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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	568.394	5.715	23.881	29.236	-	29.236	33.470	25.818	12.458	12.622	0.000	711.594
0457: <i>AIM-9X</i>	568.394	5.715	23.881	29.236	-	29.236	33.470	25.818	12.458	12.622	0.000	711.594

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

A. Mission Description and Budget Item Justification

The AIM-9X Block II/II+ Sidewinder (AIM-9X Blk II/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 threats Within Visual Range (WVR), 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 (IOC) in March 2015 and received Full Rate Production decision in August 2015.

In December 2017, the program began to procure a third variant of the missile labeled the AIM-9X Block II PLUS (Block II+) to satisfy the requirements of the Joint Strike Fighter platform. For contracting purposes, the nomenclature of the AIM-9X Block II missile is identified as AIM-9X-2 or AIM-9X-4 and the AIM-9X Block II+ missile is identified as AIM-9X-3 or AIM-9X-5. The AIM-9X-4/5 variant are the Systems Improvement Program (SIP) III configuration with upgraded hardware for obsolescence that cut into Lot 21.

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.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	5.859	23.881	0.000	-	0.000
Current President's Budget	5.715	23.881	29.236	-	29.236
Total Adjustments	-0.144	0.000	29.236	-	29.236
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.144	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	29.236	-	29.236

Change Summary Explanation

Financial: FY 2023 funding request of \$29.236 million includes a reduction in the amount of \$0.378 million to account for prior year carryover.

Technical: N/A

Schedule: N/A

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy **Date:** April 2022

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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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
0457: AIM-9X	568.394	5.715	23.881	29.236	-	29.236	33.470	25.818	12.458	12.622	0.000	711.594
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 442

A. Mission Description and Budget Item Justification

The AIM-9X Block II/II+ Sidewinder (AIM-9X Blk II/II+) delivers a launch and leave, air combat munition that uses passive Infrared (IR) energy to acquire and track enemy air targets 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 insensitive munitions improvements and enhance anti-tamper and cyber security performance. The program software strategy is to incrementally field missile software improvements that take advantage of improved hardware and updated intelligence to deliver increased capability to the warfighter.

In FY23, the program will complete development and conduct test of a software rehost for the SIP III update that will enter production in Lot 21 as the AIM-9X-4/5 configurations. The program will execute Engineering, Manufacturing, and Development for the SIP IV hardware and software development effort. The FY23 hardware effort will include design and development of the advanced sensor and electronics unit. The FY23 software efforts will include OFS 9.5X development and test, OFS 10.5X development, and OFS 11.5X development.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Product Development	4.469	21.231	26.532	0.000	26.532
Articles:	-	-	-	-	-
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 threshold US Navy aircraft platforms. This also includes efforts to redesign Block II missile components to resolve obsolescence, ensure producibility and increase reliability beyond Lot 21. It will incorporate anti-tamper and cyber security technology improvements, implement cost reduction initiatives, and develop Insensitive Munitions (IM) technology improvements. In addition, the program will execute efforts that will address hardware and software improvements to facilitate follow-on capability and mitigate obsolescence.					
FY 2022 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>AIM-9X SIP III Phase 2 Hardware (HW) (IMU/ dome/ processor) ECP is planned to be completed in FY2022. SIP III 10.4 Software (SW) development and test will continue in FY22. Hardware and software risk reduction activities will continue in order to facilitate follow-on capability and obsolescence mitigation. This includes software development efforts in support of future OFS 9.X and 10.X releases. In addition, the AIM-9X SIP-IV contract will be awarded in FY2022 to address technical obsolescence in several missile sub-systems and maintain required performance against increasingly challenging threat platforms. In addition, software will be developed to facilitate the use of the updated hardware. In particular, FY2022 SIP-IV RDT&E funding will focus on the development of an advanced sensor replacement and electronic unit upgrades to address hardware obsolescence and processing improvement for the missile guidance system.</p> <p>FY 2023 Base Plans: AIM-9X SIP III 10.4 Software (SW) Engineering Change Proposal (ECP) is planned to be completed in FY2023. Software development and test efforts, including OFS 9.5X 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 FY23. In addition, OFS 11.5X will be developed to facilitate the use of the updated SIP IV hardware.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding increases in FY2023 due to the ramp up of SIP IV development efforts to support the preliminary design of the hardware as well as OFS 9.5X flight test efforts.</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 2022 Plans: Conduct flight testing of Software v10.4 to confirm re-host of software on SIP III processor hardware.</p> <p>FY 2023 Base Plans:</p>	1.014	2.438	2.487	0.000	2.487
	-	-	-	-	-

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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 / AIM-9X

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Flight test in FY2023 will focus on completion of OFS 10.4 SW. In addition, program will conduct DT and IT of OFS 9.5X. FY 2023 OCO Plans: N/A FY 2022 to FY 2023 Increase/Decrease Statement: Funding increases in FY2023 due to DT and IT of OFS 9.5X.					
Title: Management Services 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 2022 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 2023 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 2023 OCO Plans: N/A FY 2022 to FY 2023 Increase/Decrease Statement: Funding increases in FY2023 due to inflation.	0.232	0.212	0.217	0.000	0.217
Articles:	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	5.715	23.881	29.236	0.000	29.236

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• WPN 2209: <i>Sidewinder</i>	104.502	78.606	63.288	-	63.288	79.930	87.960	110.521	111.778	1,218.280	3,061.109
• MPAF 3479: <i>Sidewinder</i>	119.769	102.507	111.855	-	111.855	95.102	106.064	126.730	128.778	1,111.325	3,095.067
• RDTE, AF 41: <i>Sidewinder</i>	18.779	32.974	34.536	-	34.536	43.079	34.667	15.963	16.318	0.000	429.993

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</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 (IOC) in March 2015 and Full Rate Production (FRP) approval in August 2015. The program awarded FRP-7 in June 2021 with FRP-8 expected to award March 2022.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	157.635	3.960	Feb 2021	19.443	Feb 2022	24.708	Feb 2023	-		24.708	63.988	269.734	160.725
Aircraft Integration - USG	WR	NAWCWD : China Lake, CA	24.968	0.000	Feb 2021	0.256	Feb 2022	0.261	Feb 2023	-		0.261	1.024	26.509	-
USG Systems Engineering & Project Management Support	WR	NAWC AD : Patuxent River, MD	2.433	0.416	Feb 2021	0.526	Feb 2022	0.537	Feb 2023	-		0.537	2.104	6.016	-
USG Systems Engineering & Project Management Support	WR	NAWCWD : China Lake, CA	23.592	0.000	Feb 2021	1.006	Feb 2022	1.026	Feb 2023	-		1.026	8.000	33.624	-
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			476.112	4.376		21.231		26.532		-		26.532	75.116	603.367	N/A

Remarks
 The Primary Hardware & Software Development funding in FY 2023 reflects the reprogramming of procurement funding to incrementally fund the AIM-9X development activities associated with Systems Improvement Program (SIP) IV. Software development efforts for OFS 9.5X will increase in FY2023. In addition, preliminary design efforts for the advanced sensor and electronics unit upgrade will be the primary focus in FY2023. The increase in FY 2023 USG Systems Engineering & Project Management support reflects 2% inflation.

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	0.450	0.000	May 2021	0.159	May 2022	0.162	May 2023	-		0.162	0.640	1.411	-
Prior Year Support Costs	C/CPFF	Various : Various	2.374	0.000		0.000		0.000		-		0.000	0.000	2.374	-
Subtotal			2.824	0.000		0.159		0.162		-		0.162	0.640	3.785	N/A

Remarks
 The increase in FY 2023 Support funding reflects 2% inflation

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Oper Test & Eval	WR	COMOPTEVFOR : Norfolk, VA	15.661	0.104	Mar 2021	0.443	Mar 2022	0.452	Mar 2023	-		0.452	1.756	18.416	-
Oper Test & Eval (NAWC CL) (GOVT)	WR	NAWCWD : China Lake, CA	20.912	1.054	Mar 2021	1.836	Mar 2022	1.873	Mar 2023	-		1.873	6.000	31.675	-
Prior year T&E cost no longer funded in the FYDP	Various	Various : Various	40.382	0.000		0.000		0.000		-		0.000	0.000	40.382	-
Oper Test & Eval	WR	NSWCIH : Indian Head, MD	0.000	0.035	Aug 2021	0.000		0.000		-		0.000	0.000	0.035	-
Subtotal			76.955	1.193		2.279		2.325		-		2.325	7.756	90.508	N/A

Remarks
The increase in FY 2023 Test and Evaluation funding reflects 2% inflation.

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	0.828	0.100	Oct 2020	0.079	Oct 2021	0.081	Oct 2022	-		0.081	0.320	1.408	-
Travel - Obligation throughout the year	WR	NAWCAD : Patuxent River, MD	3.642	0.046	Oct 2020	0.133	Oct 2021	0.136	Oct 2022	-		0.136	0.536	4.493	-
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	-
Subtotal			12.503	0.146		0.212		0.217		-		0.217	0.856	13.934	N/A

Remarks
The increase in FY 2023 Management Services funding reflects 2% inflation.

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		568.394	5.715	23.881	29.236	29.236	84.368	711.594	N/A

Remarks

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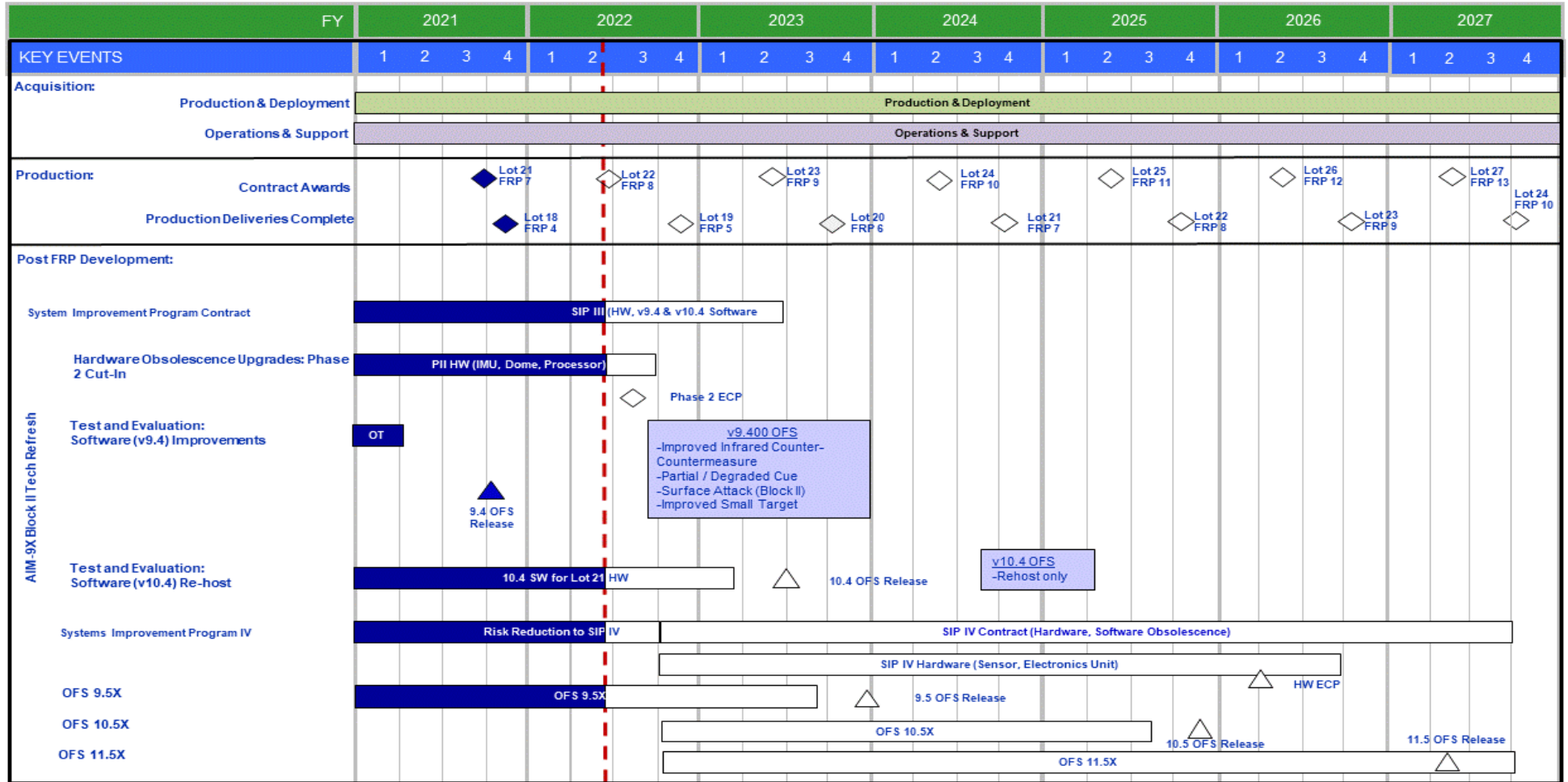
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0207161N / Tactical Aim Missiles

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



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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy **Date:** April 2022

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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 21 (FRP 7)	3	2021	3	2021
Production Milestones - Block II: Contract Awards: Lot 22 (FRP 8)	2	2022	2	2022
Production Milestones - Block II: Contract Awards: Lot 23 (FRP 9)	2	2023	2	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: Production Deliveries Complete: Lot 18 (FRP 4)	4	2021	4	2021
Production Milestones - Block II: Production Deliveries Complete: Lot 19 (FRP 5)	4	2022	4	2022
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
AIM-9X Block II Tech Refresh: System Improvement Program Contract: SIPIII (Hardware, v9.4 & v10.4 Software)	1	2021	2	2023
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: PII HW (IMU, Dome, Processor)	1	2021	3	2022
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: Phase 2 ECP	3	2022	3	2022
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Operational Test	1	2021	2	2021

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy **Date:** April 2022

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Software v9.4 Release	4	2021	4	2021
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.4) Rehost: Software v10.4 Development Testing	1	2021	1	2023
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.4) Rehost: v10.4 OFS Release	2	2023	2	2023
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: Risk Reduction to SIP IV	1	2021	4	2022
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: SIP IV Contract (Hardware, Software Obsolescence)	4	2022	3	2027
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: SIP IV Hardware (Sensor, Electronics Unit)	4	2022	3	2026
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: HW ECP	2	2026	2	2026
AIM-9X Block II Tech Refresh: OFS 9.5X: OFS 9.5X	1	2021	3	2023
AIM-9X Block II Tech Refresh: OFS 9.5X: 9.5 OFS Release	4	2023	4	2023
AIM-9X Block II Tech Refresh: OFS 10.5X: OFS 10.5X	4	2022	3	2025
AIM-9X Block II Tech Refresh: OFS 10.5X: 10.5 OFS Release	4	2025	4	2025
AIM-9X Block II Tech Refresh: OFS 11.5X: OFS 11.5X	4	2022	4	2027
AIM-9X Block II Tech Refresh: OFS 11.5X: 11.5 OFS Release	2	2027	2	2027