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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	597.382	32.986	36.439	31.359	-	31.359	13.140	12.512	12.819	13.086	84.379	834.102
0457: <i>AIM-9X</i>	597.382	32.986	36.439	31.359	-	31.359	13.140	12.512	12.819	13.086	84.379	834.102

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 442

A. Mission Description and Budget Item Justification

The AIM-9X Block II Sidewinder (AIM-9X Blk II) continues the evolution of the AIM-9 series of missiles. This missile program delivers a launch and leave, air combat munition that uses passive Infrared (IR) energy to acquire and track enemy air targets and complements the radar guided Advanced Medium Range Air-to-Air Missile (AMRAAM). The missile provides fighter aircrew with the first shot, first kill opportunities that are essential for survival during air combat maneuvering in the visual arena. The AIM-9X delivers these opportunities with unmatched offensive and defensive capabilities against inner boundary threats, even when IR countermeasures are employed.

The AIM-9X also supports air superiority in the Beyond Visual Range air-to-air battle. Anti-tamper features have been incorporated to protect improvements inherent in this design. The AIM-9X Block II missile provides the Joint Force with fighter aircraft lethality and survivability necessary to counter threats identified in the Chief of Naval Operations Guidance and the National Defense Strategy.

AIM-9X is a Post Milestone C, Acquisition Category IC joint service program led by the Department of the Navy. The Block II program has completed independent operational testing and was found to be operationally effective and suitable. The program achieved Navy Initial Operational Capability in March 2015 and received Full Rate Production decision in August 2015.

This budget line item continues technical refresh of hardware and software and develops advanced capabilities to meet requirements of the Capability Production Document against evolving threat aircraft countermeasures.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate funding in the current or subsequent fiscal year.

Cost to Complete is \$84.379M for FY 2030 - FY 2040.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	29.236	36.439	32.968	-	32.968
Current President's Budget	32.986	36.439	31.359	-	31.359
Total Adjustments	3.750	0.000	-1.609	-	-1.609
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	4.585	0.000			
• SBIR/STTR Transfer	-0.835	0.000			
• Program Adjustments	0.000	0.000	-1.596	-	-1.596
• Rate/Misc Adjustments	0.000	0.000	-0.013	-	-0.013

Change Summary Explanation

Financial: FY 2025 was reduced by \$0.013M for minor adjustments and \$1.596M for higher priorities.

Technical:

The OFS 10.4X software development experienced delays as a result of sub-vendor development and prime contractor integration of the 2nd Generation System Secure Processor (SSP-2).

Schedule:

The AIM-9X program was directed to support a Ukraine Security Assistance Initiative in February of 2023 requiring development of an unplanned Operational Flight Software (OFS). This OFS development effort impacted the schedule for domestic OFS development efforts including 9.5X, 10.4X and 10.5X.

OFS 9.5X release has shifted from Q1 FY2024 to Q2 FY2025.

OFS 10.4X completion plan changed from Q4 FY2023 to Q2 FY2025 as a result of technical challenges referenced above as well as resource constraints resulting from the unplanned Ukraine OFS build. This schedule change also extends the SIP III contract to Q2 FY2025.

OFS 10.5X release shifted from Q4 FY2024 to Q1 FY2027 due to priority of OFS 9.5X and 10.4X and ability to strategically leverage development activities occurring under OFS 9.5X and 10.4X.

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / <i>AIM-9X</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
0457: <i>AIM-9X</i>	597.382	32.986	36.439	31.359	-	31.359	13.140	12.512	12.819	13.086	84.379	834.102
Quantity of RDT&E Articles		-	-	4	-	4	-	-	-	-		

Project MDAP/MAIS Code: 442

A. Mission Description and Budget Item Justification

The AIM-9X Block II Sidewinder (AIM-9X Blk II) delivers a launch and leave, air combat munition that uses passive Infrared energy to acquire and track enemy air targets that employ advanced infrared countermeasures and is a critical component of fighter aircraft loadout required by the Chief of Naval Operations Guidance and the National Defense Strategy.

This line item continues technical refresh of hardware and software and develops advanced capabilities to maintain threshold requirements. Primarily, the program will develop new hardware and software solutions to pace evolutions in threat aircraft countermeasure technology and redesign, develop, and integrate components facing obsolescence. Additionally, the program will investigate energetics improvements, enhanced anti-tamper and cyber security, and future platform integration. The program will deliver increased capability to the warfighter by incrementally fielding missile software updates to optimize hardware and incorporate capabilities based on updated intelligence of threat countermeasures.

In FY2025, the program will execute engineering, manufacturing, and development for the SIP III software effort and SIP IV hardware and software effort. Specifically, OFS 9.5X and 10.4X development efforts will complete. Development of OFS 10.5X and 11.5X will continue. The SIP IV hardware design and development of the advanced sensor and electronics unit will transition to qualification after completion of the Critical Design Review. In addition, the program will assess integration on 5th generation+ systems.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Product Development	30.282	34.062	28.938	0.000	28.938
Articles:	-	-	4	-	4
Description: Continuation of Primary Hardware Development/Pre-Planned Product Improvement (technical refresh) efforts for the AIM-9X weapon system. This includes systems engineering and program management, as well as support required to ensure AIM-9X missile integration with US Navy aircraft platforms. This also includes efforts to redesign Block II missile components to mitigate obsolescence, ensure producibility and increase reliability. It will incorporate anti-tamper and cyber security technology improvements, and address hardware and software improvements to facilitate follow-on capability.					
FY 2024 Plans:					

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / <i>AIM-9X</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Software development and test efforts, including OFS 9.5X, OFS 10.4X and 10.5X, will continue in support of existing AIM-9X Block II systems in order to ensure fielded assets continue to evolve to support required performance against increasingly challenging threat platforms. AIM-9X SIP-IV hardware efforts to develop an advanced sensor and upgrade the Electronics Unit will continue. Preliminary Design Review (PDR) for the SIP IV hardware is planned for FY 2024. In addition, development of OFS 11.5X will continue in order to facilitate the use of the updated SIP IV hardware.</p> <p>FY 2025 Base Plans: Software development and test efforts for OFS 9.5X and OFS 10.4 will complete. Software development and test efforts for OFS 10.5X will continue. The SIP IV sensor and Electronics Unit hardware development efforts will continue with Critical Design Review (CDR) planned for FY 2025. Software OFS 11.5X will continue development to take advantage of advanced sensor technology as part of the SIP IV program. Risk reduction efforts to address integration on 5th and 6th generation platforms as well as manned unmanned teaming will continue.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease in FY 2025 aligns with SIP IV requirements as the program completes detailed design and development and enters the design qualification stage.</p>					
<p>Title: Test and Evaluation Activities and Support</p> <p align="right">Articles:</p> <p>Description: Test and Evaluation (T&E) and associated governmental support required to ensure AIM-9X missile integration with threshold US Naval aircraft platforms (F/A-18A+/C/D/E/F). Conduct Developmental Testing (DT), Integration Testing (IT) and Operational Testing (OT) of OFS.</p> <p>FY 2024 Plans: Flight test in FY 2024 will focus on DT and IT of OFS 9.5X and OFS 10.4X. In addition, the program will be planning flight test for OFS 10.5X.</p> <p>FY 2025 Base Plans:</p>	2.487	2.155	2.196	0.000	2.196
	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / AIM-9X

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY2025 flight test will include DT/IT/OT for OFS 10.4X as well as DT planning and execution for OFS 10.5X and 11.5X. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase in FY 2025 is required to support flight testing associated with OFS 10.5X and OFS 11.5X					
Title: Management Services Articles: Description: Transportation and travel for AIM-9X efforts in support of the major test events and program decisions identified in the Product Development and Test and Evaluation sections above. FY 2024 Plans: Continue funding transportation and travel costs associated with AIM-9X missile program efforts supporting the major test events and program decisions identified in the Product Development and Test and Evaluation sections above. FY 2025 Base Plans: Continue funding transportation and travel costs associated with AIM-9X missile program efforts supporting the major test events and program decisions identified in the Product Development and Test and Evaluation sections above. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: The increase in FY 2025 Support funding reflects 2.0% inflation.	0.217 -	0.222 -	0.225 -	0.000 -	0.225 -
Accomplishments/Planned Programs Subtotals	32.986	36.439	31.359	0.000	31.359

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• WPN 2209: <i>Sidewinder</i>	201.402	78.165	86.023	-	86.023	107.965	109.755	113.532	115.939	1,452.636	3,652.040
• MPAF 3479: <i>Sidewinder</i>	220.855	95.643	107.101	-	107.101	127.838	130.045	132.837	135.479	918.593	3,283.612
• RDTE, AF 41: <i>Sidewinder</i>	33.365	41.958	34.862	-	34.862	16.114	16.444	17.039	17.377	67.931	531.876

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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

Milestone C decision for LRIP was held June 24, 2011. The program received DON Initial Operational Capability in March 2015 and Full Rate Production (FRP) approval in August 2015. The program awarded FRP-9 in June 2023 with FRP-10 scheduled to award in March 2024.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / <i>AIM-9X</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary Hardware & Software Development	SS/CPFF	Raytheon Missile Systems : Tucson, AZ	177.281	28.458	Feb 2023	32.203	Feb 2024	27.050	Feb 2025	-		27.050	48.040	313.032	160.725
Aircraft Integration - USG	WR	NAWCWD : China Lake, CA	25.928	0.261	Feb 2023	0.261	Feb 2024	0.261	Mar 2025	-		0.261	2.304	29.015	-
USG Systems Engineering & Project Management Support	WR	NAWC AD : Patuxent River, MD	3.124	0.537	Feb 2023	0.549	Feb 2024	0.558	Feb 2025	-		0.558	4.734	9.502	-
USG Systems Engineering & Project Management Support	WR	NAWCWD : China Lake, CA	23.992	1.026	Feb 2023	1.049	Feb 2024	1.069	Feb 2025	-		1.069	18.008	45.144	-
Prior Year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	267.484	0.000		0.000		0.000		-		0.000	0.000	267.484	-
Subtotal			497.809	30.282		34.062		28.938		-		28.938	73.086	664.177	N/A

Remarks
 FY 2025 funding decrease reflects the required effort to complete Critical Design Review and begin qualification of the design of the SIP IV sensor and electronics unit. The increase in FY 2025 USG Systems Engineering & Project Management support reflects 2.0% inflation.

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering Tech Support	Various	Various : Various	0.515	0.162	May 2023	0.166	May 2024	0.169	May 2025	-		0.169	0.676	1.688	-
Support	WR	NAWCWD : China Lake, CA	1.871	0.000		0.000		0.000		-		0.000	0.000	1.871	-
Support	WR	NSWCIH : Indian Head, MD	0.035	0.000		0.000		0.000		-		0.000	0.000	0.035	-
Support	C/CPFF	Raytheon : Tucson, AZ	0.605	0.000		0.000		0.000		-		0.000	0.000	0.605	-
Prior Year Support Costs	C/CPFF	Various : Various	2.374	0.000		0.000		0.000		-		0.000	0.000	2.374	-
Subtotal			5.400	0.162		0.166		0.169		-		0.169	0.676	6.573	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / AIM-9X
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Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			

Remarks
The increase in FY 2025 Support funding reflects 2.0% inflation.

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Operational Test & Evaluation (OT&E)	WR	COMOPTEVFOR : Norfolk, VA	15.765	0.452	Mar 2023	0.075	Mar 2024	0.075	Mar 2025	-		0.075	3.951	20.318	-
Operational Test & Evaluation (OT&E)	WR	NAWCWD : China Lake, CA	24.626	1.873	Mar 2023	1.914	Mar 2024	1.952	Mar 2025	-		1.952	3.129	33.494	-
Operational Test & Evaluation (OT&E)	WR	NAWCAD : Patuxent River, MD	0.446	0.000		0.000		0.000		-		0.000	0.000	0.446	-
Operational Test & Evaluation (OT&E)	WR	NSWCIH : Indian Head, MD	0.035	0.000		0.000		0.000		-		0.000	0.000	0.035	-
Prior Year Operational Test & Evaluation Not Funded FYDP (PYOT&E)	Various	Various : Various	40.382	0.000		0.000		0.000		-		0.000	0.000	40.382	-
Subtotal			81.254	2.325		1.989		2.027		-		2.027	7.080	94.675	N/A

Remarks
FY 2025 increase in NAWCWD funding reflects 2.0% inflation.

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Transportation - Material	WR	NAVAIR : Patuxent River, MD	1.048	0.081	Oct 2022	0.083	Oct 2023	0.084	Oct 2024	-		0.084	1.200	2.496	-
Travel - Obligation throughout the year	WR	NAWCAD : Patuxent River, MD	3.838	0.136	Oct 2022	0.139	Oct 2023	0.141	Oct 2024	-		0.141	2.337	6.591	-
Prior Year Mgmt cost no longer funded in the FYDP	Various	Various : Various	8.033	0.000		0.000		0.000		-		0.000	0.000	8.033	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			12.919	0.217		0.222		0.225		-		0.225	3.537	17.120	N/A

Remarks
The increase in FY 2025 management support funding reflects 2.0% inflation.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	597.382	32.986	36.439	31.359	-	31.359	84.379	782.545	N/A

Remarks

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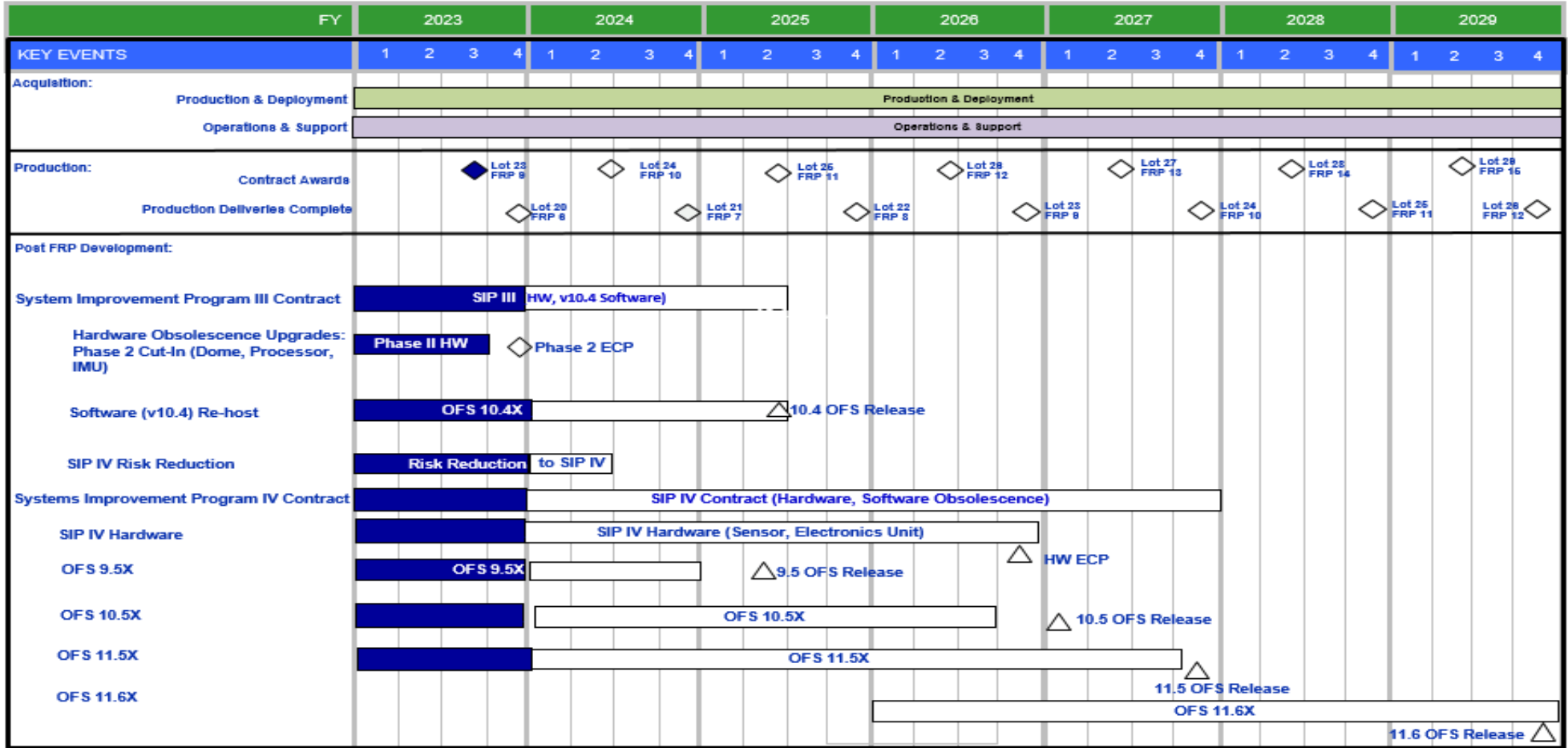
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy

Date: March 2024

Appropriation/Budget Activity
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PE 0207161N / Tactical Aim Missiles

Project (Number/Name)
0457 / AIM-9X



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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0207161N / <i>Tactical Aim Missiles</i>	Project (Number/Name) 0457 / AIM-9X
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TACTICAL AIM MISSILES				
Production Milestones - Block II: Contract Awards: Lot 23 (FRP 9)	3	2023	3	2023
Production Milestones - Block II: Contract Awards: Lot 24 (FRP 10)	2	2024	2	2024
Production Milestones - Block II: Contract Awards: Lot 25 (FRP 11)	2	2025	2	2025
Production Milestones - Block II: Contract Awards: Lot 26 (FRP 12)	2	2026	2	2026
Production Milestones - Block II: Contract Awards: Lot 27 (FRP 13)	2	2027	2	2027
Production Milestones - Block II: Contract Awards: Lot 28 (FRP 14)	2	2028	2	2028
Production Milestones - Block II: Contract Awards: Lot 29 (FRP 15)	2	2029	2	2029
Production Milestones - Block II: Production Deliveries Complete: Lot 20 (FRP 6)	4	2023	4	2023
Production Milestones - Block II: Production Deliveries Complete: Lot 21 (FRP 7)	4	2024	4	2024
Production Milestones - Block II: Production Deliveries Complete: Lot 22 (FRP 8)	4	2025	4	2025
Production Milestones - Block II: Production Deliveries Complete: Lot 23 (FRP 9)	4	2026	4	2026
Production Milestones - Block II: Production Deliveries Complete: Lot 24 (FRP 10)	4	2027	4	2027
Production Milestones - Block II: Production Deliveries Complete: Lot 25 (FRP 11)	4	2028	4	2028
Production Milestones - Block II: Production Deliveries Complete: Lot 26 (FRP 12)	4	2029	4	2029
AIM-9X Block II Tech Refresh: System Improvement Program III: SIP III (Hardware & v10.4 Software)	1	2023	2	2025
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: PII HW (IMU, Dome, Processor)	1	2023	3	2023
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: Phase 2 ECP	4	2023	4	2023
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.4) Rehost: Software v10.4 Development Testing	1	2023	2	2025

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy **Date:** March 2024

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.4) Rehost: v10.4 OFS Release	2	2025	2	2025
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: Risk Reduction to SIP IV	1	2023	2	2024
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: SIP IV Contract (Hardware, Software Obsolescence)	1	2023	4	2027
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: SIP IV Hardware (Sensor, Electronics Unit)	1	2023	4	2026
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: HW ECP	4	2026	4	2026
AIM-9X Block II Tech Refresh: OFS 9.5X: OFS 9.5X	1	2023	4	2024
AIM-9X Block II Tech Refresh: OFS 9.5X: 9.5X OFS Release	2	2025	2	2025
AIM-9X Block II Tech Refresh: OFS 10.5X: OFS 10.5X	1	2023	3	2026
AIM-9X Block II Tech Refresh: OFS 10.5X: 10.5 OFS Release	1	2027	1	2027
AIM-9X Block II Tech Refresh: OFS 11.5X: OFS 11.5X	1	2023	4	2027
AIM-9X Block II Tech Refresh: OFS 11.5X: 11.5 OFS Release	4	2027	4	2027
AIM-9X Block II Tech Refresh: OFS 11.6X: OFS 11.6X	1	2026	4	2029
AIM-9X Block II Tech Refresh: OFS 11.6X: 11.6X OFS Release	4	2029	4	2029