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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</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	215.065	41.114	42.155	29.330	-	29.330	16.836	9.183	7.524	7.690	Continuing	Continuing
0606: <i>Aircrew System Development</i>	207.201	30.089	34.327	19.289	-	19.289	11.858	4.363	2.456	2.508	Continuing	Continuing
9099: <i>Physiological Episodes</i>	7.864	4.267	7.828	10.041	-	10.041	4.978	4.820	5.068	5.182	Continuing	Continuing
9999: <i>Congressional Adds</i>	0.000	6.758	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6.758

A. Mission Description and Budget Item Justification

The Aircrew Systems Development program provides Engineering and Manufacturing Development of Aviation Life Support Systems to protect aircrew and flight deck personnel from current and future threats including: directed energy weapons, chemical/biological/radiological agents/fallout, ballistic projectiles, temperature extremes, heat/fire, low concentration oxygen environments, high dynamic forces during emergency egress, hearing loss, and high "G" forces. The program also provides development for the following capabilities: night vision capability, hearing and head protection, aircrew endurance, aircrew performance, man mounted data display, communications, clothing, in flight restraint and stability, emergency egress and descent, escape and evasion, survival and rescue, crash protection, and clothing/gear fitment for the entire range of anthropomorphic sizes. Acquisition strategies include: use of non-developmental items, the application of streamlining authorities, joint and tri-service developments, the pursuit of NATO/allied cooperative ventures, and open competition. These strategies expedite introduction of new products into Navy and Marine Corps fixed and rotary wing aircraft, reduce costs, and promote commonality.

The Physiological Episodes program provides funding to assure pilot performance by developing and fielding systems that reduce physiological burden, monitor state of pilot health, warn of pending or actual performance degradation that may result in loss of consciousness, and improve overall aircrew resilience to assure the crew's ability to safely conduct flight. Several potential solutions underwent evaluation. The Physiological Episode Root Cause & Corrective Action (RCCA) team determined that an improved helmet, mask, and regulator system was required to mitigate PEs. This program determines what improvements are needed and develops the material solutions required to minimize the likelihood of PE occurrence.

JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production decision.

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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	50.282	42.155	10.216	-	10.216
Current President's Budget	41.114	42.155	29.330	-	29.330
Total Adjustments	-9.168	0.000	19.114	-	19.114
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-8.085	0.000			
• SBIR/STTR Transfer	-1.083	0.000			
• Program Adjustments	0.000	0.000	19.450	-	19.450
• Rate/Misc Adjustments	0.000	0.000	-0.336	-	-0.336

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Aircrew systems development*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: 9999	6.758	0.000
Congressional Add Totals for all Projects	6.758	0.000

Change Summary Explanation

Funding:

FY 2025 overall funding increase of \$19.114M from the previous President's Budget Submission is due to Department of the Navy requirements for Survival Vest Improvement Program, Aircrew Recovery Locator Device (RLD), and Aircrew Hearing Protection (HP). Increase also includes Department-approved realignment of procurement funds to RDTE,N for the Improved Joint Helmet Mounted Cueing System (IJHMCS) and Physiological Monitoring (PhysMon) programs.

Schedule:

1. The Enhanced Visual Acuity (EVA) program was challenged with cost and schedule increases due to the technical maturity of multiple critical technologies. The Government is terminating the EMD contract. The Government is replanning the program with an intent to compete a new EMD contract after technical maturation of the applicable technologies.

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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	
<p>2. The following major schedule changes were made to the MH-60R/S Head and Neck Injury Mitigation (HNIM) program due to a higher-than-anticipated technology readiness level:</p> <ul style="list-style-type: none">-HNIM FRP DR moved from Q1FY27 to Q2FY26-HNIM FRP Contract Award moved from Q2FY27 to Q2FY26-HNIM FRP Delivery moved from Q1FY28 through Q4FY28 to Q1FY27 through Q4FY29-HNIM TRR moved from Q4FY24 to Q2FY24-HNIM ILA moved from Q1FY26 to Q3FY24-HNIM Flight Test moved from Q3FY24 through Q1FY25 to Q2FY24 through Q3FY24 <p>3. The following major schedule changes were made to the Improved Joint Helmet Mounted Cueing System (IJHMCS) program:</p> <ul style="list-style-type: none">-IJHMCS FRP 1 Award moved from Q3FY26 to Q2FY27-IJHMCS FRP 2 Award moved from Q3FY27 to Q2FY28-IJHMCS FRP 3 Award moved from Q1FY28 to Q2FY29-IJHMCS FRP 1 Delivery moved from Q4FY27 through Q3FY28 to Q2FY28 through Q2FY29-IJHMCS FRP 2 Delivery moved from Q3FY28 through Q4FY28 to Q2FY29 through Q4FY29-IJHMCS SRR/ICD TIM moved from Q3FY23 to Q1FY24-IJHMCS TRR moved from Q1FY25 to Q3FY25-IJHMCS M-Demo moved from Q3FY25 to Q4FY26-IJHMCS DT-B1 moved from Q2FY24 through Q1FY25 to Q2FY25 through Q4FY25-IJHMCS IT-B1 (DT/OT) moved from Q2FY25 through Q4FY25 to Q4FY25 through Q4FY26 <p>3. The following major schedule changes were made to the RW/TR Survival Vest Improvement program based on time required for resolution of issues identified during developmental testing and changes to contracting strategy:</p> <ul style="list-style-type: none">-Vest MS C moved from Q1FY24 to Q3FY24-Vest IOC moved from Q3FY24 to Q1FY25-Vest Engineering and Manufacturing Development Phase moved from Q1FY23 through Q1FY24 to Q1FY23 through Q3FY24-Vest Production and Deployment Phase moved from Q1FY24 through Q2FY28 to Q3FY24 through Q2FY27-Vest LRIP 1 Contract Award moved from Q1FY24 to Q3FY24-Vest LRIP 1 Delivery moved from Q2FY24 through Q2FY25 to Q1FY25 through Q4FY25-Vest FRP 1 Delivery moved from Q2FY25 through Q2FY26 to Q4FY25 through Q3FY26-Vest SVR moved from Q1FY24 to Q3FY24-Vest Developmental Testing moved from Q3FY23 through Q1FY24 to Q3FY23 through Q4FY24		

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

Appropriation/Budget Activity
1319: *Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)*

R-1 Program Element (Number/Name)
PE 0604264N / *Air Crew Systems Development*

4. The original acquisition strategy for the Helmet, Mask, Regulator (HMR) program was developed to execute the program as one fielded end-item containing a Helmet, Mask, and Regulator. However, each of the components making up HMR are individual configuration items compatible with legacy components that will be fielded to multiple platforms with differing requirements. Therefore, the program office is now executing a new acquisition strategy to develop and field each individual component separately in order to avoid delays due to technical issues associated with any individual component. The following major schedule changes were made to the HMR program as a result of this change in acquisition strategy:
-HMR Engineering and Manufacturing Development Phase moved from Q1FY23 through Q4FY25 to Q1FY23 through Q4FY29
-HMR Production and Deployment Phase moved from Q3FY24 through Q4FY27 to Q1FY26 through Q4FY29
-Various HMR program schedule elements have been removed and replaced by schedule elements related to the three individual component, including Milestones (MS C and IOC), Program Management events (PMR), Contract awards (Development and Production), Deliveries (Test Assets, LRIP Units, and FRP Units), Engineering events (PDR, CDR, TRR/FRR, SVR/PRR, and PCA), Test and Evaluation events (Lab/Ground Tests and Flight Tests)

Technical:
Not Applicable

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development				Project (Number/Name) 0606 / Aircrew System Development			
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
0606: Aircrew System Development	207.201	30.089	34.327	19.289	-	19.289	11.858	4.363	2.456	2.508	Continuing	Continuing
Quantity of RDT&E Articles		23	101	117	-	117	45	15	15	15		

A. Mission Description and Budget Item Justification

AIRCREW SYSTEMS: Aircrew Systems include Enhanced Visual Acuity (EVA), MH-60R/S Head and Neck Injury Mitigation (HNIM), Improved Joint Helmet Mounted Cueing System (IJHMCS), Next Generation Survival Radio (NGSR), Aircrew Recovery Locator Device (RLD), Aircrew Hearing Protection (HP), and Rotary Wing/Tilt Rotor (RW/TR) Survival Vest Improvement. EVA provides advanced day/night vision/Head Up Display (HUD) capability to address critical capability gaps in low and no light illumination levels (night vision). EVA will be integrated on current aircraft through a common interface allowing an incremental, modular approach to fielding full capability and future upgrades. HNIM will leverage work conducted during the Gunner Seat replacement program to reduce aircraft vibrations through incorporation of active and passive vibration damping into MH-60 R/S cockpit seats to reduce fatigue and enhance mission endurance. Solutions will reduce short-term and long-term biomechanical injury due to vibration. IJHMCS will mitigate aircrew back and neck strain/fatigue and replace the JHMCS Helmet Mounted Day Display and Night Vision Cueing Device (NVCD) with a single day/night, digital color-capable helmet-mounted display. IJHMCS will integrate onto the helmet solution identified in the HMR program. NGSR will address communication security (COMSEC) modernization directives and current obsolescence issues, providing a secure two-way Beyond Line-of-Sight (BLOS) communications capability between isolated personnel and rescue coordination and recovery forces. The RLD program will develop, qualify, procure and field a small, precise signaling device to support personnel recovery. This device will transmit a secure, geo-locatable distress signal in a GPS-denied environment over existing US government and other communications architectures. The HP program will leverage technology advancements in hearing conservation and speech intelligibility to mitigate aircrew hearing loss and clarity of mission-critical communication. The RW/TR Survival Vest Improvement program provides for an improved RW/TR Aircrew Survival Vest to address safety and performance issues with the currently fielded solution.

SAFETY AND SURVIVAL SYSTEMS: Safety and Survival Systems include Aircrew Safety Improvement Program (ASIP) and State of the Art (SOA). ASIP provides agile response to high-priority, near-term aircrew systems deficiencies and capability gaps to address critical safety, performance, obsolescence and readiness issues. SOA provides for the yearly evaluation of survival systems, addresses capability gaps, and executes developmental efforts to increase endurance, safety, and survivability. SOA also rapidly qualifies Commercial Off-the-Shelf (COTS) and nondevelopmental items (NDI) as solutions to enhance safety and survivability.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Aircrew System Development	27.755	30.744	16.652	0.000	16.652
Articles:	8	76	99	-	99
Description: Aircrew Systems include Enhanced Visual Acuity (EVA), MH-60R/S Head and Neck Injury Mitigation (HNIM), Improved Joint Helmet Mounted Cueing System (IJHMCS), Next Generation Survival Radio					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
(NGSR), Aircrew Recovery Locator Device (RLD), Aircrew Hearing Protection (HP), and RW/TR Survival Vest Improvement.					
FY 2024 Plans:					
MH-60R/S Head and Neck Injury Mitigation (HNIM): Complete Critical Design Review (CDR) and Technical Readiness Review (TRR). Continue development to modify, test, qualify and field vibration-damping systems for the cockpit seats on the MH-60R/S.					
Improved Joint Helmet Mounted Cueing System (IJHMCS): Complete CDR, take delivery of Mass Models and Engineering Development Models.					
Next Generation Survival Radio (NGSR): Continue development and design to modify, test, qualify, and field NGSR in order to ensure secure two-way Beyond Line-of-Sight (BLOS) communications capability between isolated personnel and rescue coordination and recovery forces.					
RW/TR Aircrew Vest Program: Continue to develop improvements to Survival Vest System.					
FY 2025 Base Plans:					
MH-60R/S Head and Neck Injury Mitigation (HNIM): Finalize design and qualification of vibration-damping system and transition into production of retrofit kits.					
Improved Joint Helmet Mounted Cueing System (IJHMCS): Commence Safety Of Flight lab testing and begin Integrated Test and Evaluation. Complete Test Readiness Review and System Verification Review. Award LRIP contract.					
Recovery Locator Device (RLD): Award EMD contract, receive delivery of EDM units, begin developmental testing.					
Hearing Protection (HP): Award EMD contract and initial COTS procurement contract.					
RW/TR Aircrew Vest Program: Continue to develop, test, and qualify improvements to the Survival Vest System.					
FY 2025 OCO Plans:					
N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					
Decrease from FY 2024 to FY 2025 reflects planned acquisition life cycles for EVA, HNIM, and NGSR programs.					
Title: Safety and Survival Systems					
Articles:					
	2.334	3.583	2.637	0.000	2.637
	15	25	18	-	18

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Description: Safety and Survival Systems includes Aircrew Safety Improvement Program (ASIP) and State of the Art (SOA).</p> <p>FY 2024 Plans: Aircrew Safety Improvement Program (ASIP): Continue to provide development and qualification in response to high-priority, near-term aircrew systems deficiencies and capability gaps to address critical safety and performance issues. State of the Art (SOA): Continue to enhance aircrew safety and survivability by monitoring Commercial Off-the-Shelf (COTS) and Non-Developmental Items (NDI) technology and solution improvements that afford superior protection to legacy products in areas of survival gear, clothing and mission performance equipment. Selection and qualification of SOA candidates will be prioritized according to latest Fleet operator demand signals.</p> <p>FY 2025 Base Plans: Aircrew Safety Improvement Program (ASIP): Continue to provide development and qualification in response to high-priority, near-term aircrew systems deficiencies and capability gaps to address critical safety and performance issues. State of the Art (SOA): Continue to enhance aircrew safety and survivability by monitoring Commercial Off-the-Shelf (COTS) and Non-Developmental Items (NDI) technology and solution improvements that afford superior protection to legacy products in areas of survival gear, clothing and mission performance equipment. Selection and qualification of SOA candidates will be prioritized according to latest Fleet operator demand signals.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in FY 2025 is due to higher DON priorities.</p>					
Accomplishments/Planned Programs Subtotals	30.089	34.327	19.289	0.000	19.289

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
• OPN/4268: Aviation Life Support	41.564	36.046	70.235	-	70.235	89.384	97.849	87.084	87.965	Continuing	Continuing
• APN/0575: Aviation Life Support Mods	0.000	0.000	3.964	-	3.964	19.650	20.183	16.729	16.913	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>

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

Note: Aircrew Systems Development is only a portion of Aviation Life Support (LI 4268) and Aviation Life Support Mods (LI 0575).

D. Acquisition Strategy

Leverage Commercial-Off-The-Shelf/Non-Developmental Items where possible. Full and open competition utilizing negotiated best value procedures applied when appropriate. Cost plus fixed fee contracts are employed when sufficient technical complexity and uncertainty is associated with design and development.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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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			
Systems Eng EVA	C/CPFF	NAVAIR : Patuxent River, MD	20.312	2.594	Apr 2023	12.681	Nov 2023	0.000		-		0.000	0.000	35.587	-
Systems Eng EVA	WR	NAWCAD : Patuxent River, MD	31.392	3.012	Oct 2022	3.259	Nov 2023	0.000		-		0.000	0.000	37.663	-
Systems Eng HNIM	WR	NAWCAD : Patuxent River, MD	0.000	0.481	Oct 2022	2.000	Nov 2023	0.400	Nov 2024	-		0.400	0.000	2.881	-
Systems Eng IJHMCS	C/CPFF	NAVAIR : Patuxent River, MD	0.000	12.267	Jul 2023	6.400	Apr 2024	0.813	Apr 2025	-		0.813	0.000	19.480	-
Systems Eng IJHMCS	WR	NAWCAD : Patuxent River, MD	0.000	1.529	Oct 2022	1.500	Nov 2023	2.715	Nov 2024	-		2.715	0.000	5.744	-
Systems Eng NGSR	C/CPFF	TBD : TBD	0.000	7.822	Mar 2023	3.000	Dec 2023	0.000		-		0.000	0.000	10.822	-
Systems Eng Vest	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.993	Nov 2023	2.600	Nov 2024	-		2.600	0.000	3.593	-
Systems Eng RLD	C/CPFF	TBD : TBD	0.000	0.000		0.000		1.300	Dec 2024	-		1.300	Continuing	Continuing	Continuing
Systems Eng RLD	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.300	Nov 2024	-		0.300	Continuing	Continuing	Continuing
Systems Eng HP	C/CPFF	TBD : TBD	0.000	0.000		0.000		0.350	Feb 2025	-		0.350	Continuing	Continuing	Continuing
Systems Eng HP	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.450	Nov 2024	-		0.450	Continuing	Continuing	Continuing
Systems Eng ASIP	WR	Various : Various	0.000	0.000		1.170	Nov 2023	0.443	Nov 2024	-		0.443	0.000	1.613	-
Systems Eng SOA	WR	Various : Various	75.909	1.834	Oct 2022	1.688	Nov 2023	1.694	Nov 2024	-		1.694	Continuing	Continuing	Continuing
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	65.647	0.000		0.000		0.000		-		0.000	0.000	65.647	-
Subtotal			193.260	29.539		32.691		11.065		-		11.065	Continuing	Continuing	N/A

Remarks

- Decrease from FY24 to FY25 of \$12.681M under Systems Eng EVA (C/CPFF), \$2.734M under Systems Eng EVA (G/WR), \$1.6M under Systems Eng HNIM, and \$3M under Systems Eng NGSR (C/CPFF) reflects planned acquisition life cycles for those programs and transition to procurement phases.
- Decrease from FY24 to FY25 of \$5.587M under Systems Eng IJHMCS (C/CPFF) is due to delivery of Mass Models and EDM units in FY24 and transition of focus to government testing efforts in FY25.
- Increase from FY24 to FY25 of \$1.215M under Systems Eng IJHMCS (G/WR) is due to increased planned government labor costs to support testing of EDM units received in Q3FY24.

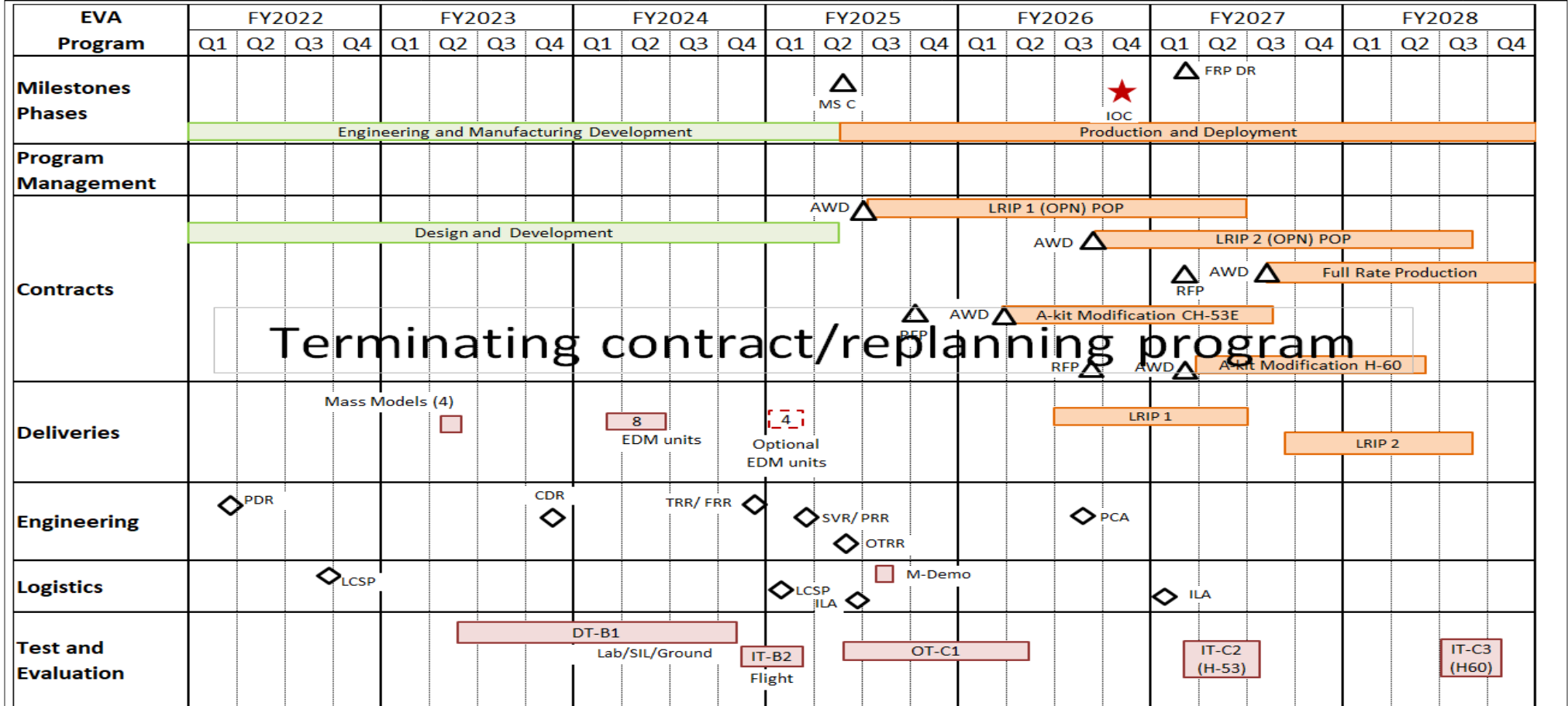
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy												Date: March 2024			
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development					Project (Number/Name) 0606 / Aircrew System Development						
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
- Increase from FY24 to FY25 of \$1.607M under Systems Eng Vest (G/WR) is due to increased planned government labor costs to support engineering changes and testing. - Increase from FY24 to FY25 of \$1.3 under Systems Eng RLD (C/CPFF), \$0.3M under Systems Eng RLD (G/WR), \$0.35M under Systems Eng HP (C/CPFF), and \$0.45M under Systems Eng HP (G/WR) is to fund Department-approved requirements for Recovery Locator Device (RLD) and Hearing Protection (HP).															
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NAWCAD : Patuxent River, MD	0.000	0.000	Oct 2022	1.085	Nov 2023	7.672	Nov 2024	-		7.672	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	NAWCAD : Patuxent River, MD	0.500	0.500	Oct 2022	0.500	Nov 2023	0.500	Nov 2024	-		0.500	0.000	2.000	-
Subtotal			0.500	0.500		1.585		8.172		-		8.172	Continuing	Continuing	N/A
Remarks															
- Developmental T&E being performed by NAWCAD is in support of HNIM (\$800k in FY24), IJHMCS (\$6.772M in FY25), RLD (\$700k in FY25), Vest (\$60k in FY24), HP (\$200k in FY25) and ASIP (\$225k in FY24). - Operational T&E being performed by NAWCAD is in support of SOA (\$500k each FY from FY23-FY25).															
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	WR	Various : Various	1.518	0.050	Oct 2022	0.051	Oct 2023	0.052	Oct 2024	-		0.052	Continuing	Continuing	Continuing
Prior year Mgmt Svcs no longer funded in the FYDP	Various	Various : Various	11.923	0.000		0.000		0.000		-		0.000	0.000	11.923	-
Subtotal			13.441	0.050		0.051		0.052		-		0.052	Continuing	Continuing	N/A
Project Cost Totals			207.201	30.089		34.327		19.289		-		19.289	Continuing	Continuing	N/A

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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Note: The Government is terminating the EMD contract due to prime vendor inability to resolve the growing technical and affordability issues related to the display technology (Micro LED) and the processing of the digital night vision imagery. The Government is replanning the program with the intent to compete a new EMD contract after technical maturation efforts associated with the critical technologies that compose the system are complete.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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HNIM Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29																
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4													
Milestones Phases	<div style="background-color: #d9ead3; padding: 2px;">Engineering and Manufacturing Development</div>								<div style="background-color: #f4cccc; padding: 2px;">Production and Deployment</div>																																
Program Management	△ ^{IBR}																																								
Contracts	<div style="background-color: #d9ead3; padding: 2px;">AWD Design and Development</div>				<div style="background-color: #f4cccc; padding: 2px;">AWD LRIP</div>								<div style="background-color: #f4cccc; padding: 2px;">AWD FRP</div>																												
Deliveries	8 Test Units													<div style="background-color: #f4cccc; padding: 2px;">LRIP (OPN)</div>				<div style="background-color: #f4cccc; padding: 2px;">FRP</div>																							
Engineering					<div style="display: flex; justify-content: space-around;"> TRR ◇ ◇ CDR </div>																																				
Logistics					<div style="display: flex; justify-content: space-around;"> ◇^{LCSP} ◇^{ILA} </div>																																				
Test and Evaluation					<div style="background-color: #f4cccc; padding: 2px;">Flight Test DT-B1</div>																																				

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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IJHMCS Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Milestones & Phases	Engineering and Manufacturing Development												Production and Deployment												MSD ★			
Program Management			LCCE ▲																									
Contracts	RFP ▲		AWD ▲		LRIP RFP ▲				AWD ▲																			
Deliveries					Mass Models ◆																							
Engineering			Kickoff ◆		SRR/ICDTIM ◆		CDR ◆		TRR ◆		SVR ◆																	
Logistics			LCSP ◆																									
Test and Evaluation																												

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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NGSR Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Milestones Phases	◇ Interim Report	◇ Final Report (CDRLA057)	◇ CSEL Scope Definition																									
Program Management		△ ROM (Alt WF & CSEL Arch.)	△ COA Select	△ NGRS Award									△ Prod Award								◇ Fielding Decision							
CSEL Architectural Study	□ CSEL Study Phase																											
NGSR Design & Prototype					SE/Development/Test																							
Exercises & Demo													◇ HHR Demo															

Note: This schedule has been furnished by the United States Air Force (USAF). The Next Generation Survival Radio (NGSR) program is managed by the Joint Program Management Office (JPMO), with the USAF as the lead integrator. As a stakeholder, the funding provided by the USN represents a commitment to address Communication Security (COMSEC) modernization directives and current obsolescence issues. Funding will augment and expedite USAF's efforts to engineer, develop, modify, test, qualify, and field NGSR to ensure Beyond Line-of-Site (BLOS) communications capability to allow downed aviators to be expeditiously located, identified, and recovered.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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RLD Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Milestones Phases																																
Program Management																																
Contracts																																
Deliveries																																
Engineering																																
Logistics																																
Test and Evaluation																																

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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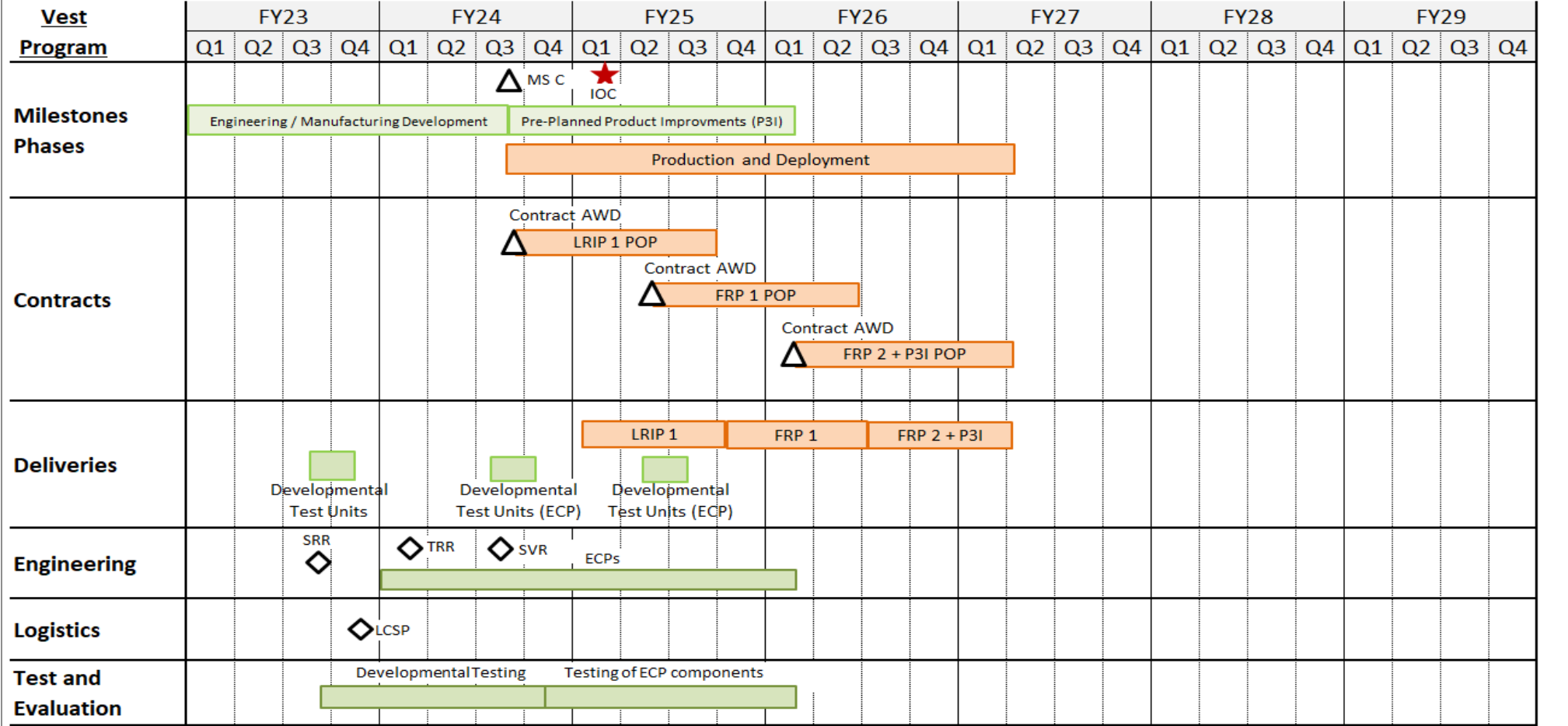
Hearing Protection Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Milestones Phases	<div style="display: flex; justify-content: space-between; align-items: center;"> △ Decision Point ★ IOC </div> <div style="background-color: #d9ead3; width: 80%; margin: 5px auto; text-align: center;">Engineering and Manufacturing Development</div> <div style="background-color: #f4cccc; width: 90%; margin: 5px auto; text-align: center;">Production and Deployment</div>																											
Program Management	△ LCCE																											
Contracts	<div style="display: flex; justify-content: space-between; align-items: center;"> △ RFP △ AWD △ AWD △ AWD △ AWD </div> <div style="background-color: #d9ead3; width: 20%; margin: 5px auto; text-align: center;">Platform 1 EMD</div> <div style="background-color: #d9ead3; width: 20%; margin: 5px auto; text-align: center;">Platform 2 EMD</div> <div style="background-color: #d9ead3; width: 20%; margin: 5px auto; text-align: center;">Platform 3 EMD</div> <div style="background-color: #f4cccc; width: 20%; margin: 5px auto; text-align: center;">COTS Procurements*</div> <div style="background-color: #f4cccc; width: 20%; margin: 5px auto; text-align: center;">Platform 1 Procurement</div> <div style="background-color: #f4cccc; width: 20%; margin: 5px auto; text-align: center;">Platform 2 Procurement</div> <div style="background-color: #f4cccc; width: 20%; margin: 5px auto; text-align: center;">Platform 3 Procurement</div>																											
Deliveries	<div style="background-color: #f4cccc; width: 90%; margin: 5px auto; text-align: center;">Hearing Protection</div>																											
Engineering	<div style="display: flex; justify-content: space-between; align-items: center;"> ◇ SRR ◇ TIM 1 ◇ TIM 2 ◇ TIM 3 </div> <div style="display: flex; justify-content: space-between; align-items: center;"> ◇ TRA </div>																											
Logistics	<div style="display: flex; justify-content: space-between; align-items: center;"> ◇ LCSP ◇ IEA ◇ IEA ◇ IEA </div>																											
Test and Evaluation	<div style="background-color: #f4cccc; width: 80%; margin: 5px auto; text-align: center;">Lab/Ground/Flight Testing</div>																											

*This program will incrementally identify or develop, test, and qualify different solutions for each platform. A mixture of both Commercial-Off-the-Shelf (COTS) and developmental products is expected.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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Note: Schedule reflects FY23 RDTE funding received through Congressional Add and budgeted FY24 RDTE funding received under PE 0604264N/PU 0606.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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Safety and Survival Systems	FY23				FY24				FY25				FY26				FY27				FY28				FY29							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Milestones Phases																																
Program Management	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △	SOA Catalog Update △			
Contracts	RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △			RFI △	Procure Test Assets △		
Deliveries	Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △				Test Asset Deliveries △			
Engineering																																
Logistics																																
Test and Evaluation	Developmental Testing				Developmental Testing				Developmental Testing				Developmental Testing				Developmental Testing				Developmental Testing				Developmental Testing							
	Operational Testing				Operational Testing				Operational Testing				Operational Testing				Operational Testing				Operational Testing				Operational Testing							
	Flight Clearance Testing				Flight Clearance Testing				Flight Clearance Testing				Flight Clearance Testing				Flight Clearance Testing				Flight Clearance Testing				Flight Clearance Testing							

Note: SOA provides for the yearly evaluation of survival systems, addresses capability gaps, and executes developmental efforts to increase endurance, safety, and survivability. ASIP provides agile response to high-priority, near-term aircrew systems deficiencies and capability gaps to address critical safety and performance issues.

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MH-60 R/S Head & Neck Injury Mitigation (HNIM)</i>				
Acquisition Milestones: Milestones: HNIM Milestone C	1	2025	1	2025
Acquisition Milestones: Milestones: HNIM IOC	1	2026	1	2026
Acquisition Milestones: Milestones: HNIM FRP DR	2	2026	2	2026
Acquisition Milestones: Phases: HNIM Engineering & Manufacturing Development Phase	1	2023	1	2025
Acquisition Milestones: Phases: HNIM Production & Deployment Phase	1	2025	4	2029
System Development: Reviews: HNIM CDR	2	2024	2	2024
System Development: Reviews: HNIM TRR	2	2024	2	2024
Test and Evaluation: HNIM Developmental Testing DT-B1	2	2024	3	2024
Production Milestones: Contract Awards: HNIM Design and Development Contract	4	2023	4	2023
Production Milestones: Contract Awards: HNIM LRIP 1 (OPN)	1	2025	1	2025
Production Milestones: Contract Awards: HNIM FRP 1 (OPN)	2	2026	2	2026
Deliveries: HNIM Test Units	1	2023	1	2023
Deliveries: HNIM LRIP 1	1	2026	4	2026
Deliveries: HNIM FRP	1	2027	4	2029
<i>Improved Joint Helmet Mounted Cueing System (IJHMCS)</i>				
Acquisition Milestones: Milestones: IJHMCS IOC	4	2027	4	2027
Acquisition Milestones: Phases: IJHMCS Engineering & Manufacturing Development Phase	1	2023	4	2025
Acquisition Milestones: Phases: IJHMCS Production & Deployment Phase	4	2025	4	2029
System Development: Reviews: IJHMCS Kickoff	4	2023	4	2023
System Development: Reviews: IJHMCS SRR/ICD TIM	1	2024	1	2024

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy			Date: March 2024	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)		
1319 / 5	PE 0604264N / Air Crew Systems Development	0606 / Aircrew System Development		
Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
System Development: Reviews: IJHMCS CDR	3	2024	3	2024
System Development: Reviews: IJHMCS TRR	3	2025	3	2025
System Development: Reviews: IJHMCS SVR	4	2025	4	2025
System Development: Reviews: IJHMCS PCA	1	2027	1	2027
Test and Evaluation: IJHMCS Developmental Testing DT-B1	2	2025	4	2025
Test and Evaluation: IJHMCS Integration Testing IT-B1	4	2025	4	2026
Production Milestones: Contract Awards: IJHMCS System Design/Development & Aircraft Integration	4	2023	4	2023
Production Milestones: Contract Awards: IJHMCS LRIP 1 (OPN)	4	2025	4	2025
Production Milestones: Contract Awards: IJHMCS LRIP 2 (OPN)	2	2026	2	2026
Production Milestones: Contract Awards: IJHMCS FRP 1 (OPN)	2	2027	2	2027
Production Milestones: Contract Awards: IJHMCS FRP 2 (OPN)	2	2028	2	2028
Production Milestones: Contract Awards: IJHMCS FRP 3 (OPN)	2	2029	2	2029
Deliveries: IJHMCS Mass Models	3	2024	3	2024
Deliveries: IJHMCS EDM Units	4	2024	4	2024
Deliveries: IJHMCS LRIP 1	4	2026	4	2027
Deliveries: IJHMCS LRIP 2	2	2027	2	2028
Deliveries: IJHMCS FRP 1	2	2028	2	2029
Deliveries: IJHMCS FRP 2	2	2029	4	2029
Next Generation Survival Radio (NGSR)				
Acquisition Milestones: Phases: NGSR Systems Engineering/Developmental/Test Phase	3	2023	3	2025
Production Milestones: Contract Awards: NGSR Design and Development Contract Award	4	2023	4	2023
Aircrew Recovery Locator Device (RLD)				
Acquisition Milestones: Milestones: RLD Milestone C	1	2027	1	2027

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Acquisition Milestones: Milestones: RLD IOC	3	2027	3	2027
Acquisition Milestones: Phases: RLD Engineering & Manufacturing Development Phase	1	2025	4	2026
Acquisition Milestones: Phases: RLD Production & Deployment Phase	1	2027	4	2029
System Development: Reviews: RLD SRR	1	2025	1	2025
System Development: Reviews: RLD Kickoff	1	2025	1	2025
System Development: Reviews: RLD PDR	2	2025	2	2025
System Development: Reviews: RLD CDR	4	2025	4	2025
System Development: Reviews: RLD TRR	3	2026	3	2026
System Development: Reviews: RLD SVR	2	2026	2	2026
Test and Evaluation: RLD DT-Series	3	2025	1	2026
Test and Evaluation: RLD DT/OT	1	2026	4	2026
Production Milestones: Contract Awards: RLD System Design/Development & Infrastructure Integration Award	1	2025	1	2025
Production Milestones: Contract Awards: RLD LRIP 1	1	2027	1	2027
Production Milestones: Contract Awards: RLD FRP 1	2	2027	2	2027
Deliveries: RLD EDM Units	2	2025	2	2025
Deliveries: RLD LRIP 1	1	2027	3	2027
Deliveries: RLD FRP 1	2	2027	4	2029
<i>Aircrew Hearing Protection (HP)</i>				
Acquisition Milestones: Milestones: HP Decision Point	4	2025	4	2025
Acquisition Milestones: Milestones: HP IOC	3	2026	3	2026
Acquisition Milestones: Phases: HP Engineering & Manufacturing Development Phase	1	2025	4	2028
Acquisition Milestones: Phases: HP Production & Deployment Phase	4	2025	4	2029
Production Milestones: Contract Awards: HP Platform 1 EMD Award	4	2025	4	2025
Production Milestones: Contract Awards: HP Platform 2 EMD Award	4	2026	4	2026

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: HP Platform 3 EMD Award	3	2027	3	2027
Production Milestones: Contract Awards: HP COTS Procurements	4	2025	4	2025
Production Milestones: Contract Awards: HP Platform 1 Procurement Award	2	2026	2	2026
Production Milestones: Contract Awards: HP Platform 2 Procurement Award	2	2027	2	2027
Production Milestones: Contract Awards: HP Platform 3 Procurement Award	2	2028	2	2028
Production Milestones: Deliveries: HP Deliveries	1	2026	4	2029
Systems Development: Reviews: HP SRR	2	2025	2	2025
Systems Development: Reviews: HP TIM 1	1	2026	1	2026
Systems Development: Reviews: HP TRA	2	2026	2	2026
Systems Development: Reviews: HP TIM 2	1	2027	1	2027
Systems Development: Reviews: HP TIM 3	1	2028	1	2028
Test and Evaluation: HP Lab/Ground/Flight Testing	2	2026	4	2028
Vest Program				
Acquisition Milestones: Milestones: Vest Milestone C	3	2024	3	2024
Acquisition Milestones: Milestones: Vest IOC	1	2025	1	2025
Acquisition Milestones: Phases: Vest Engineering & Manufacturing Development Phase	1	2023	3	2024
Acquisition Milestones: Phases: Vest Pre-Planned Product Improvements Phase	3	2024	1	2026
Acquisition Milestones: Phases: Vest Production & Deployment Phase	3	2024	2	2027
Systems Development: Reviews: Vest SRR	3	2023	3	2023
Systems Development: Reviews: Vest TRR	1	2024	1	2024
Systems Development: Reviews: Vest SVR	3	2024	3	2024
Test and Evaluation: Vest Developmental Testing	3	2023	4	2024
Test and Evaluation: Vest Testing of ECP Components	4	2024	1	2026
Production Milestones: Contract Awards: Vest LRIP 1 (OPN) Contract Award	3	2024	3	2024
Production Milestones: Contract Awards: Vest FRP 1 (Option) Contract Award	2	2025	2	2025

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: Vest FRP 2 (Option) Contract Award	1	2026	1	2026
Deliveries: Vest Developmental Test Units Delivery	3	2023	4	2023
Deliveries: Vest Developmental Test Units 1 (ECP) Delivery	3	2024	4	2024
Deliveries: Vest Developmental Test Units 2 (ECP) Delivery	2	2025	3	2025
Deliveries: Vest LRIP 1 Delivery	1	2025	4	2025
Deliveries: Vest FRP 1 Delivery	4	2025	3	2026
Deliveries: Vest FRP 2 Delivery	3	2026	2	2027
Safety and Survival Systems				
Program Management: Milestones: SOA FY23 Catalog Update 1	2	2023	2	2023
Program Management: Milestones: SOA FY23 Catalog Update 2	4	2023	4	2023
Program Management: Milestones: SOA FY24 Catalog Update 1	2	2024	2	2024
Program Management: Milestones: SOA FY24 Catalog Update 2	4	2024	4	2024
Program Management: Milestones: SOA FY25 Catalog Update 1	2	2025	2	2025
Program Management: Milestones: SOA FY25 Catalog Update 2	4	2025	4	2025
Program Management: Milestones: SOA FY26 Catalog Update 1	2	2026	2	2026
Program Management: Milestones: SOA FY26 Catalog Update 2	4	2026	4	2026
Program Management: Milestones: SOA FY27 Catalog Update 1	2	2027	2	2027
Program Management: Milestones: SOA FY27 Catalog Update 2	4	2027	4	2027
Program Management: Milestones: SOA FY28 Catalog Update 1	2	2028	2	2028
Program Management: Milestones: SOA FY28 Catalog Update 2	4	2028	4	2028
Program Management: Milestones: SOA FY29 Catalog Update 1	2	2029	2	2029
Program Management: Milestones: SOA FY29 Catalog Update 2	4	2029	4	2029
Program Management: Milestones: SOA/ASIP FY23 Requirements Identification	4	2023	4	2023
Program Management: Milestones: SOA/ASIP FY24 Requirements Identification	4	2024	4	2024
Program Management: Milestones: SOA/ASIP FY25 Requirements Identification	4	2025	4	2025

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 0606 / Aircrew System Development
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Program Management: Milestones: SOA/ASIP FY26 Requirements Identification	4	2026	4	2026
Program Management: Milestones: SOA/ASIP FY27 Requirements Identification	4	2027	4	2027
Program Management: Milestones: SOA/ASIP FY28 Requirements Identification	4	2028	4	2028
Program Management: Milestones: SOA/ASIP FY29 Requirements Identification	4	2029	4	2029
Contracts: Milestones: SOA FY23 RFI	1	2023	1	2023
Contracts: Milestones: SOA FY24 RFI	1	2024	1	2024
Contracts: Milestones: SOA FY25 RFI	1	2025	1	2025
Contracts: Milestones: SOA FY26 RFI	1	2026	1	2026
Contracts: Milestones: SOA FY27 RFI	1	2027	1	2027
Contracts: Milestones: SOA FY28 RFI	1	2028	1	2028
Contracts: Milestones: SOA FY29 RFI	1	2029	1	2029
Contracts: Milestones: SOA FY23 Procure Test Assets	2	2023	2	2023
Contracts: Milestones: SOA FY24 Procure Test Assets	2	2024	2	2024
Contracts: Milestones: SOA FY25 Procure Test Assets	2	2025	2	2025
Contracts: Milestones: SOA FY26 Procure Test Assets	2	2026	2	2026
Contracts: Milestones: SOA FY27 Procure Test Assets	2	2027	2	2027
Contracts: Milestones: SOA FY28 Procure Test Assets	2	2028	2	2028
Contracts: Milestones: SOA FY29 Procure Test Assets	2	2029	2	2029
Deliveries: Milestones: SOA FY23 Test Assets Delivery	2	2023	2	2023
Deliveries: Milestones: SOA FY24 Test Assets Delivery	2	2024	2	2024
Deliveries: Milestones: SOA FY25 Test Assets Delivery	2	2025	2	2025
Deliveries: Milestones: SOA FY26 Test Assets Delivery	2	2026	2	2026
Deliveries: Milestones: SOA FY27 Test Assets Delivery	2	2027	2	2027
Deliveries: Milestones: SOA FY28 Test Assets Delivery	2	2028	2	2028
Deliveries: Milestones: SOA FY29 Test Assets Delivery	2	2029	2	2029

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Test & Evaluation: SOA FY23 Developmental Testing	1	2023	4	2023
Test & Evaluation: SOA FY23 Operational Testing	1	2023	4	2023
Test & Evaluation: SOA FY23 Flight Clearance Testing	1	2023	4	2023
Test & Evaluation: SOA FY24 Developmental Testing	1	2024	4	2024
Test & Evaluation: SOA FY24 Operational Testing	1	2024	4	2024
Test & Evaluation: SOA FY24 Flight Clearance Testing	1	2024	4	2024
Test & Evaluation: SOA FY25 Developmental Testing	1	2025	4	2025
Test & Evaluation: SOA FY25 Operational Testing	1	2025	4	2025
Test & Evaluation: SOA FY25 Flight Clearance Testing	1	2025	4	2025
Test & Evaluation: SOA FY26 Developmental Testing	1	2026	4	2026
Test & Evaluation: SOA FY26 Operational Testing	1	2026	4	2026
Test & Evaluation: SOA FY26 Flight Clearance Testing	1	2026	4	2026
Test & Evaluation: SOA FY27 Developmental Testing	1	2027	4	2027
Test & Evaluation: SOA FY27 Operational Testing	1	2027	4	2027
Test & Evaluation: SOA FY27 Flight Clearance Testing	1	2027	4	2027
Test & Evaluation: SOA FY28 Developmental Testing	1	2028	4	2028
Test & Evaluation: SOA FY28 Operational Testing	1	2028	4	2028
Test & Evaluation: SOA FY28 Flight Clearance Testing	1	2028	4	2028
Test & Evaluation: SOA FY29 Developmental Testing	1	2029	4	2029
Test & Evaluation: SOA FY29 Operational Testing	1	2029	4	2029
Test & Evaluation: SOA FY29 Flight Clearance Testing	1	2029	4	2029

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9099 / Physiological Episodes
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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
9099: <i>Physiological Episodes</i>	7.864	4.267	7.828	10.041	-	10.041	4.978	4.820	5.068	5.182	Continuing	Continuing
Quantity of RDT&E Articles		-	80	25	-	25	25	-	-	-		

A. Mission Description and Budget Item Justification

Proj 9099 PHYSIOLOGICAL EPISODES:
 Physiological Episodes includes Physiological Monitoring (PhysMon) and Helmet Mask Regulator (HMR).
 PhysMon: This program provides funding to assure pilot performance integrity by developing and fielding a system that monitors pilot physiological parameters and warns of state of health or performance degradation that may result in loss of consciousness or the ability to safely conduct flight.
 HMR: Improved helmets, masks, and regulators are required to mitigate PE. This program determines what improvements are needed and develops the material solution. The closeout of RCCA action items is paramount to the Naval Aviation Enterprise's efforts in mitigating PE, restoring confidence in the aircraft, and most importantly, keeping our USN and USMC aircrew safe.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Physiological Episodes	4.267	7.828	10.041	0.000	10.041
Articles:	-	80	25	-	25
FY 2024 Plans:					
PhysMon: Award development contracts and begin development of integrated system. Continue on-going lab/ground and flight testing. HMR: Hold PMR, begin delivery of test assets and start lab/ground and flight testing.					
FY 2025 Base Plans:					
PhysMon: Continue evaluation of Physiological Monitoring devices. HMR: Hold component PMRs, execute development through Other Transaction Authority (OTA) contracts for helmet and mask components, continue delivery of test assets, continue testing of helmet component, and begin testing of mask component.					
FY 2025 OCO Plans:					
N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					
Increase from FY 2024 to FY 2025 reflects planned acquisition life cycles for PhysMon and HMR programs.					
Accomplishments/Planned Programs Subtotals	4.267	7.828	10.041	0.000	10.041

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 9099 / <i>Physiological Episodes</i>

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• OPN/4268: <i>Aviation Life Support</i>	4.300	9.900	6.733	-	6.733	21.384	25.810	21.960	22.154	Continuing	Continuing
• APN/0575: <i>Aviation Life Support Mods</i>	1.093	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.093

Remarks

Note: Physiological Episodes is only a portion of Aviation Life Support (LI 4268) and Aviation Life Support Mods (LI 0575).

D. Acquisition Strategy

Leverage Commercial-Off-The-Shelf/Non-Developmental Items where possible. Full and open competition utilizing negotiated best value procedures applied when appropriate. Cost plus fixed fee contracts are employed when sufficient technical complexity and uncertainty is associated with design and development.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9099 / Physiological Episodes
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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			
Systems Eng PhysMon	WR	NAWCAD : Patuxent River, MD	0.353	1.692	Oct 2022	0.250	Nov 2023	0.727	Nov 2024	-		0.727	Continuing	Continuing	Continuing
Systems Eng PhysMon	WR	Various : Various	7.066	0.000		0.160	Nov 2023	0.160	Nov 2024	-		0.160	Continuing	Continuing	Continuing
Systems Eng PhysMon	C/FFP	TBD : TBD	0.000	0.000		1.372	Feb 2024	3.524	Dec 2024	-		3.524	0.000	4.896	-
Systems Eng HMR	WR	NAWCAD : Patuxent River, MD	0.000	2.315	Oct 2022	2.300	Nov 2023	2.491	Nov 2024	-		2.491	0.000	7.106	-
Systems Eng HMR	WR	Various : Various	0.000	0.215	Jan 2023	0.300	Nov 2023	0.400	Nov 2024	-		0.400	0.000	0.915	-
Systems Eng HMR	C/CPFF	TBD : TBD	0.000	0.000		2.000	Dec 2023	1.950	Dec 2024	-		1.950	0.000	3.950	-
Subtotal			7.419	4.222		6.382		9.252		-		9.252	Continuing	Continuing	N/A

Remarks
- Increase from FY 2024 to FY 2025 of \$2.152M under Systems Eng PhysMon (C/FFP) is due to engineering effort associated with delivery and testing of EDM units.

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			
Developmental Test & Evaluation (DT&E)	WR	NAWCAD : Patuxent River, MD	0.445	0.045	Nov 2022	1.336	Nov 2023	0.539	Nov 2024	-		0.539	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	MIPR	NAMRU-D : Dayton, OH	0.000	0.000		0.110	Dec 2023	0.250	Dec 2024	-		0.250	0.000	0.360	-
Subtotal			0.445	0.045		1.446		0.789		-		0.789	Continuing	Continuing	N/A

Remarks
- Developmental T&E being performed by NAWCAD is in support of PhysMon (\$45k in FY 2023, \$120k in FY 2024, and \$475k in FY 2025) and HMR (\$1.216M in FY 2024 and \$64k in FY 2025).
- Developmental T&E being performed by NAMRU-D is in support of PhysMon (\$110k in FY 2024 and \$250k in FY 2025).

	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		7.864	4.267	7.828	10.041	-	10.041	Continuing	Continuing	N/A

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9099 / Physiological Episodes
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Phys. Mon Program	FY23				FY24				FY25				FY26				FY27				FY28				FY29					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Milestones Phases	IOC ★		Production and Deployment Phase												Operations and Support Phase												Sensor Development/Improvements			
Program Management	PMR ▲				PMR ▲				PMR ▲				PMR ▲																	
Contracts	RFP ▲		Production ▲		AWD ▲		RFP ▲		Production ▲		AWD ▲																			
Deliveries	LRIP 1				LRIP 2								FRP 1				FRP 2													
Engineering	SVR/PRR ◇		PCA ◇						SVR/PRR ◇		PCA ◇																			
Logistics	ILA ◇		LCSP ◇																											
Test and Evaluation	Lab/Ground testing				On-Going Lab/Ground testing																									
	Integration tests				Adhoc flight tests																									
	Squadron flight tests																													

*The USN continues to develop system requirements to inform the Physiological Monitoring program. An updated schedule will be submitted when all changes have been finalized.

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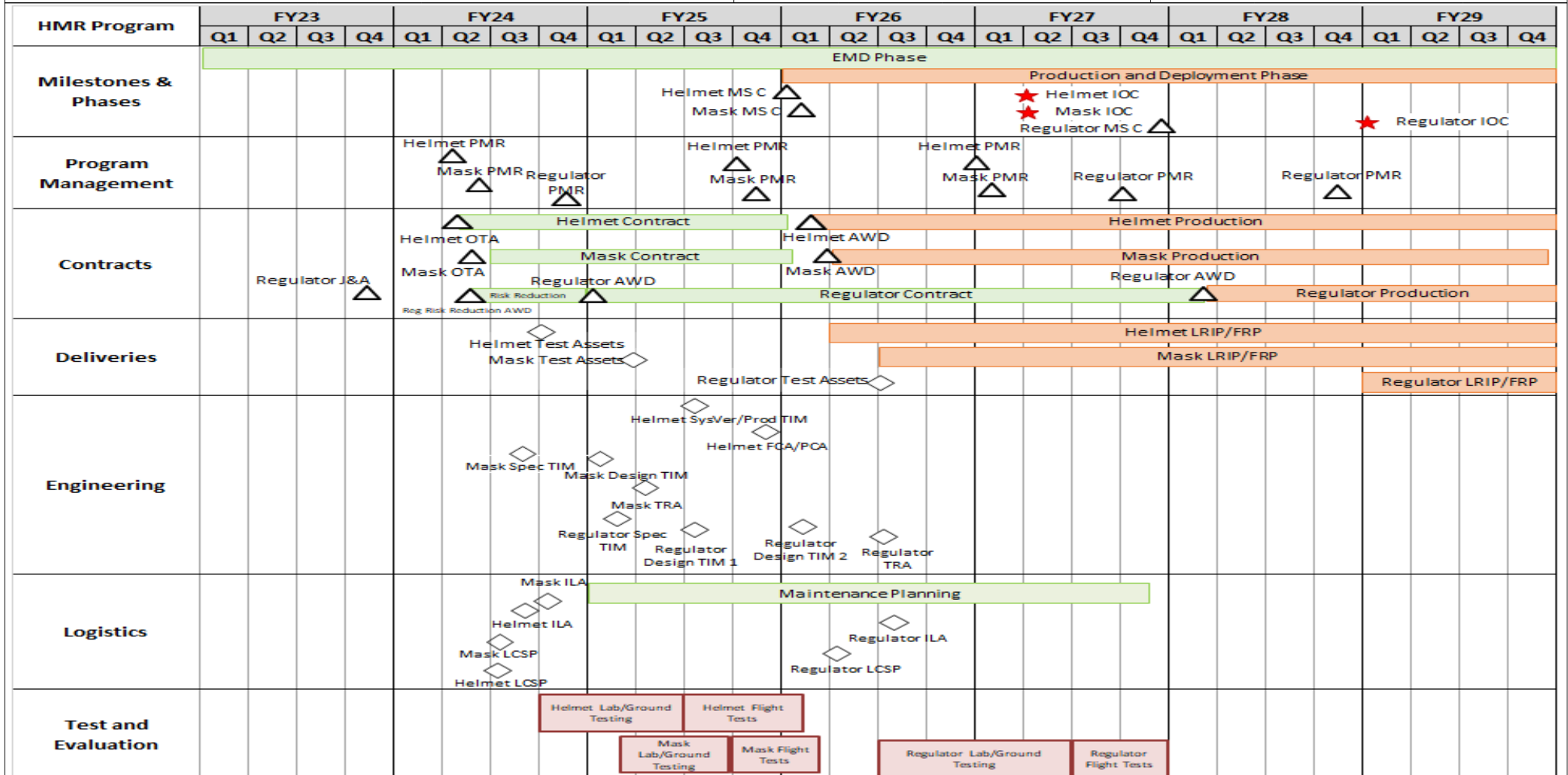
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy

Date: March 2024

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0604264N / Air Crew Systems Development

Project (Number/Name)
9099 / Physiological Episodes



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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 9099 / <i>Physiological Episodes</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Physiological Monitoring</i>				
Acquisition Milestones: Milestones: PM IOC	3	2026	3	2026
Acquisition Milestones: Phases: PM Production & Deployment Phase	1	2023	4	2029
Acquisition Milestones: Phases: PM Operations & Support Phase	4	2025	4	2029
Acquisition Milestones: Phases: PM Sensor Development/Improvements Phase	3	2023	2	2027
System Development: Reviews: PM SVR/PRR 1	1	2023	1	2023
System Development: Reviews: PM PCA 1	4	2023	4	2023
System Development: Reviews: PM SVR/PRR 2	1	2025	1	2025
System Development: Reviews: PM PCA 2	4	2025	4	2025
Test & Evaluation: PM On-Going Lab/Ground Tests	1	2023	4	2029
Test & Evaluation: PM On-Going Adhoc Flight Tests	1	2024	4	2029
Test & Evaluation: PM Integration Tests	1	2023	4	2023
Test & Evaluation: PM Squadron Flight Tests	1	2023	1	2023
Production Milestones: Contract Award: PM Integration Award	2	2023	2	2023
Production Milestones: Contract Award: PM Production Contract Award 1	4	2023	4	2023
Production Milestones: Contract Award: PM Production Contract Award 2	4	2024	4	2024
Deliveries: PM LRIP 1 Delivery	2	2023	1	2024
Deliveries: PM LRIP 2 Delivery	3	2024	4	2024
Deliveries: PM FRP 1 Delivery	4	2025	4	2026
Deliveries: PM FRP 2 Delivery	1	2027	4	2028
<i>Helmet and Mask Regulator Program</i>				
Acquisition Milestones: Milestones: HMR Helmet Milestone C	1	2026	1	2026

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9099 / Physiological Episodes
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Acquisition Milestones: Milestones: HMR Mask Milestone C	1	2026	1	2026
Acquisition Milestones: Milestones: HMR Regulator Milestone C	4	2027	4	2027
Acquisition Milestones: Milestones: HMR Helmet IOC	2	2027	2	2027
Acquisition Milestones: Milestones: HMR Mask IOC	2	2027	2	2027
Acquisition Milestones: Milestones: HMR Regulator IOC	1	2029	1	2029
Acquisition Milestones: Phases: HMR Engineering & Manufacturing Development Phase	1	2023	4	2029
Acquisition Milestones: Phases: HMR Production & Deployment Phase	1	2026	4	2029
System Development: Reviews: HMR Helmet SysVer/Production TIM	3	2025	3	2025
System Development: Reviews: HMR Helmet FCA/PCA	4	2025	4	2025
System Development: Reviews: HMR Mask Spec TIM	3	2024	3	2024
System Development: Reviews: HMR Mask Design TIM	1	2025	1	2025
System Development: Reviews: HMR Mask TRA	2	2025	2	2025
System Development: Reviews: HMR Regulator Spec TIM	1	2025	1	2025
System Development: Reviews: HMR Regulator Design TIM 1	3	2025	3	2025
System Development: Reviews: HMR Regulator Design TIM 2	1	2026	1	2026
System Development: Reviews: HMR Regulator TRA	3	2026	3	2026
Test & Evaluation: HMR Helmet Lab/Ground Testing	4	2024	2	2025
Test & Evaluation: HMR Helmet Flight Tests	3	2025	1	2026
Test & Evaluation: HMR Mask Lab/Ground Testing	1	2025	3	2025
Test & Evaluation: HMR Mask Flight Tests	4	2025	1	2026
Test & Evaluation: HMR Regulator Lab/Ground Testing	3	2026	2	2027
Test & Evaluation: HMR Regulator Flight Tests	3	2027	4	2027
Production Milestones: Contract Award: HMR Helmet Contract Award	2	2024	2	2024
Production Milestones: Contract Award: HMR Mask Contract Award	2	2024	2	2024
Production Milestones: Contract Award: HMR Regulator Contract Award	1	2025	1	2025

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 9099 / <i>Physiological Episodes</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: Contract Award: HMR Helmet Production Contract Award	1	2026	1	2026
Production Milestones: Contract Award: HMR Mask Production Contract Award	1	2026	1	2026
Production Milestones: Contract Award: HMR Regulator Production Contract Award	1	2028	1	2028
Deliveries: HMR Helmet Test Assets	4	2024	4	2024
Deliveries: HMR Mask Test Assets	1	2025	1	2025
Deliveries: HMR Regulator Test Assets	3	2026	3	2026
Deliveries: HMR Helmet LRIP/FRP	2	2026	4	2029
Deliveries: HMR Mask LRIP/FRP	3	2026	4	2029
Deliveries: HMR Regulator LRIP/FRP	1	2029	4	2029

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9999 / Congressional Adds
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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
9999: Congressional Adds	0.000	6.758	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6.758
Quantity of RDT&E Articles		45	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Congressional Add: Aircrew Systems Development/RW/TR Survival Vest Improvement Program
 The Aircrew Systems Development program provides Engineering and Manufacturing Development of Aviation Life Support Systems to protect aircrew and flight deck personnel from current and future threats. Emphasis will be on an RW/TR Aircrew Vest System, which is required to be worn on over-land and over-water missions. This system provides flotation, mobile aircrew restraint, hoisting capability, and serves as carriage for survival equipment and ballistic projectile armor. This funding provides for an improved RW/TR Aircrew Survival Vest to address safety and performance issues with the currently fielded solution. The new Aircrew Survival Vest System will improve the safety and performance of flight crews by providing improvements to flotation, mobility, thermal burden, emergency egress survivability, and overall weight and bulk.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024
Congressional Add: Aircrew systems development	6.758	0.000
FY 2023 Accomplishments: Perform System Requirements Review, evaluate potential design changes to existing DoD system components, perform developmental testing, award contract to procure additional test assets		
FY 2024 Plans: Complete qualification testing, perform training and aircrew fitment.		
Congressional Adds Subtotals	6.758	0.000

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
• RDTE/0604264N/0606: Air Crew Systems Development	0.000	1.053	2.600	-	2.600	0.000	0.000	0.000	0.000	0.000	3.653
• OPN/4268: Enter Other Funding Description.	0.000	0.000	7.495	-	7.495	7.500	0.000	0.000	0.000	0.000	14.995

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>

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

FY23 RDTE funding in support of Aircrew Systems Development/RW/TR Survival Vest Improvement Program received through Congressional Add. Budgeted FY24 RDTE funding received under PE 0604264N/PU 0606. Aircrew Systems Development/RW/TR Survival Vest Improvement Program funding is only a portion of OPN Line Item 4268.

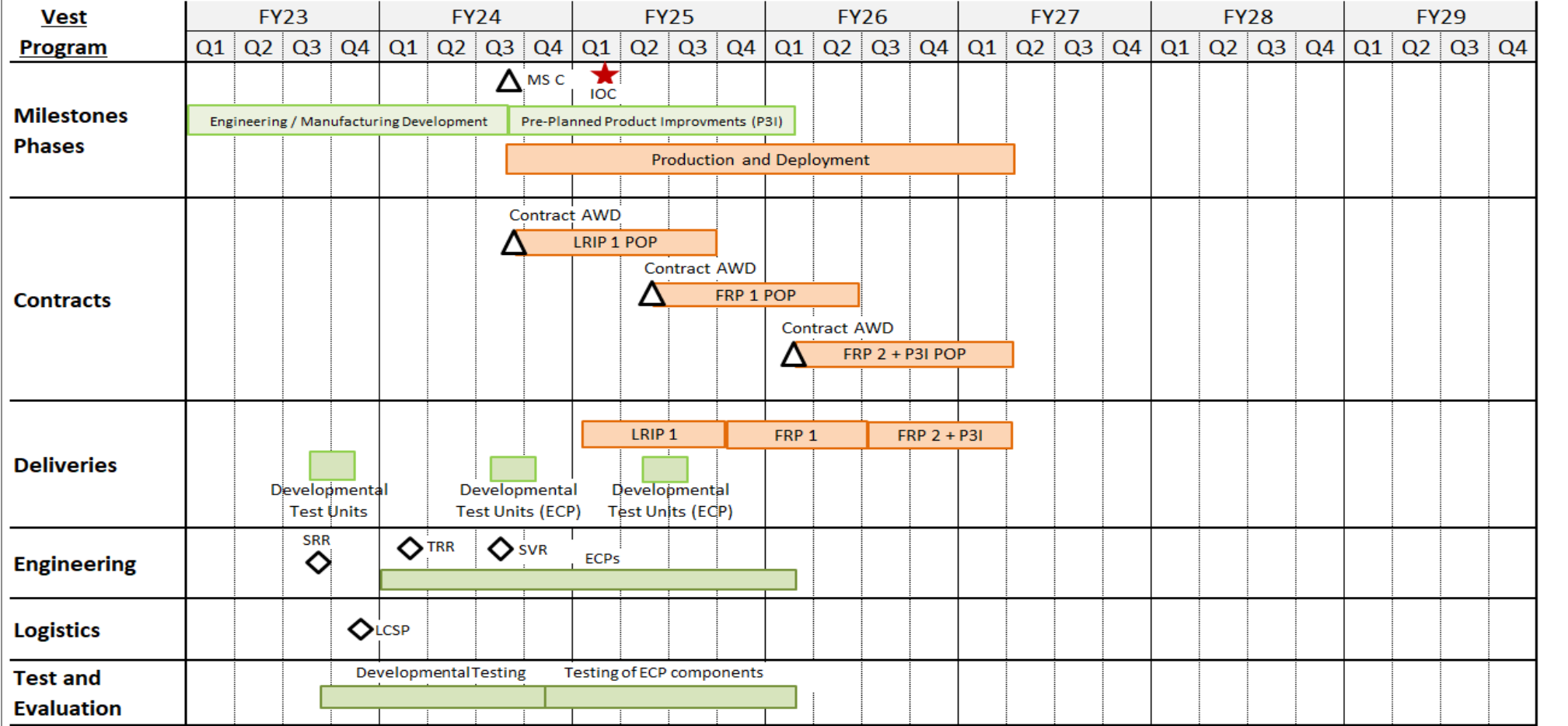
D. Acquisition Strategy

Non-developmental products will be evaluated in order to field a safe and effective system as soon as practical. The acquisition strategy includes leveraging existing contracts, the use of partnership intermediary agreements to improve existing component designs, and the application of streamlining initiatives.

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9999 / Congressional Adds
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Note: Schedule reflects FY23 RDTE funding received through Congressional Add and budgeted FY24 RDTE funding received under PE 0604264N/PU 0606.

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development	Project (Number/Name) 9999 / Congressional Adds

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Vest Program				
Acquisition Milestones: Milestones: Vest Milestone C	3	2024	3	2024
Acquisition Milestones: Milestones: Vest IOC	1	2025	1	2025
Acquisition Milestones: Phases: Vest Engineering & Manufacturing Development Phase	1	2023	3	2024
Acquisition Milestones: Phases: Vest Pre-Planned Product Improvements Phase	3	2024	1	2026
Acquisition Milestones: Phases: Vest Production & Deployment Phase	3	2024	2	2027
Systems Development: Reviews: Vest SRR	3	2023	3	2023
Systems Development: Reviews: Vest TRR	1	2024	1	2024
Systems Development: Reviews: Vest SVR	3	2024	3	2024
Test and Evaluation: Vest Developmental Testing	3	2023	4	2024
Test and Evaluation: Vest Testing of ECP Components	4	2024	1	2026
Production Milestones: Contract Awards: Vest LRIP 1 (OPN) Contract Award	3	2024	3	2024
Production Milestones: Contract Awards: Vest FRP 1 (Option) Contract Award	2	2025	2	2025
Production Milestones: Contract Awards: Vest FRP 2 (Option) Contract Award	1	2026	1	2026
Deliveries: Vest Developmental Test Units Delivery	3	2023	4	2023
Deliveries: Vest Developmental Test Units 1 (ECP) Delivery	3	2024	4	2024
Deliveries: Vest Developmental Test Units 2 (ECP) Delivery	2	2025	3	2025
Deliveries: Vest LRIP 1 Delivery	1	2025	4	2025
Deliveries: Vest FRP 1 Delivery	4	2025	3	2026
Deliveries: Vest FRP 2 Delivery	3	2026	2	2027