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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	574.109	23.273	29.236	36.439	-	36.439	32.968	13.289	12.670	12.996	0.000	734.980
0457: <i>AIM-9X</i>	574.109	23.273	29.236	36.439	-	36.439	32.968	13.289	12.670	12.996	0.000	734.980

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, 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.

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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	23.881	29.236	33.470	-	33.470
Current President's Budget	23.273	29.236	36.439	-	36.439
Total Adjustments	-0.608	0.000	2.969	-	2.969
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.608	0.000			
• Program Adjustments	0.000	0.000	2.798	-	2.798
• Rate/Misc Adjustments	0.000	0.000	0.171	-	0.171

Change Summary Explanation

Financial: The FY 2024 funding request was adjusted by \$2.969 million for higher priority efforts and rate adjustments.

Technical: The OFS 10.5X performance requirements were updated to align with an earlier delivery and fielding as indicated in the schedule. The software development associated with delta performance requirements, which were originally planned for OFS 10.5X, are still being developed on the same timeline; however that capability will be incorporated and fielded as part of OFS 11.5X.

Schedule: The SIP III Phase II Hardware ECP shifted from Q3 FY 2022 to Q3 FY 2023 in order to align with completion of the Application-Specific Integrated Circuit (ASIC) processor development. Software (v10.4) Development will transition from Operational Flight Software (OFS) 10.4X to OFS 10.5X in Q4 FY 2023. The OFS 10.5X development completion timeline, as well as the 10.5X OFS, has shifted left from Q3 2025 and Q4 2025, respectively, to Q4 2024. As a result of the shift in the OFS 10.5X timeline, there is no longer a need for a formal OFS 10.4X release, which has been removed from the schedule. SIP IV Risk Reduction was extended to facilitate transition to the SIP IV contract. The SIP IV contract was awarded in September 2022 which baselined the schedule and resulted in updates to the SIP IV HW ECP completion date from Q2 2026 to Q4 2026 and OFS 11.5X Release date from Q2 2027 to Q4 2027.

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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0457: AIM-9X	574.109	23.273	29.236	36.439	-	36.439	32.968	13.289	12.670	12.996	0.000	734.980
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 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 FY 2024, the program will execute engineering, manufacturing, and development for the SIP IV hardware and software development effort. The FY 2024 hardware effort will include design and development of the advanced sensor and electronics unit. FY 2024 software efforts will include completion of development and fielding of OFS 10.5X, and continued development of OFS 11.5X. In addition, the program will assess integration on 5th generation+ systems.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Product Development	17.321	26.532	34.062	0.000	34.062
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 US Navy aircraft platforms. This also includes efforts to redesign Block II missile components to resolve obsolescence, ensure producibility and increase reliability. It will incorporate anti-tamper and cyber security technology improvements, and implement cost reduction initiatives. In addition, the program will execute efforts that address hardware and software improvements to facilitate follow-on capability and mitigate obsolescence.					
FY 2023 Plans:					

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 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 2023. In addition, development of OFS 11.5X will continue in order to facilitate the use of the updated SIP IV hardware.</p> <p>FY 2024 Base Plans: OFS 10.5X will be released to the fleet, re-hosting existing software for use in hardware replaced for obsolescence. SIP IV sensor hardware efforts will continue to support required tracking performance against threat countermeasures. 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 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase in FY 2024 due to ramp up in development and integration efforts of the SIP IV hardware and software improvements to counter advanced threats. More specifically, detailed design of the sensor and Electronics Unit Circuit Card Assemblies will be performed as well as execution of preliminary software development builds of OFS 11.5X.</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 2023 Plans: Flight test in FY 2023 will focus on completion of OFS 10.4 SW. In addition, program will conduct DT and IT of OFS 9.5X.</p> <p>FY 2024 Base Plans:</p>	5.682	2.487	2.155	0.000	2.155
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
FY 2024 Flight test will focus on DT/IT flight test of OFS 10.5X as well as initial DT flight test of SIP IV hardware for verification and model development. OFS 9.5X Flight Test will also be completed in FY 2024. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease is due to a reduction in the number of flight tests associated with OFS 9.5 and OFS 10.5.					
Title: Management Services Articles:	0.270	0.217	0.222	0.000	0.222
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 2023 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 2024 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 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Funding increases due to inflation.	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	23.273	29.236	36.439	0.000	36.439

C. Other Program Funding Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• WPN 2209: <i>Sidewinder</i>	78.606	62.288	78.165	-	78.165	85.997	107.953	109.709	113.460	1,189.132	3,136.056
• MPAF 3479: <i>Sidewinder</i>	102.507	111.855	95,643.000	-	95,643.000	106.898	127.649	129.845	132.615	990.700	98,657.775
• RDTE, AF 41: <i>Sidewinder</i>	32.974	34.536	43.079	-	43.079	34.667	15.963	16.318	16.889	67.931	514.813

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</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-8 in March 2022 with FRP-9 scheduled to award in March 2023.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	161.595	15.686	Feb 2022	24.708	Feb 2023	32.203	Feb 2024	-		32.203	186.399	420.591	160.725
Aircraft Integration - USG	WR	NAWCWD : China Lake, CA	24.968	0.960	Feb 2022	0.261	Feb 2023	0.261	Feb 2024	-		0.261	2.304	28.754	-
USG Systems Engineering & Project Management Support	WR	NAWC AD : Patuxent River, MD	2.849	0.275	Feb 2022	0.537	Feb 2023	0.549	Feb 2024	-		0.549	4.734	8.944	-
USG Systems Engineering & Project Management Support	WR	NAWCWD : China Lake, CA	23.592	0.400	Feb 2022	1.026	Feb 2023	1.049	Feb 2024	-		1.049	18.008	44.075	-
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			480.488	17.321		26.532		34.062		-		34.062	211.445	769.848	N/A

Remarks
 The Primary Hardware & Software Development funding in FY 2024 reflects the reprogramming of procurement funding to incrementally fund the AIM-9X development activities associated with Systems Improvement Program (SIP) IV. FY 2024 funding increase reflects the ramp up of development and integration efforts of the SIP IV sensor and electronics unit. The increase in FY 2024 USG Systems Engineering & Project Management support reflects 2.2% inflation.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	0.065	May 2022	0.162	May 2023	0.166	May 2024	-		0.166	1.440	2.283	-
Support	WR	NAWCWD : China Lake, CA	0.000	1.871	May 2022	0.000		0.000		-		0.000	0.000	1.871	-
Support	WR	NSWCIH : Indian Head, MD	0.000	0.035	May 2022	0.000		0.000		-		0.000	0.000	0.035	-
Support	C/CPFF	Raytheon : Tucson, AZ	0.000	0.605	May 2022	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			2.824	2.576		0.162		0.166		-		0.166	1.440	7.168	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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 2024 Support funding reflects 2.2% inflation.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	0.000	Mar 2022	0.452	Mar 2023	0.075	Mar 2024	-		0.075	3.951	20.243	-
Operational Test & Evaluation (OT&E)	WR	NAWCWD : China Lake, CA	21.966	2.660	Mar 2022	1.873	Mar 2023	1.914	Mar 2024	-		1.914	13.500	41.913	-
Operational Test & Evaluation (OT&E)	WR	NAWCAD : Patuxent River, MD	0.000	0.446	Mar 2022	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			78.148	3.106		2.325		1.989		-		1.989	17.451	103.019	N/A

Remarks
FY 2024 Decrease in COMOPTEVFOR funding is due to decrease in required contractor support.

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	0.928	0.120	Oct 2021	0.081	Oct 2022	0.083	Oct 2023	-		0.083	0.720	1.932	-
Travel - Obligation throughout the year	WR	NAWCAD : Patuxent River, MD	3.688	0.150	Oct 2021	0.136	Oct 2022	0.139	Oct 2023	-		0.139	1.206	5.319	-

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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Prior Year Mgmt cost no longer funded in the FYDP	Various	Various : Various	8.033	0.000		0.000		0.000	Oct 2023	-		0.000	0.000	8.033	-
Subtotal			12.649	0.270		0.217		0.222		-		0.222	1.926	15.284	N/A

Remarks
The increase in FY 2024 management support funding reflects 2.2% inflation.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	574.109	23.273	29.236	36.439	-	36.439	232.262	895.319	N/A

Remarks

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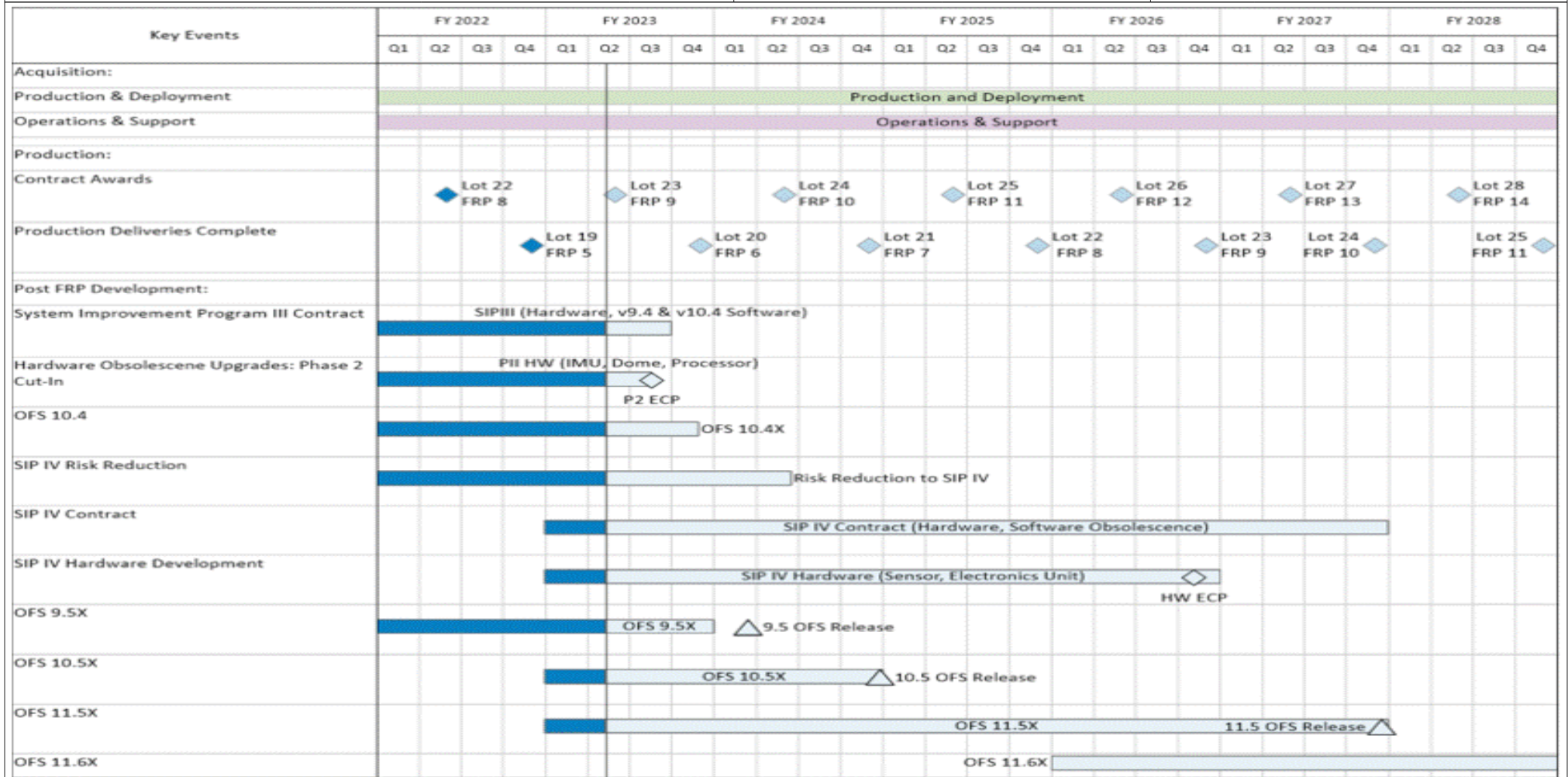
Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy

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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 2024 Navy		Date: March 2023
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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 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: Contract Awards: Lot 28 (FRP 14)	2	2028	2	2028
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
Production Milestones - Block II: Production Deliveries Complete: Lot 25 (FRP 11)	4	2028	4	2028
AIM-9X Block II Tech Refresh: System Improvement Program Contract: SIPIII (Hardware, v9.4 & v10.4 Software)	1	2022	3	2023
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: PII HW (IMU, Dome, Processor)	1	2022	3	2023
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 21 Cut In: Phase 2 ECP	3	2023	3	2023
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.4) Rehost: Software v10.4 Development Testing	1	2022	4	2023

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy **Date:** March 2023

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AIM-9X Block II Tech Refresh: Systems Improvement Program IV: Risk Reduction to SIP IV	1	2022	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	2022	4	2023
AIM-9X Block II Tech Refresh: OFS 9.5X: 9.5 OFS Release	1	2024	1	2024
AIM-9X Block II Tech Refresh: OFS 10.5X: OFS 10.5X	1	2023	4	2024
AIM-9X Block II Tech Refresh: OFS 10.5X: 10.5 OFS Release	4	2024	4	2024
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	2028