot 23 Production Contract Award resulted in the procurement of 375 FMS missiles for seven AIM-9X Block II/II+ International Partners. The Lot 23 contribution from the 375 FMS missiles was

valued at \$203.9M, while the USG savings from this FMS missile procurement quantity (61% of total missiles procured) was valued at \$23.4M.

June 2023 - Conducted first ever program Sustainment Review and Gate 7. Principals briefed were VADM Frank Morley and Mr. Chris Miller. Action captured to address Operational Availability (Ao) metrics and the driver trees associated with Ao improvement. DASN Sustainment submitted the Sustainment Review to Congress certifying no critical cost growth for the program in October 2023.

September 2023 – Awarded Production Rate Capacity Undefinitized Contract Action (UCA) to Raytheon for an increase in AIM-9X missile production capacity from 1400 to 2500 per production lot to commence with Lot 25/FY2025. Total obligation was \$87.83M. An additional \$44.00M was awarded in December 2023 bringing the total obligation for this effort to \$131.83M.

October 2023 – Completed the SIP IV Preliminary Design Review

November 2023 - Successfully conducted captive flight test of the AIM-9X SIP III missile software (v10.4) utilizing two (2) F-15 Strike Eagle out of Eglin Air Force Base, Florida.

November 2023 – Completed the annual AIM-9X Gate 6 Sufficiency/Configuration Steering Board review. The review was chaired by VADM Morley, Principal Military Deputy to the Assistant Secretary of the Navy (Research, Development and Acquisition) and RADM Schlise, Assistant Deputy Chief of Naval Operations for Warfighting Requirements and Capabilities.

December 2023 - The PMA-259 International Team and China Lake Subject Matter Experts programmed all of Australia's AIM-9X Block II/II+ in-country inventory missiles with FMS OFS 9.15. Since the initial June 2022 fielding of OFS 9.15, PMA-259 has successfully programmed the in-country AIM-9X Block II/II+ missile inventories of 6 countries, including Australia. The PMA-259 International Programs Team projects completing the OFS 9.15 programming of the missile inventories of the remaining 14 countries currently operating with OFS 9.05 by 2026.

(U) History of Significant Developments Since Program Inception

Date	Description
October 2016	The Program declared FOC for AIM-9X Block II.
September 2016	The U.S. Air Force declared IOC for AIM-9X Block II.
August 2015	AIM-9X Block II received approval to enter FRP.
March 2015	The U.S. Navy declared IOC for AIM-9X Block II.
June 2014	AIM-9X Block II received approval for LRIP IV.
August 2012	AIM-9X Block II received LRIP III approval
June 2011	AIM-9X Block II was designated a separate ACAT IC program entering the acquisition process at Milestone C.
June 2011	AIM-9X Block II received approval for Milestone C LRIP I & II.

(U) Schedule

(U) Schedule Events

Events		Production APB (Milestone) 12/23/2011 Objective	APB Change 2 (Current) 2/1/2019 Objective / Threshold		Current Estimate 12/31/2023	Actual
FRP Decision	FRP Decision	Dec 2013	Aug 2015	Aug 2015	-	17 Aug 2015
FOC	FOC	Oct 2015	Oct 2016	Oct 2016	-	25 Oct 2016
IOC	IOC	Sept 2014	Mar 2015	Mar 2015	-	31 Mar 2015
OT Start	IOT&E	Apr 2012	May 2012	May 2012	-	1 May 2012
OT Complete	IOT&E	Apr 2013	Jan 2015	Jan 2015	-	1 Jan 2015
MS C	MS C	Jun 2011	Jun 2011	Dec 2011	-	24 Jun 2011

Notes

Acronyms and Abbreviations:
 FOC - Full Operational Capability
 FRP - Full Rate Production
 MS - Milestone
 OT - Operational Test

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/31/2021	System Improvement Program (SIP) Application Specific Integrated Circuit (ASIC) Processor and Board Support Package Deliveries May Not Meet Production cut-in.
Current	12/31/2021	Long Term Sustainment of Mechanical Inertial Measurement Unit.

(U) Performance

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

(U) Performance Attributes

AIM-9X BIT Time (sec.) (2)		APA
Current Estimate 12/31/2023		</= 20
Demonstrated Performance -		</= 15
APB Change 2 (Current) 2/1/2019	Objective	<= 20
	Threshold	<= 20
Production APB (Milestone) 12/23/2011	Objective	<= 20
AIM-9X Mean Time Between False Alarms (hr.) (1)		APA
Current Estimate 12/31/2023		>.or.=16
Demonstrated Performance -		>.or.=18
APB Change 2 (Current) 2/1/2019	Objective	>.or.=25
	Threshold	<.or.=16
Production APB (Milestone) 12/23/2011	Objective	>.or.=25
AIM-9X Aircraft Interface/Interoperability Missile Box Size (in.) (1)		KSA
Current Estimate 12/31/2023		</= 12.5X12.5
Demonstrated Performance -		12.5X12.5
APB Change 2 (Current) 2/1/2019	Objective	<= 12.5 X 12.5
	Threshold	<= 12.5 X 12.5
Production APB (Milestone) 12/23/2011	Objective	<= 12.5 X 12.5
Net Readiness		KPP
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
APB Change 2 (Current)	Objective	The capability, system, and/or service must fully support execution of joint critical operational activities

		<p>and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges. 2) Compliant with Net-Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications. 3) Compliant with GIG Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GIG GESPs necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views. 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA and 5) Supportability requirements to include SAASM Spectrum and JTRS requirements</p>
<p>2/1/2019</p>	<p>Threshold</p>	<p>The capability, system, and/or service must fully support execution of all operational activities and information exchanges identified in DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges. 2) Compliant with Net-Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA , excepting tactical and non-IP communications. 3) Compliant with GIG Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs, necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views. 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA and 5) Supportability requirements to include SAASM, Spectrum and JTRS necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views</p>
<p>Production APB (Milestone) 12/23/2011</p>	<p>Objective</p>	<p>The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges. 2) Compliant with Net-Centric Data Strategy and Net-</p>

		Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications. 3) Compliant with GIG Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GIG GESPs necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views. 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA and 5) Supportability requirements to include SAASM Spectrum and JTRS requirements
AIM-9X Captive Carry Reliability (MTBCCF) (hr.) (2)		KPP
Current Estimate 12/31/2023		>.or.=900
Demonstrated Performance 1/30/2023		1567
APB Change 2 (Current) 2/1/2019	Objective	>.or.=900
	Threshold	>.or.=500
Production APB (Milestone) 12/23/2011	Objective	>.or.=900
AIM-9X Day/Night Capability (1)		KPP
Current Estimate 12/31/2023		Yes
Demonstrated Performance -		Yes
APB Change 2 (Current) 2/1/2019	Objective	Yes
	Threshold	Yes
Production APB (Milestone) 12/23/2011	Objective	Yes
AIM-9X Aircraft Interface/Interoperability Missile Weight (lbs.) (2)		APA
Current Estimate 12/31/2023		</= 192
Demonstrated Performance -		186.2
APB Change 2 (Current) 2/1/2019	Objective	<= 192
	Threshold	<= 210
Production APB (Milestone) 12/23/2011	Objective	<= 192
Material Availability (Am) (1)		APA

Current Estimate 12/31/2023		0.88
Demonstrated Performance 1/23/2024		0.93
APB Change 2 (Current) 2/1/2019	Objective	Threshold= Objective
	Threshold	No less than (.82)
Production APB (Milestone) 12/23/2011	Objective	Threshold= Objective
AIM-9X Detect Non-Operational Missile (BIT) All Components (%) (1)		KSA
Current Estimate 12/31/2023		>.or.=0.60
Demonstrated Performance -		0.81
APB Change 2 (Current) 2/1/2019	Objective	>.or.=0.80
	Threshold	>.or.=0.60
Production APB (Milestone) 12/23/2011	Objective	>.or.=0.80
AIM-9X Aircraft Interface/Interoperability Interface (1)		KPP
Current Estimate 12/31/2023		Mid body umbilical only
Demonstrated Performance -		Digital
APB Change 2 (Current) 2/1/2019	Objective	Mid body umbilical only
	Threshold	Digital.
Production APB (Milestone) 12/23/2011	Objective	Mid body umbilical only
AIM-9X High Off Boresight Capability Cueing/Verification (2)		KPP
Current Estimate 12/31/2023		Interface with current/ planned aircraft radar systems and planned HMCS
Demonstrated Performance -		Yes
APB Change 2 (Current) 2/1/2019	Objective	Interface with current/ planned aircraft radar systems and planned HMCS.
	Threshold	Interface with current/ planned aircraft radar systems and planned HMCS.
Production APB (Milestone) 12/23/2011	Objective	Interface with current/ planned aircraft radar systems and planned HMCS.

EMI Compatibility		KPP
Current Estimate 12/31/2023	Not incur damage to electrical components while in the electromagnetic environment of an aircraft carried. The AIM-9X Block II missile shall be compatible with representative threshold hose aircraft weapon and sensor load-outs with regard to RFI, EMI, and MIL-STD-1533 or MIL-STD-1760 data bus message throughput constraints.	
Demonstrated Performance -	Yes	
APB Change 2 (Current) 2/1/2019	Objective	Threshold= Objective
	Threshold	Not incur damage to electrical components while in the electromagnetic environment of an aircraft carried. The AIM-9X Block II missile shall be compatible with representative threshold hose aircraft weapon and sensor load-outs with regard to RFI, EMI, and MIL-STD-1533 or MIL-STD-1760 data bus message throughput constraints.
Production APB (Milestone) 12/23/2011	Objective	Threshold= Objective
AIM-9X Aircraft Interface/Interoperability Missile Diameter (in.) (2)		APA
Current Estimate 12/31/2023	</= 5	
Demonstrated Performance -	</= 5	
APB Change 2 (Current) 2/1/2019	Objective	<= 5
	Threshold	<= 7
Production APB (Milestone) 12/23/2011	Objective	<= 5
AIM-9X Aircraft Interface/Interoperability Missile Length (in.) (2)		KPP
Current Estimate 12/31/2023	</= 123	
Demonstrated Performance -	119.2	
APB Change 2 (Current) 2/1/2019	Objective	<= 115
	Threshold	<= 123
Production APB (Milestone) 12/23/2011	Objective	<= 115
Ao- AUR (1)		KPP
Current Estimate 12/31/2023	>=0.93*	

Demonstrated Performance 1/26/2023		0.92
APB Change 2 (Current) 2/1/2019	Objective	No less than (.98) after 35,000 flight hours
	Threshold	No less than (.93) after 35,000 flight hours
Production APB (Milestone) 12/23/2011	Objective	No less than (.98) after 35,000 flight hours
AIM-9X Detect Non-Operational Missile (BIT-able Components) (%) (2)		KPP
Current Estimate 12/31/2023		>.or.=0.90
Demonstrated Performance -		0.92
APB Change 2 (Current) 2/1/2019	Objective	>.or.=0.95
	Threshold	>.or.=0.90
Production APB (Milestone) 12/23/2011	Objective	>.or.=0.95
Ao- CATM (1)		KPP
Current Estimate 12/31/2023		>=0.86*
Demonstrated Performance 1/23/2024		0.74
APB Change 2 (Current) 2/1/2019	Objective	No less than (.95) after 100,000 flight hours
	Threshold	No less than (.86) after 100,000 flight hours
Production APB (Milestone) 12/23/2011	Objective	No less than (.95) after 100,000 flight hours

* Baseline Deviation

(U) Requirement Source:

Sponsor(s): None

- 1. Document Type Not Provided
Notes: CPD dated May 20, 2011

Notes

Material Availability - Per the CPD, this requirement only pertains to AUR requirements.

Source: CPD dated May 20, 2011.

Acronyms and Abbreviations:

Ao - Operational Availability

ATO - Authorization To Operate

AUR - All Up Round
BIT - Built in Test
CATM - Captive Air Training Missile
DAA - Designated Accrediting Authority
DoDAF - Department of Defense Architecture Framework
EMI - Electromagnetic Interference
GESP - GIG Enterprise Service Profile
GIG - Global Information Grid
HMCS - Helmet Mounted Cueing System
hr - hour
IATO - Interim Authorization to Operate
IEA - Information Enterprise Architecture
in - Inches
IP - Internet Protocol
IT - Information Technology
JTRS - Joint Test Requirement System
lbs - Pounds
Mid - Middle
MIL - Military
MTBCCF - Mean Time Between Captive Carry Failure
RFI - Radio Frequency Interference
SAASM - Selective Availability Anti-Spoofing Module
sec - Seconds
STD - Standard
TV - Technical View

Performance Deviation Explanation

Depot throughput has been adversely impacted by the sub-vendor Collins Aerospace inability to meet Inertial Measurement Unit (IMU) demand, personnel shortages and issues with Factory Test Equipment of the Electronic Units/Guidance Units (EU/GU) Lines. Current AIM-9X Captive Air Training Missile (CATM) Operational Availability (Ao) is 74% for USN and 75% for the USAF. AIM-9X All-Up-Round (AUR) AO is 90%: USN Ao is 95% and USAF is 86%. Projected Ao recovery of both CATM and AUR by June 2025.

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category (\$M) Base Year: 2011	Production APB (Milestone) 12/23/2011 CY\$ obs Objective	APB Change 2 (Current) 2/1/2019 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
		RDT&E	168.8	777.7	855.5
Procurement	3,798.5	4,811.5	5,292.7	4,672.2	6,574.2
MILCON	0.0	0.0	0.0	-	-
O&M	0.0	0.0	0.0	-	-
R&MF	-	-	-	-	-
Total Acquisition	3,967.3	5,589.2	-	5,509.0	7,611.1
Program Acquisition Unit Cost	0.661	0.480	0.528	0.473	0.654
Average Procurement Unit Cost	0.633	0.414	0.455	0.402	0.565
Program End-Item Quantity					
Development	0	0		-	
Procurement	6000	11635		11635	
O&M-Acquired	-	-		-	

Budget Notes

The AIM-9X Blk II cost estimate was updated to align with programmatic assumptions subsequent to PB25 submission resulting in a delta between the RDTE,N "To Complete" total found in PB25 and MSAR.

Quantity Notes

None.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	Supplier base shortages due to long lasting COVID issues and staffing shortages as well as increasing long lead times and inflation have been identified as potential schedule and cost risks industry wide.
Current Baseline Risks (2/1/2019)	
None	
Original Baseline Risks (12/23/2011)	

The original Total Acquisition Cost was \$3967.3M (BY 2011).

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY\$M) Base Year: 2011	Current Baseline 02/01/2019	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	5,589.2	5,509.0	
Program Quantity	11,635	11,635	
PAUC	0.480	0.473	-1.36%
Average Procurement Unit Cost			
Procurement Cost	4,811.5	4,672.2	
Procurement Quantity	11,635	11,635	
APUC	0.414	0.402	-3.00%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2011	Original Baseline 12/23/2011	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	3,967.3	5,509.0	
Program Quantity	6,000	11,635	
PAUC	0.661	0.473	-28.37%
Average Procurement Unit Cost			
Procurement Cost	3,798.5	4,672.2	
Procurement Quantity	6,000	11,635	
APUC	0.633	0.402	-36.56%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

None.

Impacts of Performance Changes on Unit Cost

None.

Actions taken or Proposed to Control Future Cost Growth

None.

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: 2011	Production APB (Milestone) 12/23/2011 CY\$ obs Objective	APB Change 2 (Current) 2/1/2019 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	977.5	1,343.8	1,478.2	1,167.0	2,173.1
Total Disposal	-	-	-	106.2	253.8

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Program Office Estimate

Approved by: D, CAPE, January 30, 2024

Note: The last estimate Milestone approval by Center for Naval Analyses was 2018. Current Program Office estimate was completed January 30, 2024.

Disposal/Demilitarization Cost

Type: Independent Cost Estimate

Approved by: D, CAPE, June 14, 2023

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Disposal/Demilitarization Cost Estimate and Source of Estimate: Total Cost BY 2011\$ \$105.9M; POE January 31, 2024.

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2011	Estimate	
Prior Estimate (12/31/2022)	1,227.6	
Current Estimate	1,167.0	
Category		
	Variance	Explanation
Unit-Level Manpower	-	None.
Unit Operations	-	None.
Maintenance	28.1	Increase due to revised estimating methodologies and updated actual expenditures.

(CY\$M) Base Year: 2011	Estimate	
Sustaining Support	45.0	Increase due to revised estimating methodologies and updated actual expenditures.
Continuing System Improvements	-133.7	Decrease due to revised estimating methodologies and updated actual expenditures.
Other	-	None.
Not Categorized	0.0	

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

(CY\$M) Base Year: 2011							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AIM-9X Block II	-	-	631.9	413.4	121.7	-	1,167.0
Program	-	-	631.9	413.4	121.7	-	1,167.0

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

(CY\$M) Base Year: 2011							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AIM-9X Block II	-	-	12.1	8.0	2.3	-	22.4
AIM-9X BLOCK I (Antecedent)	-	2.2	5.3	5.8	5.1	-	18.4

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AIM-9X Block II	11,635	25.0	missile	2015 - 2067
AIM-9X BLOCK I (Antecedent)	3,097	20.0	missile	2004 - 2032

Additional O&S Estimate Assumptions

The sustainment strategy for the AIM-9X Block II is essentially the same as the previous AIM-9X missile configurations. Raytheon Missile and Defense Systems is the sole source of Depot repairs of the AIM-9X-2 missile. The average turnaround time for Raytheon Depot repairs is over 370 days. In order to reduce turnaround times and decrease the Raytheon Depot backlog, and proved through a follow-on Product Support Business Case Analysis (BCA), Program Manager funded the stand up and training of AIM-9X Intermediate Plus (I+) Sectionalization repair capability forward in the 7th Fleet Area of Responsibility (AOR) (NAWMU-1) and Organic Intermediate Repair Capability at Letterkenny Munitions Center (LEMC). NAWMU-1 and LEMC have the ability to perform

sectionalization maintenance to remove and replace AIM-9X-2 Guidance Units and return AIM-9X-2 missiles back to a Ready For Issue status. Consistent throughput of missiles back to the Fleet is dependent on an adequate spares pool for major 8E Cognizant Code (COG) assemblies - of which the Guidance Unit accounts for 95% of all failures. The expected service life is 20 years for the Navy and 30 years for the USAF.

Antecedent Estimate Assumptions

The antecedent system is AIM-9X Block I. AIM-9X Block I costs were derived based on historical data collected via the Naval Visibility and Management of Operating and Support Costs database and estimated through the remainder of the life (FY 2032). A total of 3,097 AIM-9X Block I missiles were procured. The last year of procurement was FY 2010. There is a 20-year service life assumption for the AIM-9X Block I and a 13-year service life assumption for the Captive Air Training Missiles. The AIM-9X Block I system included a warranty period that accounted for missile repair costs.

O&S Annual Cost Calculation Memo

Average Annual Cost is calculated using the total cost divided by the number of years of sustainment.

Total Cost/Total Years Sustainment = Average Annual Cost
\$1167.0M/52=\$22.4M

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AIM-9X Block II System Improvement Plan III	N00019-15-C-0121 / 01	Raytheon Company	Development
AIM-9X Block II System Improvement Plan III Follow On	N00019-20-C-0071 / 01	Raytheon Company	Development
AIM-9X Block II System Improvement Plan IV	N00019-22-C-0067 / 01	Raytheon Company	Development
AIM-9X Block II Lots 18-20 Production	N00019-18-C-1068 / 01	Raytheon Company	Production
AIM-9X Block II Lots 21-23	N00019-21-C-0723 / 01	Raytheon Company	Production
AIM-9X Sustainment SY20-24	N00019-19-D-0023 / 01	Raytheon Company	Sustainment

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

Contract Number:	N00019-15-C-0121	Order Number:	-
Contract Title:	AIM-9X Block II System Improvement Plan III	Strategy:	-
CAGE:	15090 - Raytheon Company	Contracting Office:	NAVAIRSYSCOM
City, State/Province:	Tucson, AZ		
Effort Number:	01	Supported Phase:	Development
Type:	Cost Plus Fixed Fee	Award Date:	September 29, 2015
Latest Modification Date:	January 30, 2023	Definitization Date:	September 29, 2015
Latest Modification No.:	P00104	Work Start Date:	-
Technical Data Rights:	-		
Notes:	The CDRL includes CSDRs. This contract is more than 90% complete; therefore, this is the final report for this contract.		

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
264.8 264.8	343.4 340.3	315.0 322.3	-	-	-

Work Completed (%): 97.03%

Cost Variance (TY\$M): -28.2

Schedule Variance (TY\$M): -12.6

Factors Contributing to Cost Variance and Projected Effects on Program Costs

The unfavorable net change in the cost variance is driven by performance related to Guidance Systems and 10.X software development.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

The unfavorable net change in the schedule variance is driven by performance related to Guidance Systems, 10.X software development, and hardware testing (specifically Test Lot 19 Operations).

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

Contract Number:	N00019-20-C-0071	Order Number:	-
Contract Title:	AIM-9X Block II System Improvement Plan III Follow On	Strategy:	-
CAGE:	15090 - Raytheon Company	Contracting Office:	NAVAIRSYSCOM
City, State/Province:	Tucson, AZ		
Effort Number:	01	Supported Phase:	Development
Type:	Cost Plus Fixed Fee	Award Date:	September 10, 2020
Latest Modification Date:	January 2, 2024	Definitization Date:	September 10, 2020
Latest Modification No.:	P00028	Work Start Date:	-
Technical Data Rights:	None		
Notes:	The CDRL includes CSDRs.		

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
53.2 53.2	116.9 116.9	97.3 113.9	-	-	-

Work Completed (%): 69.18%
Cost Variance (TY\$M): -2.4
Schedule Variance (TY\$M): -1.9

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost variance is driven by software delays and supply chain issues.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule variance is driven by software delays and supply chain issues.

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

Contract Number:	N00019-22-C-0067	Order Number:	-
Contract Title:	AIM-9X Block II System Improvement Plan IV	Strategy:	-
CAGE:	15090 - Raytheon Company	Contracting Office:	NAVAIRSYSCOM
City, State/Province:	Tucson, AZ		
Effort Number:	01	Supported Phase:	Development

Type: Cost Plus Fixed Fee Award Date: September 30, 2022
 Latest Modification Date: December 29, 2023 Definitization Date: September 30, 2022
 Latest Modification No.: P00010 Work Start Date: -
 Technical Data Rights: -
 Notes: The CDRL includes CSDRs.

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
225.6	225.6	225.6	225.6	210.0	224.8	-	-	-

Work Completed (%): 16.66%
 Cost Variance (TY\$M): -4.8
 Schedule Variance (TY\$M): -6.4

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost variance is related to staffing issues driving delays in schedule execution. Staffing issues will continue until the SIP III contract is completed in 2025.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule variance is related to staffing issues driving delays in schedule execution. Staffing issues will continue until the SIP III contract is completed in 2025.

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

Contract Number: N00019-18-C-1068 Order Number: -
 Contract Title: AIM-9X Block II Lots 18-20 Strategy: -
 Production
 CAGE: 15090 - Raytheon Company Contracting Office: NAVAIRSYSCOM
 City, State/Province: Tucson, AZ
 Effort Number: 01 Supported Phase: Production
 Type: Cost Plus Fixed Fee Award Date: September 13, 2018
 Latest Modification Date: December 8, 2024 Definitization Date: April 15, 2019
 Latest Modification No.: P00042 Work Start Date: -
 Technical Data Rights: -
 Notes: The CDRL includes CSDRs. Cost and schedule variances are not reported for this contract, because an EVM waiver was granted by Office of the Assistant Secretary of the Navy (Research, Development and Acquisition) Deputy Assistant of the Navy (Acquisition and Procurement) on June 07, 2018 due to the utilization of other methods to monitor contract performance (i.e., a Cost and Software Data Reporting requirement).

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
20.3	-	1,338.2	-	1,338.2	1,338.2	-	3,198	2,697

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

Contract Number: N00019-21-C-0723 **Order Number:** -
Contract Title: AIM-9X Block II Lots 21-23 **Strategy:** -
CAGE: 15090 - Raytheon Company **Contracting Office:** NAVAIRSYSCOM
City, State/Province: Tucson, AZ

Effort Number: 01 **Supported Phase:** Production
Type: Cost Plus Fixed Fee **Award Date:** June 30, 2021
Latest Modification Date: December 14, 2023 **Definitization Date:** June 30, 2021
Latest Modification No.: P00016 **Work Start Date:** -
Technical Data Rights: -

Notes: The CDRL includes CSDRs. Cost and schedule variance is not reported for this contract, because an EVM waiver was granted via Deviation No. 20-N-904 dated 19 January 2020 signed by Office of the Assistant Secretary of the Navy (Research, Development and Acquisition) Deputy Assistant of the Navy (Acquisition and Procurement) due to the utilization of other methods to monitor contract performance (i.e., a Cost and Software Data Reporting requirement).

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
328.2 328.2	1,368.9 1,420.1	1,368.9 1,368.9	729	2,627	246

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

Contract Number: N00019-19-D-0023 **Order Number:** -
Contract Title: AIM-9X Sustainment SY20-24 **Strategy:** FAR 16.5: Indefinite Delivery
Definite Quantity
CAGE: 15090 - Raytheon Company **Contracting Office:** NAVAIRSYSCOM
City, State/Province: Tucson, AZ

Effort Number: 01 **Supported Phase:** Sustainment
Type: Firm-Fixed-Price **Award Date:** May 22, 2019
Latest Modification Date: January 31, 2024 **Definitization Date:** -
Latest Modification No.: P00019 **Work Start Date:** May 22, 2019
Technical Data Rights: None

Notes: The CDRL includes CSDRs. There is no Earned Value Management on this contract.

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
- 127.0	- 152.4	127.0 127.0	-	-	-

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

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	361	1,140
Date	6/30/2011	6/5/2014
Reference	Milestone C ADM	LRIP IV ADM
LRIP Period	FY 2011 - 2012	FY 2011 - 2014
Total Procurement Quantity	6,000	6,000
LRIP Percentage of Total	6.0%	19.0%

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

Per the AIM-9X/Block II Low Rate Initial Production Acquisition Decision Memorandum dated June 05, 2014, the program was authorized to exceed 10% LRIP threshold from 11% to 19%.

LRIP Notes

None

(U) Deliveries and Expenditures

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	37	21	56.8%
Appropriations (TY, \$M)	7,611.1	3,834.9	50.4%
Expenditures (TY, \$M)	7,611.1	3,364.3	44.2%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	11,635			
AIM-9X Block II		4,634	4,820	
Total	11,635	4,634	4,820	41.4%

Notes

Planned deliveries reflects contractual obligation for U.S. Navy and U.S. Air Force Tactical and Captive Air Training Missiles through March 2024. The delta between planned to date and actual is that Raytheon is delivering Lot 19, 20, and 21 missiles ahead of schedule.

(U) International Program Aspects

General Memo

All FMS AIM-9X Block II missiles (Lot 20 and prior) have been built and delivered (DD250) by Raytheon. Lot 18 FMS Block II+ missiles have also been built and delivered. Lot 19 FMS Block II+ missile builds will be complete by end of October 2024. There are no Lot 20 FMS Block II+ missiles ordered. Lot 21 Block II+ missile builds will be complete by end of February 2025. As of October 2023, FMS Block II+ missiles will no longer be available in Lot 26 and beyond, unless a minimum 100 Block II+ quantity requirement, in consecutive lots, is met.

Exportability and Business Issues

FMS Operational Flight Software (OFS) 9.15x fielded in June 2022 introducing the fifth generation Infrared (IR) missile capabilities of Lock-On-After Launch (LOAL) and Weapons Data Link (WDL). As of March 2024, 8 out of the 20 countries operating with OFS 9.05x have had their entire Block II missile inventories (AIM-9X-2/-3) programmed with OFS 9.15x. OFS 9.15x world-wide programming is scheduled to complete by mid-2026. Additionally, Raytheon continues the development of FMS OFS 10.15x, which is scheduled to field with Lot 23 FMS missiles (AIM-9X-4/-5). OFS 10.15x is a re-host of OFS 9.15x, and will also introduce the Surface Launch capability.

Is design for international exportability planned?	Yes	Industry/Partner Exportability Cost-Sharing?	No
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Program Protection: Technology Security and Foreign Disclosure Issues

As of January 2023, Navy International Programs Office (NIPO) published the latest and most current United States Navy (USN) AIM-9X Policy, Technology Transfer and Security Assistance Review Board (TTSARB) 23-05, which replaces TTSARB 12-02-FDD-01. Additionally, National Disclosure Policy Committee (NDPC) decided to remove/cancel PS-01-18, and instead, decreed that any National Policy level guidance with regard to AIM-9X will defer to National Disclosure Policy (NDP) NDP-1 and the December 17, 2020 Low Observable/Counter Low Observable (LO/CLO) Executive Committee (EXCOM) Decision Memo (DM).

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY\$M)
1/23/2024	FMS LOA	SZ-P-LAY	Switzerland (SZ)	87	-
11/29/2023	FMS LOA	CN-P-LKZ	Canada (CN)	90	24.8
11/16/2023	FMS LOA	FI-P-AAT	Finland (FI)	40	-
11/2/2023	FMS LOA	PL-P-AAV-A2	Poland (PL)	24	-
1/5/2023	FMS LOA	DE-P-AEF	Denmark (DE)	20	-
12/28/2022	FMS LOA	TW-P-ALP	Taiwan (TW)	100	-
12/22/2022	FMS LOA	GY-P-ALE	Germany (GY)	105	-

11/1/2022	FMS LOA	BE-P-ADB	Belgium (BE)	8	2.3
11/1/2022	FMS LOA	JO-P-AAQ	Jordan (JO)	20	8.7
10/31/2022	FMS LOA	IT-P-ALA	Italy (IT)	16	6.9
10/31/2022	FMS LOA	BU-P-AAH	Bulgaria (BU)	28	11.8
10/17/2022	FMS LOA	NE-P-AGM	Netherlands (NE)	65	32.6
9/28/2022	FMS LOA	PT-P-ADG	Portugal (PT)	18	7.1
9/22/2022	FMS LOA	NE-P-AGJ-A1	Netherlands (NE)	50	23.8
6/17/2022	FMS LOA	FI-P-AAS	Finland (FI)	132	60.5
12/9/2021	FMS LOA	BU-P-AAD-A1	Bulgaria (BU)	3	1.3
11/19/2021	FMS LOA	IT-P-AKZ	Italy (IT)	38	17.2
10/28/2021	FMS LOA	IS-P-AUH-A3	Israel (IS)	6	2.9
12/24/2020	FMS LOA	RO-P-AAJ	Romania (RO)	39	16.7
12/9/2020	FMS LOA	KS-P-AMV	Korea (Seoul) (KS)	115	49.2
11/30/2020	FMS LOA	KU-P-ABO	Kuwait (KU)	10	4.1
11/15/2020	FMS LOA	BA-P-AAX-A1	Bahrain (BA)	20	4.5
10/23/2020	FMS LOA	DE-P-AEE	Denmark (DE)	20	4.5
12/19/2019	FMS LOA	BA-P-AAX	Bahrain (BA)	32	13.6
11/27/2019	FMS LOA	NE-P-AGJ	Netherlands (NE)	23	9.8
9/27/2019	FMS LOA	PL-P-AAV	Poland (PL)	121	48.9
8/12/2019	FMS LOA	BU-P-AAD	Bulgaria (BU)	20	6.9
5/16/2019	FMS LOA	IS-P-AUH	Israel (IS)	35	12.8
12/12/2018	FMS LOA	LO-P-LAH	Slovak Republic (LO)	108	43.3
11/27/2018	FMS LOA	JA-P-ATE	Japan (JA)	26	10.5
10/31/2018	FMS LOA	MO-P-AAK	Morocco (MO)	50	15.5
8/28/2018	FMS LOA	AE-P-ABJ	United Arab Emirates (AE)	340	151.0
5/23/2018	FMS LOA	DE-P-AEC	Denmark (DE)	16	8.6
12/14/2017	FMS LOA	NE-P-AGE-A3	Netherlands (NE)	17	12.0
9/24/2017	FMS LOA	KS-P-AMA	Korea (Seoul) (KS)	60	23.9
6/16/2017	FMS LOA	QA-P-AAG	Qatar (QA)	240	92.2
12/16/2016	FMS LOA	RO-P-AAA	Romania (RO)	34	12.8
11/28/2016	FMS LOA	BE-D-QBA	Belgium (BE)	3	1.3
7/11/2016	FMS LOA	AT-P-AYY	Australia (AT)	192	85.3
6/8/2016	FMS LOA	NE-P-AGE	Netherlands (NE)	71	20.2
5/4/2016	FMS LOA	ID-P-AAU	Indonesia (ID)	34	10.2
12/22/2015	FMS LOA	AT-P-AYW	Australia (AT)	32	10.4
12/11/2015	FMS LOA	JA-P-ASL	Japan (JA)	10	2.9
12/10/2015	FMS LOA	TK-P-AHX-A6	Turkey (TK)	18	3.6
11/25/2015	FMS LOA	NO-P-AHV	Norway (NO)	120	47.9
10/30/2015	FMS LOA	KS-P-ALE	Korea (Seoul) (KS)	72	29.4
9/10/2015	FMS LOA	TW-D-QBZ	Taiwan (TW)	85	27.0
2/9/2015	FMS LOA	AT-P-AZT	Australia (AT)	78	17.7

12/1/2014	FMS LOA	JA-P-LZB	Japan (JA)	9	4.4
8/27/2014	FMS LOA	KS-P-ALC	Korea (Seoul) (KS)	78	37.8
1/6/2014	FMS LOA	BE-P-ACX	Belgium (BE)	60	24.6
12/18/2013	FMS LOA	SN-P-ADF	Singapore (SN)	28	9.4
9/3/2013	FMS LOA	TK-P-AHX-A5	Turkey (TK)	117	45.7
3/11/2013	FMS LOA	MU-P-LAO	Oman (MU)	74	20.7
2/28/2013	FMS LOA	KU-P-ABI	Kuwait (KU)	99	29.1
5/29/2012	FMS LOA	MF-P-AAD	Malaysia (MF)	28	8.0
12/22/2011	FMS LOA	SR-D-SAI	Saudi Arabia (SR)	154	67.7
12/20/2011	FMS LOA	KS-P-AKR	Korea (Seoul) (KS)	19	9.0

(U) Agreement Information

Partner(s): Switzerland (SZ) Activity Date: 1/23/2024
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: SZ-P-LAY
 Notes: FY2024 funding is to be determined.

Switzerland (SZ)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	87
Total	-	87

(U) Agreement Information

Partner(s): Canada (CN) Activity Date: 11/29/2023
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: CN-P-LKZ
 Notes: FY2024 funding is to be determined.

Canada (CN)		
Fiscal Year	Funding (TY\$M)	Quantity
2021	24.8	76
2024	-	14
Total	24.8	90

(U) Agreement Information

Partner(s): Finland (FI) Activity Date: 11/16/2023
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: FI-P-AAT
 Notes: FY2024 funding is to be determined.

Finland (FI)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	40
Total	-	40

(U) Agreement Information

Partner(s): Poland (PL) Activity Date: 11/2/2023

Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: FY2024 funding is to be determined.

Agreement Number: PL-P-AAV-A2

Poland (PL)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	24
Total	-	24

(U) Agreement Information

Partner(s): Denmark (DE)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: FY2024 funding is to be determined.

Activity Date: 1/5/2023
Agreement Number: DE-P-AEF

Denmark (DE)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	20
Total	-	20

(U) Agreement Information

Partner(s): Taiwan (TW)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: FY2024 funding is to be determined.

Activity Date: 12/28/2022
Agreement Number: TW-P-ALP

Taiwan (TW)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	100
Total	-	100

(U) Agreement Information

Partner(s): Germany (GY)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: FY2024 and FY2025 funding is to be determined.

Activity Date: 12/22/2022
Agreement Number: GY-P-ALE

Germany (GY)		
Fiscal Year	Funding (TY\$M)	Quantity
2024	-	60
2025	-	45
Total	-	105

(U) Agreement Information

Partner(s): Belgium (BE)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Activity Date: 11/1/2022
Agreement Number: BE-P-ADB

Belgium (BE)		
Fiscal Year	Funding (TY\$M)	Quantity

Belgium (BE)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	2.3	8
Total	2.3	8

(U) Agreement Information

Partner(s): Jordan (JO) Activity Date: 11/1/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: JO-P-AAQ
 Notes: None

Jordan (JO)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	8.7	20
Total	8.7	20

(U) Agreement Information

Partner(s): Italy (IT) Activity Date: 10/31/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: IT-P-ALA
 Notes: LOA Amendment #2 was received on July 12, 2023 requesting 16 Tactical II+ and 4 Captive Air Training Missiles (CATMs).

Italy (IT)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	6.9	16
Total	6.9	16

(U) Agreement Information

Partner(s): Bulgaria (BU) Activity Date: 10/31/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BU-P-AAH
 Notes: None

Bulgaria (BU)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	11.8	28
Total	11.8	28

(U) Agreement Information

Partner(s): Netherlands (NE) Activity Date: 10/17/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NE-P-AGM
 Notes: None

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	32.6	65
Total	32.6	65

(U) Agreement Information

Partner(s): Portugal (PT) Activity Date: 9/28/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: PT-P-ADG
 Notes: None

Portugal (PT)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	7.1	18
Total	7.1	18

(U) Agreement Information

Partner(s): Netherlands (NE) Activity Date: 9/22/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NE-P-AGJ-A1
 Notes: None

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	23.8	50
Total	23.8	50

(U) Agreement Information

Partner(s): Finland (FI) Activity Date: 6/17/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: FI-P-AAS
 Notes: None

Finland (FI)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	60.5	132
Total	60.5	132

(U) Agreement Information

Partner(s): Bulgaria (BU) Activity Date: 12/9/2021
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BU-P-AAD-A1
 Notes: None

Bulgaria (BU)		
Fiscal Year	Funding (TY\$M)	Quantity
2022	1.3	3
Total	1.3	3

(U) Agreement Information

Partner(s): Italy (IT) Activity Date: 11/19/2021
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: IT-P-AKZ
 Notes: LOA Amendment 1 was received on July 12, 2023 requesting 12 Tactical II+ and 4 Captive Air Training Missiles (CATMs).

Italy (IT)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	17.2	38
Total	17.2	38

(U) Agreement Information

Partner(s): Israel (IS) Activity Date: 10/28/2021
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: IS-P-AUH-A3
 Notes: None

Israel (IS)		
Fiscal Year	Funding (TY\$M)	Quantity
2022	2.9	6
Total	2.9	6

(U) Agreement Information

Partner(s): Romania (RO) Activity Date: 12/24/2020
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: RO-P-AAJ
 Notes: None

Romania (RO)		
Fiscal Year	Funding (TY\$M)	Quantity
2022	16.7	39
Total	16.7	39

(U) Agreement Information

Partner(s): Korea (Seoul) (KS) Activity Date: 12/9/2020
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KS-P-AMV
 Notes: None

Korea (Seoul) (KS)		
Fiscal Year	Funding (TY\$M)	Quantity
2022	49.2	115
Total	49.2	115

(U) Agreement Information

Partner(s): Kuwait (KU) Activity Date: 11/30/2020
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KU-P-ABO
 Notes: None

Kuwait (KU)		
Fiscal Year	Funding (TY\$M)	Quantity
2021	4.1	10
Total	4.1	10

(U) Agreement Information

Partner(s): Bahrain (BA) Activity Date: 11/15/2020
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BA-P-AAX-A1
 Notes: None

Bahrain (BA)		
Fiscal Year	Funding (TY\$M)	Quantity
2021	4.5	20
Total	4.5	20

(U) Agreement Information

Partner(s): Denmark (DE) Activity Date: 10/23/2020
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: DE-P-AEE
 Notes: None

Denmark (DE)		
Fiscal Year	Funding (TY\$M)	Quantity
2021	4.5	20
Total	4.5	20

(U) Agreement Information

Partner(s): Bahrain (BA) Activity Date: 12/19/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BA-P-AAX
 Notes: None

Bahrain (BA)		
Fiscal Year	Funding (TY\$M)	Quantity
2020	13.6	32
Total	13.6	32

(U) Agreement Information

Partner(s): Netherlands (NE) Activity Date: 11/27/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NE-P-AGJ
 Notes: None

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
2020	9.8	23
Total	9.8	23

(U) Agreement Information

Partner(s): Poland (PL) Activity Date: 9/27/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: PL-P-AAV
 Notes: None

Poland (PL)		
Fiscal Year	Funding (TY\$M)	Quantity
2017	41.2	97
2020	7.7	24
Total	48.9	121

(U) Agreement Information

Partner(s): Bulgaria (BU) Activity Date: 8/12/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BU-P-AAD
 Notes: None

Bulgaria (BU)		
Fiscal Year	Funding (TY\$M)	Quantity
2020	6.9	20
Total	6.9	20

(U) Agreement Information

Partner(s): Israel (IS) Activity Date: 5/16/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: IS-P-AUH
 Notes: None

Israel (IS)		
Fiscal Year	Funding (TY\$M)	Quantity
2015	3.6	10
2018	8.8	24
2020	0.4	1
Total	12.8	35

(U) Agreement Information

Partner(s): Slovak Republic (LO) Activity Date: 12/12/2018
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: LO-P-LAH
 Notes: None

Slovak Republic (LO)		
Fiscal Year	Funding (TY\$M)	Quantity
2019	10.6	30
2020	17.0	40
2021	15.7	38
Total	43.3	108

(U) Agreement Information

Partner(s): Japan (JA) Activity Date: 11/27/2018
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: JA-P-ATE
 Notes: None

Japan (JA)		
Fiscal Year	Funding (TY\$M)	Quantity
2019	10.5	26
Total	10.5	26

(U) Agreement Information

Partner(s): Morocco (MO) Activity Date: 10/31/2018
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: MO-P-AAK
 Notes: None

Morocco (MO)		
Fiscal Year	Funding (TY\$M)	Quantity
2013	8.4	30
2014	-	2
2019	7.1	18
Total	15.5	50

(U) Agreement Information

Partner(s): United Arab Emirates (AE) Activity Date: 8/28/2018
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: AE-P-ABJ
 Notes: None

United Arab Emirates (AE)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	151.0	340
Total	151.0	340

(U) Agreement Information

Partner(s): Denmark (DE) Activity Date: 5/23/2018
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: DE-P-AEC
 Notes: None

Denmark (DE)		
Fiscal Year	Funding (TY\$M)	Quantity
2019	8.6	16
Total	8.6	16

(U) Agreement Information

Partner(s): Netherlands (NE) Activity Date: 12/14/2017
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NE-P-AGE-A3
 Notes: None

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	12.0	17

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
Total	12.0	17

(U) Agreement Information

Partner(s): Korea (Seoul) (KS) Activity Date: 9/24/2017
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KS-P-AMA
 Notes: None

Korea (Seoul) (KS)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	23.9	60
Total	23.9	60

(U) Agreement Information

Partner(s): Qatar (QA) Activity Date: 6/16/2017
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: QA-P-AAG
 Notes: None

Qatar (QA)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	20.0	60
2019	38.1	100
2020	34.1	80
Total	92.2	240

(U) Agreement Information

Partner(s): Romania (RO) Activity Date: 12/16/2016
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: RO-P-AAA
 Notes: None

Romania (RO)		
Fiscal Year	Funding (TY\$M)	Quantity
2015	7.3	18
2017	5.5	16
Total	12.8	34

(U) Agreement Information

Partner(s): Belgium (BE) Activity Date: 11/28/2016
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: BE-D-QBA
 Notes: None

Belgium (BE)		
Fiscal Year	Funding (TY\$M)	Quantity
2017	1.3	3
Total	1.3	3

(U) Agreement Information

Partner(s): Australia (AT) Activity Date: 7/11/2016
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: AT-P-AYY
 Notes: None

Australia (AT)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	19.7	45
2019	35.2	81
2021	30.4	66
Total	85.3	192

(U) Agreement Information

Partner(s): Netherlands (NE) Activity Date: 6/8/2016
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NE-P-AGE
 Notes: None

Netherlands (NE)		
Fiscal Year	Funding (TY\$M)	Quantity
2014	15.7	50
2016	0.4	1
2017	4.1	20
Total	20.2	71

(U) Agreement Information

Partner(s): Indonesia (ID) Activity Date: 5/4/2016
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: ID-P-AAU
 Notes: None

Indonesia (ID)		
Fiscal Year	Funding (TY\$M)	Quantity
2017	10.2	34
Total	10.2	34

(U) Agreement Information

Partner(s): Australia (AT) Activity Date: 12/22/2015
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: AT-P-AYW
 Notes: None

Australia (AT)		
Fiscal Year	Funding (TY\$M)	Quantity
2016	5.0	20
2018	5.4	12
Total	10.4	32

(U) Agreement Information

Partner(s): Japan (JA) Activity Date: 12/11/2015
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: JA-P-ASL
 Notes: None

Japan (JA)		
Fiscal Year	Funding (TY\$M)	Quantity
2016	2.9	10
Total	2.9	10

(U) Agreement Information

Partner(s): Turkey (TK) Activity Date: 12/10/2015
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: TK-P-AHX-A6
 Notes: None

Turkey (TK)		
Fiscal Year	Funding (TY\$M)	Quantity
2016	3.6	18
Total	3.6	18

(U) Agreement Information

Partner(s): Norway (NO) Activity Date: 11/25/2015
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: NO-P-AHV
 Notes: None

Norway (NO)		
Fiscal Year	Funding (TY\$M)	Quantity
2016	14.5	50
2018	9.0	20
2019	24.4	50
Total	47.9	120

(U) Agreement Information

Partner(s): Korea (Seoul) (KS) Activity Date: 10/30/2015
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KS-P-ALE
 Notes: None

Korea (Seoul) (KS)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	2.1	10
2019	27.3	62
Total	29.4	72

(U) Agreement Information

Partner(s): Taiwan (TW) Activity Date: 9/10/2015

Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Agreement Number: TW-D-QBZ

Taiwan (TW)		
<u>Fiscal Year</u>	<u>Funding (TY\$M)</u>	<u>Quantity</u>
2016	25.1	80
2017	1.9	5
Total	27.0	85

(U) Agreement Information

Partner(s): Australia (AT)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Activity Date: 2/9/2015
Agreement Number: AT-P-AZT

Australia (AT)		
<u>Fiscal Year</u>	<u>Funding (TY\$M)</u>	<u>Quantity</u>
2016	4.0	20
2017	13.7	58
Total	17.7	78

(U) Agreement Information

Partner(s): Japan (JA)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Activity Date: 12/1/2014
Agreement Number: JA-P-LZB

Japan (JA)		
<u>Fiscal Year</u>	<u>Funding (TY\$M)</u>	<u>Quantity</u>
2015	4.4	9
Total	4.4	9

(U) Agreement Information

Partner(s): Korea (Seoul) (KS)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Activity Date: 8/27/2014
Agreement Number: KS-P-ALC

Korea (Seoul) (KS)		
<u>Fiscal Year</u>	<u>Funding (TY\$M)</u>	<u>Quantity</u>
2015	37.8	78
Total	37.8	78

(U) Agreement Information

Partner(s): Belgium (BE)
Type: Foreign Military Sales: Letter of Offer and Acceptance
Notes: None

Activity Date: 1/6/2014
Agreement Number: BE-P-ACX

Belgium (BE)		
Fiscal Year	Funding (TY\$M)	Quantity
2014	24.6	60
Total	24.6	60

(U) Agreement Information

Partner(s): Singapore (SN) Activity Date: 12/18/2013
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: SN-P-ADF
 Notes: None

Singapore (SN)		
Fiscal Year	Funding (TY\$M)	Quantity
2014	9.4	28
Total	9.4	28

(U) Agreement Information

Partner(s): Turkey (TK) Activity Date: 9/3/2013
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: TK-P-AHX-A5
 Notes: None

Turkey (TK)		
Fiscal Year	Funding (TY\$M)	Quantity
2014	45.7	117
Total	45.7	117

(U) Agreement Information

Partner(s): Oman (MU) Activity Date: 3/11/2013
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: MU-P-LAO
 Notes: None

Oman (MU)		
Fiscal Year	Funding (TY\$M)	Quantity
2013	20.7	74
Total	20.7	74

(U) Agreement Information

Partner(s): Kuwait (KU) Activity Date: 2/28/2013
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KU-P-ABI
 Notes: None

Kuwait (KU)		
Fiscal Year	Funding (TY\$M)	Quantity
2013	29.1	99
Total	29.1	99

(U) Agreement Information

Partner(s): Malaysia (MF) Activity Date: 5/29/2012
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: MF-P-AAD
 Notes: None

Malaysia (MF)		
Fiscal Year	Funding (TY\$M)	Quantity
2013	8.0	28
Total	8.0	28

(U) Agreement Information

Partner(s): Saudi Arabia (SR) Activity Date: 12/22/2011
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: SR-D-SAI
 Notes: None

Saudi Arabia (SR)		
Fiscal Year	Funding (TY\$M)	Quantity
2012	67.7	154
Total	67.7	154

(U) Agreement Information

Partner(s): Korea (Seoul) (KS) Activity Date: 12/20/2011
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: KS-P-AKR
 Notes: None

Korea (Seoul) (KS)		
Fiscal Year	Funding (TY\$M)	Quantity
2012	9.0	19
Total	9.0	19



UNCLASSIFIED

**Modernized
Selected Acquisition Report
Supplement**

**AIM-9X Block II Sidewinder
(AIM-9X Blk II)**

FY 2025 President's Budget
As of: 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

AIM-9X Block II Sidewinder

Short Name

AIM-9X Blk II

PNO

442

Lead Component

Navy

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

AIM-9X Block II

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

AIM-9X Block II Sidewinder

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

Major Software Efforts

Title	Status	Fielding Date	Description
OFS 9.5	Development		Software to provide incremental capability upgrades.
OFS 10.X	Development		Software to support redesigned hardware.
OFS 11.X	Development		Software to support redesigned hardware.

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
OFS 9.5			Software to provide incremental capability upgrades.
OFS 10.X			Software to support redesigned hardware.
OFS 11.X			Software to support redesigned hardware.

Funding Sources (Acquisition)

Acquisition Funding Notes

None

AIM-9X Block II Sidewinder

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	07	0207161N - Tactical AIM Missiles	0207161N	0457 - AIM-9X		
RDT&E	3600F	07	0207161F - Tactical AIM Missiles	0207161F	674132 - AIM-9 Product Improvement		
Procurement	1507N	02	2209 - Sidewinder	0204162N	-		
Procurement	1507N	02	2209 - Sidewinder	0206138M	-		
Procurement	3020F	02	M09HAI - Sidewinder (AIM-9X)	0207161F	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

None

AIM-9X Block II Sidewinder

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1D4D - Weapons Maintenance	0702207N	-		
O&M	3400F	01	011A - Primary Combat Forces	0207161F	-		
Procurement	1507N	06	6120 - Spares and Repair Parts	0204162N	-		

Acquisition Estimate and Quantity Summary**AIM-9X Block II Sidewinder****Acquisition Estimates**

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2011 (\$M)	CY2011 (\$M)	CY2024 (\$M)
RDT&E		1,036.9	836.8	836.8	1,139.4
Procurement		6,574.6	4,672.1	4,672.1	6,361.8
MILCON		-	-	-	-
O&M		-	-	-	-
Total Acquisition		7,611.5	5,508.9	5,508.9	7,501.2
PAUC		0.654	0.473	0.473	0.645
APUC		0.565	0.402	0.402	0.547

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
AIM-9X Block II		-	11,635
Total		-	11,635

Unit Description

Unit equals missile

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	666.8	78.4	66.3	29.3	29.0	29.9	30.5	107.0	1,036.9
Procurement	2,912.6	167.7	196.8	240.2	244.0	250.9	258.2	2,304.3	6,574.6
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	3,579.3	246.1	263.0	269.4	273.0	280.7	288.7	2,411.3	7,611.5

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

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 CY2011 (\$M)
Total		513.7	513.7	-	417.9
2004		1.280	1.3	0.877161	1.5
2005		3.930	3.9	0.900248	4.4
2006		7.740	7.7	0.928300	8.3
2007		6.710	6.7	0.951036	7.1
2008		0.470	0.5	0.968385	0.5
2009		5.360	5.4	0.980819	5.5
2010		0.012	0.0	0.995531	0.0
2011		0.910	0.9	1.019301	0.9
2012		8.440	8.4	1.036206	8.1
2013		17.920	17.9	1.047087	17.1
2014		16.488	16.5	1.061882	15.5
2015		36.400	36.4	1.075243	33.9
2016		37.053	37.1	1.095200	33.8
2017		54.678	54.7	1.115691	49.0
2018		34.063	34.1	1.143020	29.8
2019		36.444	36.4	1.165034	31.3
2020		19.140	19.1	1.207877	15.8
2021		5.720	5.7	1.262164	4.5
2022		23.300	23.3	1.328102	17.5
2023		33.000	33.0	1.367641	24.1
2024		36.439	36.4	1.398861	26.0
2025		31.400	31.4	1.428535	22.0
2026		13.140	13.1	1.458534	9.0
2027		12.512	12.5	1.489163	8.4
2028		12.819	12.8	1.520435	8.4
2029		13.100	13.1	1.552365	8.4
2030		8.334	8.3	1.584964	5.3
2031		7.130	7.1	1.618249	4.4
2032		7.891	7.9	1.652232	4.8
2033		5.130	5.1	1.686929	3.0
2034		6.927	6.9	1.722354	4.0
2035		5.510	5.5	1.758524	3.1
2036		0.808	0.8	1.795453	0.5
2037		0.831	0.8	1.833157	0.5
2038		0.855	0.9	1.871653	0.5
2039		0.880	0.9	1.910958	0.5
2040		0.905	0.9	1.951088	0.5

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

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 CY2011 (\$M)
Total		523.3	523.3	-	418.8
2004			-	0.873550	-
2005		5.148	5.1	0.895953	5.7
2006		10.860	10.9	0.922969	11.8
2007		3.320	3.3	0.947281	3.5
2008		5.471	5.5	0.966337	5.7
2009		5.506	5.5	0.979057	5.6
2010		3.747	3.7	0.991362	3.8
2011		7.000	7.0	1.010100	6.9
2012		7.900	7.9	1.027700	7.7
2013		6.000	6.0	1.045068	5.7
2014		12.376	12.4	1.059638	11.7
2015		28.820	28.8	1.070282	26.9
2016		26.015	26.0	1.086649	23.9
2017		36.199	36.2	1.109388	32.6
2018		36.299	36.3	1.132710	32.0
2019		29.042	29.0	1.153768	25.2
2020		10.012	10.0	1.183442	8.5
2021		18.779	18.8	1.239043	15.2
2022		31.863	31.9	1.305512	24.4
2023		33.365	33.4	1.351914	24.7
2024		41.958	42.0	1.386348	30.3
2025		34.862	34.9	1.416100	24.6
2026		16.114	16.1	1.445838	11.1
2027		16.444	16.4	1.476201	11.1
2028		17.039	17.0	1.507201	11.3
2029		17.377	17.4	1.538852	11.3
2030		13.136	13.1	1.571168	8.4
2031		10.421	10.4	1.604163	6.5
2032		12.493	12.5	1.637850	7.6
2033		7.170	7.2	1.672245	4.3
2034		10.871	10.9	1.707362	6.4
2035		7.673	7.7	1.743217	4.4

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

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 CY2011 (\$M)
Total	2,682.1	98.6	189.0	68.6	-	324.9	3,363.1	-	2,289.0
2004							-	0.894863	-
2005							-	0.919581	-
2006							-	0.942672	-
2007							-	0.963195	-
2008							-	0.978436	-
2009			0.928				0.9	0.992493	0.9
2010			11.365				11.4	1.009442	11.3
2011	36.919	5.419	-	1.186		6.800	50.3	1.028763	48.9
2012	29.894	1.627	5.992	0.758		10.108	48.4	1.044249	46.3
2013	50.791	2.645	3.628	1.450		12.000	70.5	1.059088	66.6
2014	78.438	3.064	0.196	1.636		14.103	97.4	1.073831	90.7
2015	54.222	3.565	-	1.221		6.100	65.1	1.091348	59.7
2016	75.140	1.737	0.548	1.884		6.700	86.0	1.111851	77.4
2017	57.334	4.626	3.639	0.138		7.109	72.8	1.135925	64.1
2018	64.201	2.756	0.018	3.208		7.521	77.7	1.167121	66.6
2019	103.543	2.389	5.545	2.223		9.812	123.5	1.201388	102.8
2020	137.711	3.188	0.954	3.280		7.400	152.5	1.249046	122.1
2021	86.644	2.452	4.139	1.785		11.148	106.2	1.306042	81.3
2022	58.011	2.525	11.656	2.027		6.414	80.6	1.357050	59.4
2023	50.933	2.581	140.344	1.168		7.545	202.6	1.392144	145.5
2024	56.563	2.720		1.692		9.022	70.0	1.422709	49.2
2025	73.817	2.991		1.577		9.215	87.6	1.452734	60.3
2026	95.357	3.207		2.265		9.401	110.2	1.483242	74.3
2027	96.928	3.229		2.068		9.600	111.8	1.514390	73.8
2028	100.438	3.295		2.301		9.800	115.8	1.546192	74.9
2029	102.554	3.380		4.537		10.005	120.5	1.578662	76.3
2030	104.694	3.464		2.650		10.215	121.0	1.611814	75.1
2031	106.906	3.524		2.706		10.430	123.6	1.645662	75.1
2032	109.149	3.599		2.763		10.649	126.2	1.680221	75.1
2033	111.440	3.677		2.821		10.900	128.8	1.715505	75.1
2034	113.778	3.756		2.880		11.101	131.5	1.751531	75.1
2035	116.192	3.810		2.941		11.334	134.3	1.788313	75.1
2036	113.839	3.729		2.882		16.525	137.0	1.825868	75.0
2037	116.228	3.810		2.942		16.900	139.9	1.864211	75.0
2038	117.794	3.819		2.982		18.172	142.8	1.903359	75.0
2039	123.335	3.920		3.122		15.465	145.8	1.943330	75.0
2040	139.295	4.080		3.526		23.358	170.3	1.984140	85.8

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

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

3020F - Missile Procurement, Air Force									
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 CY2011 (\$M)
Total	2,774.3	109.4	50.6	73.0	-	204.3	3,211.5	-	2,383.2
2004							-	0.880847	-
2005							-	0.905909	-
2006							-	0.932061	-
2007							-	0.955476	-
2008							-	0.972889	-
2009			1.856				1.9	0.986760	1.9
2010			14.185				14.2	1.000736	14.2
2011	48.664	4.492	0.603	1.402		10.410	65.6	1.021356	64.2
2012	60.681	7.835	6.045	1.659		10.362	86.6	1.038415	83.4
2013	50.627	2.592	4.161	1.593		14.900	73.9	1.062332	69.5
2014	78.235	3.235	2.939	1.650		18.231	104.3	1.078008	96.7
2015	124.296	3.900	-	1.717		0.925	130.8	1.091232	119.9
2016	189.122	2.693	-	0.604		6.432	198.9	1.112359	178.8
2017	110.860	3.863	10.768	7.684		1.948	135.1	1.140631	118.5
2018	115.874	4.152	-	2.929		4.600	127.6	1.169084	109.1
2019	109.211	4.458	-	2.761		4.600	121.0	1.203133	100.6
2020	145.197	4.983	0.800	0.234		4.309	155.5	1.249887	124.4
2021	99.624	4.556	8.728	1.861		6.900	121.7	1.306296	93.1
2022	93.186	3.415	0.500	2.659		5.427	105.2	1.355356	77.6
2023	208.645	4.996		3.546		7.214	224.4	1.390325	161.4
2024	84.410	3.885		2.023		7.348	97.7	1.421387	68.7
2025	95.208	4.354		2.075		7.539	109.2	1.451443	75.2
2026	115.591	4.550		2.098		7.700	129.9	1.481923	87.7
2027	117.544	4.642		2.134		7.900	132.2	1.513044	87.4
2028	120.061	4.752		2.179		8.024	135.0	1.544818	87.4
2029	122.538	4.748		2.223		8.192	137.7	1.577259	87.3
2030	124.917	4.907		4.505		8.400	142.7	1.610381	88.6
2031	127.425	4.988		4.691		8.540	145.6	1.644199	88.6
2032	129.958	5.094		4.890		8.719	148.7	1.678727	88.6
2033	132.541	5.203		5.073		8.902	151.7	1.713981	88.5
2034	135.176	5.314		5.285		9.100	154.9	1.749974	88.5
2035	34.681	1.799		5.481		17.635	59.6	1.786724	33.4

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

1507N - Weapons Procurement, Navy				
fiscal year	AIM-9X Block II			Total
Total	5,326			5,326
2010				-
2011	63			63
2012	69			69
2013	150			150
2014	216			216
2015	156			156
2016	207			207
2017	152			152
2018	193			193
2019	305			305
2020	404			404
2021	228			228
2022	138			138
2023	122			122
2024	120			120
2025	157			157
2026	208			208
2027	191			191
2028	192			192
2029	199			199
2030	201			201
2031	186			186
2032	186			186
2033	187			187
2034	187			187
2035	174			174
2036	153			153
2037	148			148
2038	137			137
2039	140			140
2040	157			157

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AIM-9X Block II Sidewinder

3020F - Missile Procurement, Air Force				
fiscal year	AIM-9X Block II			Total
Total	6,309			6,309
2010				-
2011	106			106
2012	127			127
2013	150			150
2014	225			225
2015	333			333
2016	531			531
2017	313			313
2018	322			322
2019	272			272
2020	448			448
2021	292			292
2022	220			220
2023	497			497
2024	192			192
2025	205			205
2026	240			240
2027	240			240
2028	244			244
2029	216			216
2030	236			236
2031	215			215
2032	214			214
2033	214			214
2034	214			214
2035	43			43

Nuclear Costs

AIM-9X Block II Sidewinder

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

AIM-9X Block II Sidewinder

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

System: AIM-9X Blk II

Fielding and Inventory Notes

Department of the Navy: All missiles delivered from production are shipped to wholesale stock points as directed by NAVSUPSYSCOM Ammunition Logistics Center (NALC). Load plans and allowances for field activities are fulfilled by NALC from wholesale stock points. Current fielding quantity is classified IAW SCG ID# 03-035.6. USAF: The inventory number reflects serviceable inventory that is shipped from factory or depot as directed by Air Combat Command Operations Directorate (ACC/A3). Starting in FY26, 9X-2s will no longer be procured with the release of 9X-4. Not enough data is known about the 9X-

AIM-9X Blk II Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024	397		48	1	348
2025	181		44	1	484
2026	480		44	1	919
2027	209		44	3	1,081
2028	235		44	3	1,269
2029	315		44	3	1,537

O&S Independent Cost Estimate

AIM-9X Block II Sidewinder

Independent and Current Cost Estimate Comparison

Category	CY2011 (\$M)	Independent Cost Estimate 6/14/2023	Current Estimate 1/30/2024	Variance with ICE (%)
Unit-Level Manpower				-
Unit Operations				-
Maintenance		534.0	631.9	18%
Sustaining Support		401.5	413.4	3%
Continued System Improvements		134.6	121.7	-10%
Other				-
Total O&S		1,070.1	1,167.0	9%

Independent Cost Estimate Source

Event: SR-ICE
 Type: Independent Cost Estimate
 Approved by: Director, Cost Assessment & Program Evaluation, June 14, 2023

Current Cost Estimate Source

Type: Program Office Estimate
 Approved by: OSD Cost Assessment & Program Evaluation, January 30, 2024

Cost Estimate Variance Explanation

Maintenance and Sustaining Support costs increased from additional years added to the procurement schedule which in turn added additional years of maintenance and sustaining support costs to the program. Continuing System Improvements costs decreased as the program is fixing more missiles versus scrapping some missiles and the actual cost of software support was less than estimated.

Annual Operating and Support Estimates by Cost Element

AIM-9X Block II Sidewinder

System: AIM-9X Blk II

Source for TY-CY Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 13 Mar 2023

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 CY2011 (\$M)
Total	-	-	631.9	413.4	121.7	-	1,167.0
2011				0.272			0.3
2012				0.251			0.3
2013			0.163	0.356	0.063		0.6
2014			0.437	0.548	0.116		1.1
2015			2.975	1.271	1.023		5.3
2016			2.178	3.282	1.142		6.6
2017			4.567	4.282	1.619		10.5
2018			8.777	4.645	1.920		15.3
2019			7.028	5.438	2.311		14.8
2020			8.260	5.582	5.169		19.0
2021			6.801	6.719	3.070		16.6
2022			8.494	8.466	2.006		19.0
2023			9.374	7.332	1.419		18.1
2024			12.941	7.374	2.535		22.9
2025			13.542	7.662	2.535		23.7
2026			13.929	7.833	2.535		24.3
2027			14.317	8.003	2.535		24.9
2028			14.707	8.168	2.535		25.4
2029			15.059	8.319	2.535		25.9
2030			15.442	8.465	2.535		26.4
2031			16.342	8.596	2.535		27.5
2032			16.539	8.711	2.535		27.8
2033			16.695	8.807	2.535		28.0
2034			16.884	8.896	2.535		28.3
2035			16.896	8.972	2.535		28.4
2036			16.973	9.038	2.535		28.5
2037			19.168	9.096	2.535		30.8
2038			19.035	9.138	2.535		30.7
2039			18.974	9.173	2.535		30.7
2040			18.912	9.203	2.535		30.7
2041			18.636	9.221	2.535		30.4
2042			18.322	9.229	2.535		30.1
2043			18.294	9.234	2.535		30.1

System: AIM-9X Blk II

Source for TY-CY Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 13 Mar 2023

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 CY2011 (\$M)
2044			17.983	9.250	2.535		29.8
2045			17.570	9.268	2.535		29.4
2046			17.017	9.282	2.535		28.8
2047			16.497	9.288	2.535		28.3
2048			15.696	9.275	2.535		27.5
2049			15.070	9.275	2.535		26.9
2050			14.549	9.275	2.535		26.4
2051			14.132	9.277	2.535		25.9
2052			13.295	9.262	2.535		25.1
2053			12.669	9.262	2.535		24.5
2054			12.148	9.268	2.535		24.0
2055			11.453	9.244	2.535		23.2
2056			11.002	9.254	2.535		22.8
2057			10.556	9.272	2.535		22.4
2058			6.795	9.309	2.535		18.6
2059			6.691	9.379	2.535		18.6
2060			6.551	9.546	2.535		18.6
2061			6.446	9.732	2.535		18.7
2062			6.376	9.734	2.535		18.6
2063			2.185	4.771	0.595		7.6
2064			2.185	4.792	0.595		7.6
2065			2.185	4.844	0.595		7.6
2066			2.185		0.595		2.8
2067					0.595		0.6