Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0604757N *I Ship Self Def (Engage: Soft Kill/EW)*							
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	810.568	96.476	125.206	165.599	-	165.599	93.423	51.621	51.036	52.103	Continuing	Continuing
0954: *Shipboard EW Improvement Program*	99.286	20.065	53.503	17.405	-	17.405	25.904	16.911	16.991	17.348	Continuing	Continuing
2190: *NULKA Decoy*	64.010	6.168	5.326	4.837	-	4.837	6.048	6.184	5.533	5.650	Continuing	Continuing
3068: *Long Endurance Electronic Decoy (LEED)*	10.637	38.080	39.364	83.369	-	83.369	21.467	21.419	21.745	22.198	Continuing	Continuing
3316: *Advanced Offboard EW*	353.283	26.050	18.107	14.474	-	14.474	7.957	0.816	0.839	0.857	Continuing	Continuing
3321: *SEWIP Block 3*	283.352	6.113	8.906	4.978	-	4.978	6.537	6.291	5.928	6.050	Continuing	Continuing
3469: *Scaled Onboard Electronic Attack*	0.000	0.000	0.000	40.536	-	40.536	25.510	0.000	0.000	0.000	0.000	66.046

A. Mission Description and Budget Item Justification

0954 - The Surface Electronic Warfare Improvement Program (SEWIP) is segmented into Block 1A, Block 1B, Block 2, Block 3 and Soft Kill Coordination System (SKCS). Block 1A upgraded the AN/SLQ-32 pulse-processing computers. Block 1B added adjunct sensors, including Specific Emitter Identification (SEI), and High Gain High Sensitivity (HGHS) (Block 1B3), a critical improvement for extending the battle space. Block 2 enhanced Surface Electronic Warfare (EW) and provided improved Anti-Ship Missile Defense (ASMD) and situational awareness (SA) through an improved Electronic Support (ES) receiver, antenna, and combat system interface. The addition of Block 2 to Block 1B3 forms the AN/SLQ-32(V)6. Block 3 will provide an enhanced Onboard Electronic Attack (EA) capability to improve ASMD and counter-targeting. The addition of Block 3 to AN/SLQ-32(V)6 forms the AN/SLQ-32(V)7 system. The SKCS will provide SK weapon coordination and enhanced situational awareness to the AN/SLQ-32(V)6 and (V)7 with EW/radar track association to support Softkill (SK) engagement decisions. EW Rapid Capability Insertion Process (RCIP) identifies system and mission capability gaps by analyzing EW baseline and fleet requirements, prioritizes those gaps based on fleet input and critical technology maturity, and develops upgrades to the AN/SLQ-32(V) product line to address those gaps. RCIP also integrates Future Naval Capability (FNC) programs into SEWIP.

Scaled Onboard Electronic Attack (SOEA) is an incremental development program added under PU 0954 by the USN to provide an advanced Electronic Attack (EA) capability against anti-ship missiles that initiates in FY24. The developmental efforts transition to a new project under PU 3469 for FY25 and FY26.

The FY25 budget request supports continued development, test and integration of SKCS with AEGIS Baseline (BL) 9 and BL 10, year five efforts for RCIP #7 which analyzes and designs hardware upgrades to improve signal throughput and system reliability, and continues RCIP #8 to improve anti-ship missile defense capability of SLQ-32(V)6/7 when operating with other netted EW sensors and effectors. In FY25, RCIP #6 initiates efforts to implement Built In Test and Signal Processing. Since the FY24 budget request, RCIP #10, #11, and #12 have been added for Measurement Based Adaptive Response, the Electronic Warfare (EW) Planning Aid, and the Tactical Simulator (TACSIM) Technology Refresh.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604757N *I Ship Self Def (Engage: Soft Kill/EW)*

2190 - The Offboard Active Decoy (Nulka) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. Nulka counters a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket.

The FY25 budget request includes Decoy Launcher Processor (DLP) Nulka Objective Architecture backward compatibility technology with Soft Kill Coordination System (SKCS). The Objective Architecture development will continue which provides improved Nulka decoy deployment as well as SKCS integration.

3068 - The Long Endurance Electronic Decoy (LEED) program will deliver an expendable long endurance autonomous off-board decoy Countermeasure system, comprised of a flight vehicle and Radio Frequency (RF) payload with modular capability allowing for rapid modification of the Electronic Warfare (EW) payload. LEED development executes under a middle tier rapid prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act. LEED will integrate with SLQ-32 and address EW gaps in response to a fleet requirement to counter Anti-Ship Missile (ASM) threats. LEED will provide the fleet with enhanced EW coordination and capability, including the ability to stretch engagement timelines and counter heterogeneous missile attacks.

The overarching LEED strategy consists of two phases including a Middle Tier of Acquisition Rapid Prototyping (MTA RP) phase followed by Major Capability Acquisition. The MTA RP phase will include Preliminary and Intergrated Countermeasure Prototype Development (FY21-FY25), and Integrated System Testing (FY24-FY25). The MTA RP phase includes the development and test of operational-level Countermeasure prototypes, launch systems, and control software that demonstrate and validate critical capabilities, including flight performance, control, and RF functionality. Data collected from the initial prototypes will be used to develop Engineering Development Models (EDMs) for Qualification Testing to support a Milestone C decision for Low Rate Initial Production (LRIP) as LEED enters the Major Capability Acquisition phase. LRIP will be executed under a follow-on production OTA and will include the procurement and fielding of production representative units for at-sea capability assessments (FY28) of the Countermeasure system, while LEED transitions to full production and sustainment.?

LEED will be developed alongside the Office of Naval Research (ONR) Long Endurance Airborne Platform (LEAP) Project, which began in FY21. LEED will leverage technologies developed and matured under the ONR LEAP Project.

The FY25 funding request supports the completion of integrated system testing, EDM delivery, and continued LEED integrated countermeasure development at the prime contractor. This includes material purchases, system/subsystem integration, and early prototype system demonstrations that support rapid design improvement. The FY25 funding increase supports the design's completion, government testing, and product support elements in order to enable rapid fielding in accordance with Fleet priorities.

3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination to counter identified EW gaps (additional details classified) in response to an urgent operational need from the Fleet that has been approved by the CNO for execution. In FY 2012, the program began with a Rapid Response Effort (RRE) which was completed in FY 2014. The RRE consisted of the evaluation and integration of commercially available decoys. The Decoy Development Effort (DDE) consists of the development and evaluation of a long duration, active electronic offboard decoy

system (payload) integrated on an existing flight vehicle (MH-60R/MH-60S), integration with ship and air systems, and a government software development effort to integrate AOEW into the Soft Kill Coordination System (SKCS) to gain maximum effectiveness from the decoy through coordination with an onboard system.

In the DDE/E&MD Contract effort, which commenced in 2017, the program is developing and integrating Engineering Development Models (EDMs) with the System of Systems (SOS) partners to include conduct of Factory Qualification Testing (FQT), preparation for the program's test phase ramping up in Q2FY23, and FY23 delivery of the Technical Data Package (TDP). Schedule shifts in program testing and delivery of TDP are due to test complexity.

As part of the MH-60R/S Flight Certification effort, the program is required to complete NAVAIR Avionics Operating Program (AOP) software development and Flight Certification, which are critical to support fielding of the AOEW decoy. The AOP software supports integration of the AOEW decoy with the MH-60R/S airframe and is required for successful completion of Flight Certification. AOP software development was completed in FY21. Flight Certification testing includes Ground and Flight Jettison, Flight Test for Mission Performance / Spec Compliance Flight Test, Functional Software Test, and Decoy Fit and Egress Test, which ensures operational Safety of Flight and is critical to successful decoy fielding.

The FY25 budget request supports NAVAIR conduct of Avionics Operating Program (AOP) MH-60R and MH-60S Software Testing necessary for AOEW Decoy and Helicopter Integration into the baseline and NAVAIR Air Worthiness and Flight Certification.

3321 - SEWIP Block 3 is developing an advanced Electronic Attack (EA) capability to keep pace with the evolving Anti-Ship Missile (ASM) threat and counter-targeting required for the AN/SLQ-32(V) system. SEWIP Block 3 will provide the AN/SLQ-32(V)7 system for all surface ships (CVN, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new construction platforms.

The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. SEWIP Block 3 will continue to expand the integrated shipboard combat system by providing new integrated EA transmitters, arrays, and associated EA techniques. The AN/SLQ-32(V)7 integrates the new EA countermeasure (SEWIP Block 3) with the AN/SLQ-32(V)6. The AN/SLQ-32(V)6 includes an Electronic Support (ES) receiver (SEWIP Block 2), a High Gain High Sensitivity (HGHS) receiver (SEWIP Block 1B3), a Specific Emitter Identifier (SEI) receiver (SEWIP Block 1B2), display console, and backend electronics. SEWIP Block 3 includes the government software development and integration effort for a SoftKill Coordinator (SKC) to manage EA engagements. SEWIP Block 3 is developing an Electronic Warfare Test Bed (EWTB) to validate system performance via modeling and simulation. SEWIP Block 3 is also investigating higher efficiency Gallium Nitride (GaN) High Power Amplifiers (HPA). GaN HPAs are used in maritime advanced technology radar and surface electronic warfare systems. For radar and electronic warfare systems, this will yield technology to incorporate and integrate into radar and electronic warfare Transmit/ Receive Module designs, with a beneficial impact of improved Power Added Efficiency (PAE) for the systems resulting in a reduction in power draw from ship's service electrical power for the same radar and electronic warfare system performance.

To keep pace with evolving ASM threats and counter-targeting, SEWIP Block 3 will incorporate capability improvements via a technology insertion plan. This capability improvement plan will mature, develop, and validate technology solutions to improve capability for insertion into SEWIP Block 3 upgrades. Technology solutions will result in technical data packages with Government-owned data rights. Solutions will be incorporated into the SEWIP Block 3 technical data packages for incorporation into production and/or back-fit of fielded systems.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604757N *I Ship Self Def (Engage: Soft Kill/EW)*

The FY25 funding request for SEWIP Block 3 will focus on the conduct of Technical Evaluation (TECHEVAL)/Initial Operational Test & Evaluation (IOT&E) and the Full Rate Production (FRP) Decision Review (DR). Software and Hardware baseline upgrades, training curriculum development and EW Testbed model upgrades will continue. HPA efficiency design and development efforts to reduce required power and fuel consumption will conclude. Block 3 Capability Improvements will commence in FY25.

3469 - Scaled Onboard Electronic Attack (SOEA) is an incremental development program added under PU 0954 by the USN to provide an advanced Electronic Attack (EA) capability against anti-ship missiles that initiates in FY24. The developmental efforts transition to a new project under PU 3469 for FY25 and FY26. SOEA will assimilate into the Surface Electronic Warfare Improvement Program (SEWIP) family of shipboard Electronic Warfare systems. The program is intended to be scalable for Surface Combatants with size, weight, power, and cooling (SWaP-C) constraints that cannot support AN/SLQ-32(V)7 (SEWIP Block 3) installation; however, it is not meant as a replacement for SLQ-32(V)7. SOEA development executes under a Middle Tier Rapid Prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act.

SOEA's acquisition strategy consists of two phases: Rapid Prototyping and Rapid Fielding. SOEA Phase 1 includes prototyping of critical technology elements (CTEs) via the Defense Microelectronics Agency (DMEA) to prove out and validate critical performance capability, system architecture functionality, supportability requirements and improvements that build on the CTEs, update external interfaces for system and platform integration and incorporate software improvements. SOEA Phase 2 will be the fielding of the capability developed in Phase 1.

The SOEA Middle Tier Acquisition (MTA) leverages technology developed by the Office of Naval Research's (ONR) and Naval Research Laboratory (NRL).

SOEA will continue to expand the integrated shipboard combat system by providing new integrated EA capability. SOEA will be integrated with AN/SLQ-32(V)6. SOEA includes a government software development and integration effort for a Soft-Kill Coordinator System (SKCS) to manage EA engagements.

The FY25 budget request for SOEA supports Rapid Prototype Development #1, #2, and #3 to prove out and validate critical performance capability, system architecture functionality, and supportability requirements; failure mode analyses and initiating development of the SOEA training modules of the Surface Electronic Warfare Tactical Trainer (SEWTT).

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy					Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*			R-1 Program Element (Number/Name) PE 0604757N *I Ship Self Def (Engage: Soft Kill/EW)*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	97.537	125.206	134.320	-	134.320
Current President's Budget	96.476	125.206	165.599	-	165.599
Total Adjustments	-1.061	0.000	31.279	-	31.279
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.013	0.000			
• SBIR/STTR Transfer	-1.049	0.000			
• Program Adjustments	0.000	0.000	31.127	-	31.127
• Rate/Misc Adjustments	0.001	0.000	0.152	-	0.152

Change Summary Explanation

FY23 funding decrease of $1.061M is due to a decrease for SBIR reductions ($1.049M), miscellaneous rate adjustment increase ($0.001M), and reprogramming reduction ($0.013M).

FY25 funding increase of $31.127M is due to program adjustments and Rate/Misc Adjustments increase ($0.152M).

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 0954 / *Shipboard EW Improvement Program*	

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
0954: *Shipboard EW Improvement Program*	99.286	20.065	53.503	17.405	-	17.405	25.904	16.911	16.991	17.348	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

0954 - The Surface Electronic Warfare Improvement Program (SEWIP) is segmented into Block 1A, Block 1B, Block 2, Block 3 and Soft Kill Coordination System (SKCS). Block 1A upgraded the AN/SLQ-32 pulse-processing computers. Block 1B added adjunct sensors, including Specific Emitter Identification (SEI), and High Gain High Sensitivity (HGHS) (Block 1B3), a critical improvement for extending the battle space. Block 2 enhanced Surface Electronic Warfare (EW) and provided improved Anti-Ship Missile Defense (ASMD) and situational awareness (SA) through an improved Electronic Support (ES) receiver, antenna, and combat system interface. The addition of Block 2 to Block 1B3 forms the AN/SLQ-32(V)6. Block 3 will provide an enhanced Onboard Electronic Attack (EA) capability to improve ASMD and counter-targeting. The addition of Block 3 to AN/SLQ-32(V)6 forms the AN/SLQ-32(V)7 system. The SKCS will provide SK weapon coordination and enhanced situational awareness to the AN/SLQ-32(V)6 and (V)7 with EW/radar track association to support Softkill (SK) engagement decisions. EW Rapid Capability Insertion Process (RCIP) identifies system and mission capability gaps by analyzing EW baseline and fleet requirements, prioritizes those gaps based on fleet input and critical technology maturity, and develops upgrades to the AN/SLQ-32(V) product line to address those gaps. RCIP also integrates Future Naval Capability (FNC) programs into SEWIP.

Scaled Onboard Electronic Attack (SOEA) is an incremental development program added under PU 0954 by the USN to provide an advanced Electronic Attack (EA) capability against anti-ship missiles that initiates in FY24. The developmental efforts transition to a new project under PU 3469 for FY25 and FY26.

The FY25 budget request supports continued development, test and integration of SKCS with AEGIS Baseline (BL) 9 and BL 10, year five efforts for RCIP #7 which analyzes and designs hardware upgrades to improve signal throughput and system reliability, and continues RCIP #8 to improve anti-ship missile defense capability of SLQ-32(V)6/7 when operating with other netted EW sensors and effectors. In FY25, RCIP #6 initiates efforts to implement Built In Test and Signal Processing. Since the FY24 budget request, RCIP #10, #11, and #12 have been added for Measurement Based Adaptive Response, the Electronic Warfare (EW) Planning Aid, and the Tactical Simulator (TACSIM) Technology Refresh.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Scaled Onboard Electronic Attack (SOEA)	0.000	38.178	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: - Complete Middle Tier Acquisition (MTA) Designation #1 Documentation - Conduct MTA Designation Review #1					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Award multiple Defense Microelectronics Agency (DMEA) contracts to prototype critical technology elements (CTEs) - Commence test planning to collect evidence for verification of requirements - Commence platform integration studies - Commence modularity specifications development - Commence MTA Phase 1 preliminary prototypes to prove out and validate critical performance capability, system architecture functionality, and supportability requirements. ***FY 2025 Base Plans:*** N/A ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY24 to FY25 is due to the realignment of Scaled Onboard Electronic Attack (SOEA) from PU 0954 to PU 3469 in FY25.					
Title: Electronic Warfare Rapid Capability Insertion Process (EW RCIP)	20.065	15.325	17.405	0.000	17.405
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue RCIP #4 SKCS efforts to address platform gaps for automatic and semi-automatic engagements using Nulka decoys, onboard Electronic Attack (EA) (AN/SLQ-32 (V)7), and offboard EA systems; Continue software development and system integration and testing activities for delivery of completed software builds with capabilities including coordination of Nulka and combination engagements with AN/SLQ-32(V)6, AN/ SLQ-32(V)7, and offboard EW for enhanced coordination technique deployment; Continue integration and testing activities in support of AEGIS ACB 20 (Baseline 10) by participating in AEGIS ACB 20 integration events and preparing a fully tested software build for element certification; Complete SKCS FQT25 for a software build in support of AN/SLQ-32(V)6, and continue to participate in system integration events with AN/ SLQ-32(V)6, AN/SLQ-32(V)7 and Offboard EW; Continue SSDS ACB 20, OPC, and FFG(X) integration support efforts. Continue development of SKCS automated software test lab using cloud computing resources. - Continue SEWTT development of trainer enhancements including additional SKCS, and Offboard EW capabilities; Continue development of trainer enhancements for SLQ-32(V)7's Onboard EA.					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Continue RCIP #7 HW Processing & Reliability improvements which focus on increasing the AN/SLQ-32(V)6 operator's tactical situational awareness and confidence in both system performance and availability; Evaluate the current state of system components and analyze candidate hardware upgrades to increase system emitter processing throughput, reduce false detections/classifications, increase system fault tolerance and simplify maintenance. Develop a system product baseline in preparation for implementation of a system prototype. Initiate collaborative development with the SLQ-32 Signal Identification Improvement (SI2) FNC. - Continue RCIP #8 Netted Electronic Warfare Directed Engagement Logic (NEWDEL) improvements to the AN/ SLQ-32(V)6 and AN/SLQ-32(V)7 to improve EW operator control and awareness of EW assets connected via tactical data links. Develop a Tactical Computer Software Configuration Item (CSCI) for the AN/SLQ-32(V)6 and (V)7 to monitor and control netted EW assets for improved anti-ship missile defense performance. - Identify additional EW technology shortfalls and capability gaps based on the current and emerging Anti-Ship Missile (ASM) threats and fleet requirements; Solicit industry, University Affiliate Research Centers or government activities for technical solutions; Evaluate and select RCIP technology candidates; Evaluate RCIP technologies production readiness. - Develop execution plans for selected candidates based on evaluated readiness and countermeasure technology prioritization. - Complete RCIP #9 Shipboard EW Self-Protection improvements against Anti-Ship Missiles (ASMs).					
FY 2025 Base Plans: - Continue RCIP #4 SKCS efforts to address platform gaps for automatic and semi-automatic engagements using Nulka decoys, onboard Electronic Attack (EA) (AN/SLQ-32 (V)7), and offboard EA systems; Continue software development and system integration and testing activities for delivery of completed software builds with capabilities including coordination of Nulka and combination engagements with AN/SLQ-32(V)6, AN/ SLQ-32(V)7, and offboard EW for enhanced coordination technique deployment; Continue integration and testing activities in support of AEGIS ACB 20 (Baseline 10) by participating in AEGIS ACB 20 integration events and preparing a fully tested software build for element certification; Complete SKCS FQT25 for a software build in support of AN/SLQ-32(V)6, and continue to participate in system integration events with AN/ SLQ-32(V)6, AN/ SLQ-32(V)7 and Offboard EW; Continue SSDS ACB 20, OPC, and FFG(X) integration support efforts. Continue development of SKCS automated software test lab using cloud computing resources. - Continue SEWTT development of trainer enhancements including additional SKCS, and Offboard EW capabilities; Continue development of trainer enhancements for SLQ-32(V)7's Onboard EA. - Complete and transition to production of RCIP #7 HW Processing & Reliability improvements which focus on increasing the AN/SLQ-32(V)6 operator's tactical situational awareness and confidence in both system					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
performance and availability; Evaluate the current state of system components and analyze candidate hardware upgrades to increase system emitter processing throughput, reduce false detections/classifications, increase system fault tolerance and simplify maintenance. Develop a system product baseline in preparation for implementation of a system prototype. Continue collaborative development with the SLQ-32 Signal Identification Improvement (SI2) FNC. - Continue RCIP #8 Netted Electronic Warfare Directed Engagement Logic (NEWDEL) improvements to the AN/ SLQ-32(V)6 and AN/SLQ-32(V)7 to improve EW operator control and awareness of EW assets connected via tactical data links. Develop a Tactical Computer Software Configuration Item (CSCI) for the AN/SLQ-32(V)6 and (V)7 to monitor and control netted EW assets for improved anti-ship missile defense performance. - Initiate RCIP #6 Built In Test & Signal Processing to re-architect system fault detection and fault identification algorithms. - Initiate RCIP #10 Measurement Based Adaptive Response (M-BAR). Initiate collaborative development with the M-BAR FNC to transition technology that improves anti-ship missile defense performance. Develop a tactical Firmware update to the AN/SLQ-32(V)7 to implement adaptable Electronic Attack techniques and reduce system dependency on threat signature intelligence data. - Initiate RCIP #11 Electronic Warfare (EW) Planning Aid to provide tactical decision makers a tool that visualizes and informs how to best employ electronic warfare assets to maximize survivability while ship(s) execute mission tasking. Tool informs ship positioning, non-kinetic response effectiveness, doctrine statements, & Pre-Planned Responses. - Initiate RCIP #12 TACSIM Technology Refresh for updated hardware and software to enable early integration and test of AN/ SLQ-32(V)6/7 tactical software. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase from FY24 to FY25 is due to additional tasking for RCIP #6 BIT & Signal Processing, RCIP #10 M-BAR, RCIP #11 EW Planning Aid, and RCIP #12 TACSIM Technology Refresh.					
Accomplishments/Planned Programs Subtotals	20.065	53.503	17.405	0.000	17.405

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

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/2312: *OPN BA-2 AN/SLQ-32(V)*	291.832	329.513	184.349	-	184.349	513.174	589.535	601.748	614.664	5,104.631	10,646.618
• OMN PE 0204575N: *OMN BA-1 AN/SLQ-32(V)*	4.620	5.004	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	39.140

Remarks

D. Acquisition Strategy

RCIP matures, develops and validates technology solutions to address requirements gaps for insertion into SEWIP Block upgrades. Technology solutions result in Government owned technical data packages with Government owned data rights. Solutions are incorporated into the SEWIP Block technical data packages for incorporation into production and/or back-fit of fielded systems. Acquisition strategy supports full and open completion for technical solutions.

Scaled Onboard Electronic Attack (SOEA) is an incremental development program added under PU 0954 by the USN to provide an advanced Electronic Attack (EA) capability against anti-ship missiles that initiates in FY24. The developmental efforts transition to a new project under PU 3469 for FY25 and FY26. The full acquisition strategy for SOEA can be found under PU 3469.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 0954 / *Shipboard EW Improvement Program*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RCIP #4 SKCS	SS/CPFF	JHU APL : Laurel, MD	12.032	1.879	Mar 2023	1.794	Dec 2023	1.525	Dec 2024	-		1.525	Continuing	Continuing	Continuing
RCIP #4 SKCS	WR	NSWC Dahlgren : Dahlgren, VA	25.587	4.982	Oct 2022	5.012	Nov 2023	4.427	Nov 2024	-		4.427	Continuing	Continuing	Continuing
RCIP #5 TACSIM	WR	NSWC Dahlgren : Dahlgren, VA	5.534	0.000		0.000		0.000		-		0.000	0.000	5.534	-
SEWTT Development	SS/CPFF	EWA : Fairmont, WV	2.319	0.242	Dec 2022	0.249	Nov 2023	0.254	Nov 2024	-		0.254	Continuing	Continuing	Continuing
CESARS	WR	NRL : Washington, DC	1.411	0.000		0.000		0.000		-		0.000	0.000	1.411	-
PCAP	WR	NRL : Washington DC	0.643	0.050	Mar 2023	0.000		0.000		-		0.000	0.000	0.693	-
PCAP	C/CPFF	LM : Syracuse, NY	0.603	0.025	Mar 2023	0.000		0.000		-		0.000	0.000	0.628	-
RCIP #7 HW Processing & Reliability Improvements	C/CPFF	LM : Syracuse, NY	6.147	3.857	Oct 2022	3.180	Nov 2023	1.833	Nov 2024	-		1.833	Continuing	Continuing	Continuing
AN/SLQ-32(V)6 and (V)7 SW Algorithm Enhancements	MIPR	MIT : Hanscom AFB, MA	1.299	0.000		0.000		0.000		-		0.000	0.000	1.299	-
RCIP #4 SKCS	C/CPFF	IDT : San Jose, CA	0.601	0.210	Feb 2023	0.100	Apr 2024	0.100	Apr 2025	-		0.100	Continuing	Continuing	Continuing
RCIP #8 Netted EW Improvements	SS/CPFF	JHU APL : Laurel, MD	0.000	0.265	Mar 2023	0.496	Dec 2023	1.060	Dec 2024	-		1.060	Continuing	Continuing	Continuing
RCIP #8 Netted EW Improvements	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.610	Oct 2022	0.983	Nov 2023	1.940	Nov 2024	-		1.940	Continuing	Continuing	Continuing
RCIP#9 Shipboard EW Self-Protection Improvements	C/FFP	Cobham : Dorset, England, UK	0.000	4.500	Apr 2023	0.000		0.000		-		0.000	0.000	4.500	-
RCIP #6 BIT & Signal Processing	C/CPFF	LM : Syracuse, NY	0.000	0.000		0.000		0.500	Apr 2025	-		0.500	Continuing	Continuing	Continuing
RCIP #10 M-BAR	WR	NRL : Washington DC	0.000	0.000		0.000		0.683	Apr 2025	-		0.683	Continuing	Continuing	Continuing
RCIP #11 EW Planning Aid	TBD	TBD : TBD	0.000	0.000		0.000		0.683	Apr 2025	-		0.683	Continuing	Continuing	Continuing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 0954 / *Shipboard EW Improvement Program*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RCIP #12 TACSIM Tech Refresh	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.000		0.250	Nov 2024	-		0.250	Continuing	Continuing	Continuing
SOEA Rapid Prototype Development #1	SS/FFP	TBD : TBD	0.000	0.000		9.071	Apr 2024	0.000		-		0.000	0.000	9.071	-
SOEA Rapid Prototype Development #2	SS/FFP	TBD : TBD	0.000	0.000		9.072	May 2024	0.000		-		0.000	0.000	9.072	-
SOEA Rapid Prototype Development #3	SS/FFP	TBD : TBD	0.000	0.000		9.071	Apr 2024	0.000		-		0.000	0.000	9.071	-
		Subtotal	56.176	16.620		39.028		13.255		-		13.255	Continuing	Continuing	N/A

Remarks

- Increase in RCIP #8 Netted EW Improvements from FY24 to FY25 is due to additional resources required for the build and integration of the Netted Electronic Warfare Directed Engagement Logic (NEWDEL) Computer Software Configuration Item (CSCI) for the AN/SLQ 32(V)6 and (V)7.
- In FY25, RCIP #6 BIT & Signal Processing is initiating to re-architect system fault detection and fault identification algorithms.
- In FY25, RCIP #10 M-BAR is initiating to transition technology that improves anti-ship missile defense performance and develop a tactical Firmware update to the AN/SLQ-32(V)7 to implement adaptable Electronic Attack techniques and reduce system dependency on threat signature intelligence data.
- In FY25, RCIP #11 EW Planning Aid is initiating to provide tactical decision makers a tool that visualizes and informs how to best employ electronic warfare assets to maximize survivability while ship(s) execute mission tasking.
- In FY25, RCIP #12 TACSIM Tech Refresh is initiating to update hardware and software to enable early integration and test of AN/SLQ-32(V)6/7 tactical software.
- Overall decrease in Product Development from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Government Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	8.379	0.193	Nov 2022	0.198	Nov 2023	0.202	Nov 2024	-		0.202	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NSWC Crane : Crane, IN	7.251	0.438	Nov 2022	0.451	Nov 2023	0.460	Nov 2024	-		0.460	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NRL : Washington, DC	4.517	0.000		0.000		0.000		-		0.000	0.000	4.517	Continuing
Block 1 Government Engineering Support	SS/CPFF	APL : Laurel, MD	4.313	0.288	Nov 2022	0.296	Nov 2023	0.302	Nov 2024	-		0.302	Continuing	Continuing	Continuing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 0954 / *Shipboard EW Improvement Program*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Government Engineering Support	MIPR	MIT : Hanscom AFB, MA	4.089	0.671	Nov 2022	0.687	Nov 2023	1.165	Nov 2024	-		1.165	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	MIPR	DISA : Fort Meade, MD	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
SOEA Integrated Logistics Support	WR	NSWC Crane : Crane, IN	0.000	0.000		0.250	Feb 2024	0.000		-		0.000	0.000	0.250	-
SOEA Systems Engineering Support	WR	NSWC Crane : Crane, IN	0.000	0.000		0.500	Feb 2024	0.000		-		0.000	0.000	0.500	-
SOEA Systems Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		1.000	Feb 2024	0.000		-		0.000	0.000	1.000	-
SOEA Systems Engineering Support	WR	NRL : Washington, DC	0.000	0.000		5.984	Feb 2024	0.000		-		0.000	0.000	5.984	-
SOEA Systems Engineering Support	SS/CPFF	APL : Laurel, MD	0.000	0.000		1.000	Feb 2024	0.000		-		0.000	0.000	1.000	-
SOEA Platform Integration Studies	C/BA	TBD : Not Specified	0.000	0.000		0.500	Feb 2024	0.000		-		0.000	0.000	0.500	-
		Subtotal	28.599	1.590		10.866		2.129		-		2.129	Continuing	Continuing	N/A

Remarks

- Block 1 Government Engineering Support for MIT increases from FY24 to FY25 due to tasking required to support the addition of RCIP #10, #11, and #12.
- Overall decrease in Support from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC Dahlgren : Dahlgren, VA	4.052	0.458	Nov 2022	0.799	Nov 2023	0.580	Nov 2024	-		0.580	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane : Crane, IN	0.889	0.000		0.230	Nov 2023	0.000		-		0.000	0.000	1.119	-
Developmental Test & Evaluation (DT&E)	WR	NRL : Washington, DC	2.476	0.000		0.500	Nov 2023	0.000		-		0.000	0.000	2.976	-

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 0954 / *Shipboard EW Improvement Program*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	SS/CPFF	APL : Laurel, MD	0.100	0.340	Aug 2023	0.559	Nov 2023	0.370	Nov 2024	-		0.370	0.000	1.369	-
Developmental Test & Evaluation (DT&E)	WR	COMOPTEVFOR : Norfolk, VA	0.282	0.050	Aug 2023	0.050	Nov 2023	0.000		-		0.000	0.000	0.382	-
		Subtotal	7.799	0.848		2.138		0.950		-		0.950	Continuing	Continuing	N/A

Remarks

- Decrease from FY24 to FY25 is due to the FY24 completion of SOEA test planning and verification of requirements in PU 0954, and the FY24 completion of the planned hardware upgrades to the test laboratory at NSWC Dahlgren in support of Softkill Coordination Subsystem integration compatibility.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, D.C.	1.698	0.405	Mar 2023	0.417	Nov 2023	0.425	Nov 2024	-		0.425	Continuing	Continuing	Continuing
Block 1 Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	2.442	0.595	Nov 2022	0.397	Nov 2023	0.405	Nov 2024	-		0.405	Continuing	Continuing	Continuing
Block 1 Program Management Support	C/CPIF	CACI (SEAPORT) : Washington, DC	0.962	0.000		0.000		0.000		-		0.000	0.000	0.962	-
Block 1 Travel	WR	NAVSEA Program Office Travel : Washington, DC	1.410	0.007	Jan 2023	0.021	Nov 2023	0.021	Nov 2024	-		0.021	Continuing	Continuing	Continuing
Block 1 Program Management Support	C/CPIF	BAH (SEAPORT) : Washington, DC	0.200	0.000	Mar 2023	0.216	Nov 2023	0.220	Nov 2024	-		0.220	Continuing	Continuing	Continuing
SOEA Program Management	C/CPFF	SPA (SEAPORT) : Washington, DC	0.000	0.000		0.250	Nov 2023	0.000		-		0.000	0.000	0.250	-
SOEA Program Management	C/CPFF	TBD BFM Support (SEAPORT) : TBD	0.000	0.000		0.150	Nov 2023	0.000		-		0.000	0.000	0.150	-
SOEA Program Management	Allot	NAVSEA Program Office Travel : Washington, DC	0.000	0.000		0.020	Nov 2023	0.000		-		0.000	0.000	0.020	-

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			6.712	1.007		1.471		1.071		-		1.071	Continuing	Continuing	N/A

Remarks

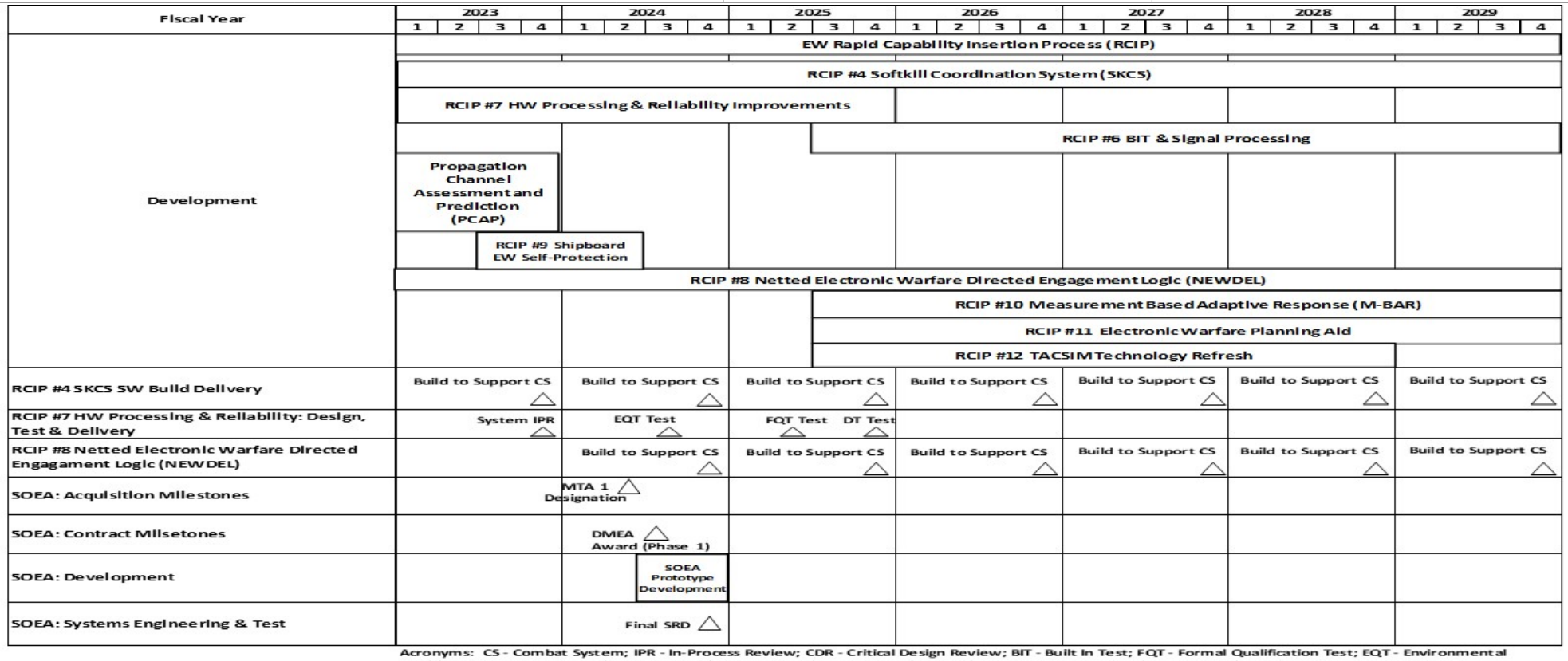
- The decrease in management services from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25.

	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	99.286	20.065		53.503		17.405		-		17.405	Continuing	Continuing	N/A

Remarks

Overall decrease from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*



Acronyms: CS - Combat System; IPR - In-Process Review; CDR - Critical Design Review; BIT - Built In Test; FQT - Formal Qualification Test; EQT - Environmental Qualification Test; SOEA - Scaled On-Board Electronic Attack; MTA - Middle Tier of Acquisition; DMEA - Defense Micro Electronics Agency; SRD - System Requirements Document

- *Since the FY24 Budget Request, RCIP #4, #6 and #8 will continue through the FYDP.*
- *Since the FY24 Budget Request, RCIP #6 has shifted from Q2 FY25 to Q3 FY25.*
- *Since the FY24 Budget Request, RCIP #10, #11, and #12 have been added to the schedule, and commence in Q3 FY25.*
- *Since the FY24 Budget Request, SOEA has been realigned from PU 0954 to PU 3469 in FY25. Remaining SOEA Protoype Development efforts will occur under PU 3469.*
- *Since the FY24 Budget Request, the aquistion strategy for SOEA has changed therefore preliminary prototypes are not required. This is reflected in the effort title change to SOEA Prototype Development.*
- *Since the FY24 Budget Request, SOEA CDD was replaced with SOEA SRD because SOEA will not have a CDD. Instead, SOEA has a Top Level Requirements (TLR) document. During development, TLR requirements will be decomposed further into a System Requirements Document (SRD).*

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 0954				
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): EW Rapid Capability Insertion Process (RCIP)	1	2023	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #4: SKCS	1	2023	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): Propagation Channel Assessment and Prediction (PCAP)	1	2023	4	2023
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #4 SKCS SW Build Delivery	1	2023	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #7: HW Processing & Reliability Improvements	1	2023	4	2025
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #7: HW Processing & Reliability Improvements - System Prototype Delivery	4	2023	4	2025
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #8 Netted Electronic Warfare Directed Engagement Logic (NEWDEL)	1	2023	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #6: BIT and Signal Processing	3	2025	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #9 Shipboard EW Self-Protection	3	2023	2	2024
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #10 Measurement Based Adaptive Response (M-BAR)	3	2025	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #11 Electronic Warfare (EW) Planning Aid	3	2025	4	2029
Electronic Warfare Rapid Capability Insertion Process (EW RCIP): RCIP #12 TACSIM Technology Refresh	3	2025	4	2028
Scaled Onboard Electronic Attack (SOEA): Prototype Development	3	2024	4	2024

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 0954 / *Shipboard EW Improvement Program*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Scaled Onboard Electronic Attack (SOEA): Middle Tier Acquisition Phase 1 Designation	2	2024	2	2024
Scaled Onboard Electronic Attack (SOEA): Defense Micro Electronics Agency (DMEA) Contract	3	2024	3	2024
Scaled Onboard Electronic Attack (SOEA): System Requirements Document (SRD)	4	2024	4	2024

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*				Project (Number/Name) 2190 / *NULKA Decoy*			
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**
2190: *NULKA Decoy*	64.010	6.168	5.326	4.837	-	4.837	6.048	6.184	5.533	5.650	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Offboard Active Decoy (Nulka) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. Nulka counters a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket.

The FY25 budget request includes Decoy Launcher Processor (DLP) Nulka Objective Architecture backward compatibility technology with Soft Kill Coordination System (SKCS). The Objective Architecture development will continue which provides improved Nulka decoy deployment as well as SKCS integration.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: NULKA Decoy Subsystem	6.168	5.326	4.837	0.000	4.837
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue engineering and effectiveness studies to evaluate new and existing threats; update Fly-Out Tactics table for specific platforms (as appropriate) - Continue to develop and test new Nulka library files to support new platforms with SKCS (as appropriate) - Continue DLP Nulka Objective Architecture backward compatibility technology with SKCS - Continue to support Nulka Objective Architecture integration with SKCS - Continue to develop Nulka Launch Management (NLMt) to support the Nulka Objective Architecture					
FY 2025 Base Plans: - Continue engineering and effectiveness studies to evaluate new and existing threats; update Fly-Out Tactics table for specific platforms (as appropriate) - Continue to develop and test new Nulka library files to support new platforms with SKCS (as appropriate) - Continue DLP Nulka Objective Architecture backward compatibility technology with SKCS - Continue to support Nulka Objective Architecture integration with SKCS - Continue to develop Nulka Launch Management (NLMt) to support the Nulka Objective Architecture					
FY 2025 OCO Plans:					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 2190 / *NULKA Decoy*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY24 to FY25 decrease is due to reduction in Nulka development to fund higher Navy priorities.					
Accomplishments/Planned Programs Subtotals	6.168	5.326	4.837	0.000	4.837

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/5530: *Anti-Ship Missile Decoy System*	86.091	56.630	95.557	-	95.557	127.763	140.854	139.394	132.170	903.558	1,868.519
• OMN/11CD0 (1C1C): *NULKA*	8.852	8.262	7.618	-	7.618	8.421	8.217	8.384	8.492	Continuing	Continuing

Remarks

D. Acquisition Strategy

Nulka is a joint cooperative program between United States and Australia.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 2190 / *NULKA Decoy*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	WR	NRL : Washington, DC	26.367	1.781	Oct 2022	1.761	Nov 2023	1.611	Nov 2024	-		1.611	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC Dahlgren : Dahlgren, VA	22.838	3.510	Jan 2023	2.867	Nov 2023	2.814	Nov 2024	-		2.814	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC Crane : Crane, IN	11.312	0.371	Oct 2022	0.297	Nov 2023	0.000		-		0.000	0.000	11.980	Continuing
		Subtotal	60.517	5.662		4.925		4.425		-		4.425	Continuing	Continuing	N/A

Remarks

FY24 to FY25 decrease is due to reduction in Nulka development to fund higher Navy priorities.

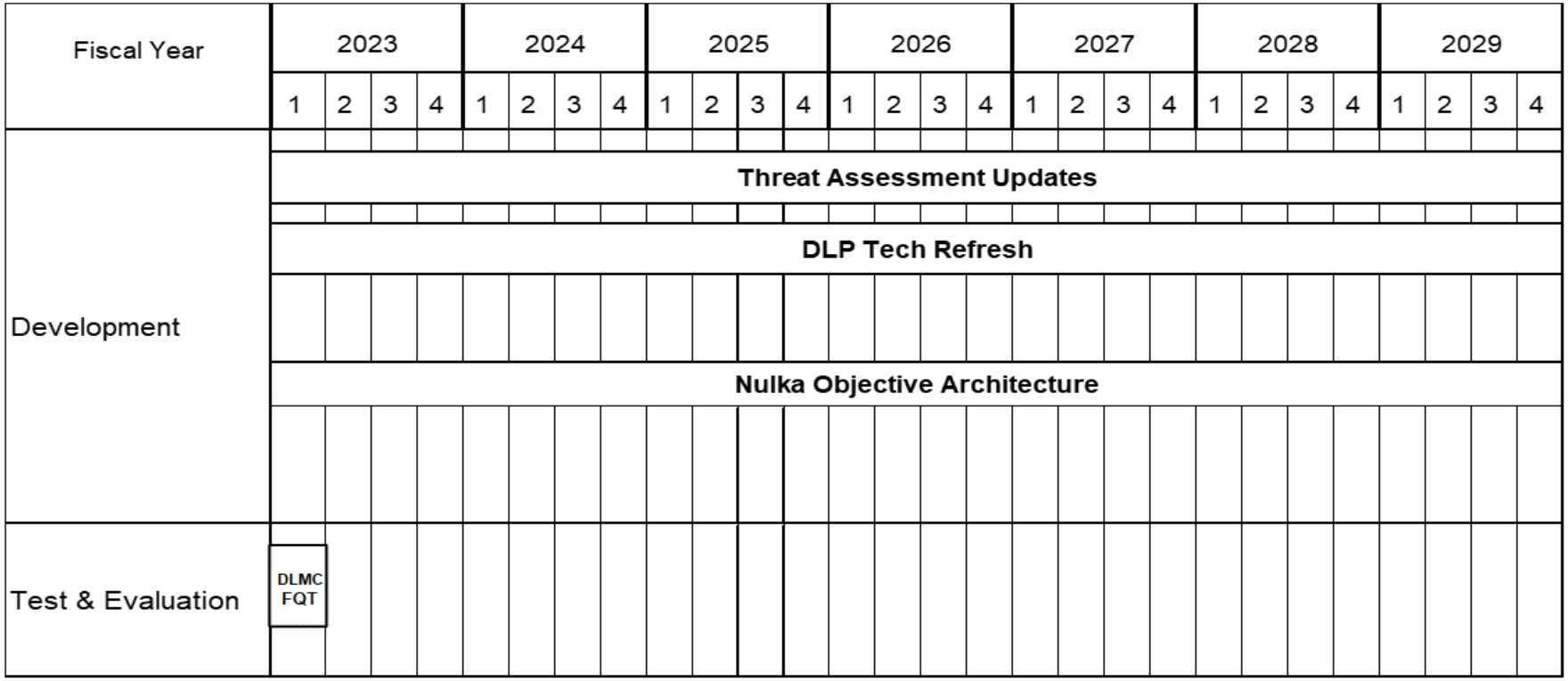
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPIF	ICI (SEAPORT) : Washington, DC	0.323	0.000		0.000		0.000		-		0.000	0.000	0.323	-
Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.813	0.139	Feb 2023	0.116	Nov 2023	0.119	Nov 2024	-		0.119	Continuing	Continuing	Continuing
Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	1.609	0.329	Feb 2023	0.275	Nov 2023	0.283	Nov 2024	-		0.283	Continuing	Continuing	Continuing
Travel	Allot	NAVSEA Program Office Travel : Washington, DC	0.748	0.038	Feb 2023	0.010	Nov 2023	0.010	Nov 2024	-		0.010	Continuing	Continuing	Continuing
		Subtotal	3.493	0.506		0.401		0.412		-		0.412	Continuing	Continuing	N/A

	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	64.010	6.168		5.326		4.837		-		4.837	Continuing	Continuing	N/A

Remarks

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 2190 / *NULKA Decoy*



Acronyms: DLMC - Decoy Launch Message Convertor; DLP - Decoy Launch Processor; FQT - Factory Qualification Testing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 2190 / *NULKA Decoy*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2190				
Threat Assessment Updates	1	2023	4	2029
Decoy Launch Processor (DLP) Tech Refresh	1	2023	4	2029
Nulka Objective Architecture	1	2023	4	2029
DLMC Facotry Qualification Testing (FQT)	1	2023	1	2023

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3068 / *Long Endurance Electronic Decoy (LEED)*	

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
3068: *Long Endurance Electronic Decoy (LEED)*	10.637	38.080	39.364	83.369	-	83.369	21.467	21.419	21.745	22.198	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

This project is a new start in FY 2022

A. Mission Description and Budget Item Justification

3068 - The Long Endurance Electronic Decoy (LEED) program will deliver an expendable long endurance autonomous off-board decoy Countermeasure system, comprised of a flight vehicle and Radio Frequency (RF) payload with modular capability allowing for rapid modification of the Electronic Warfare (EW) payload. LEED development executes under a middle tier rapid prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act. LEED will integrate with SLQ-32 and address EW gaps in response to a fleet requirement to counter Anti-Ship Missile (ASM) threats. LEED will provide the fleet with enhanced EW coordination and capability, including the ability to stretch engagement timelines and counter heterogeneous missile attacks.

The overarching LEED strategy consists of two phases including a Middle Tier of Acquisition Rapid Prototyping (MTA RP) phase followed by Major Capability Acquisition. The MTA RP phase will include Preliminary and Integrated Countermeasure Prototype Development (FY21-FY25) and Integrated System Testing (FY24-FY25). The MTA RP phase includes the development and test of operational-level Countermeasure prototypes, launch systems, and control software that demonstrate and validate critical capabilities, including flight performance, control, and RF functionality. Data collected from the initial prototypes will be used to develop Engineering Development Models (EDMs) for Qualification Testing to support a Milestone C decision for Low Rate Initial Production (LRIP) as LEED enters the Major Capability Acquisition phase. LRIP will be executed under a follow-on production OTA and will include the procurement and fielding of production representative units for at-sea capability assessments (FY28) of the Countermeasure system, while LEED transitions to full production and sustainment.

LEED will be developed alongside the Office of Naval Research (ONR) Long Endurance Airborne Platform (LEAP) Project, which began in FY21. LEED will leverage technologies developed and matured under the ONR LEAP Project.

The FY25 funding request supports the completion of integrated system testing, EDM delivery, and continued LEED integrated countermeasure development at the prime contractor. This includes material purchases, system/subsystem integration, and early prototype system demonstrations that support rapid design improvement. The FY25 funding increase supports the design's completion, government testing, and product support elements in order to enable rapid fielding in accordance with Fleet priorities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Long Endurance Electronic Decoy (LEED)	38.080	39.364	83.369	0.000	83.369

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Articles:	-	-	-	-	-
FY 2024 Plans: - Complete LEED initial Countermeasure prototype development, including final testing. - Complete delivery of initial Countermeasure prototype. - Continue LEED development of Integrated Countermeasure prototypes. - Coordinate and conduct Delta Preliminary Design Review (PDR) and System Critical Design Review (CDR). - Develop a detailed system design through the System CDR and update to Countermeasure CDR products. - Perform spares analysis. - Perform demonstrations of key subsystems for early design corrections and requirement tailoring. - Develop a laboratory version of the payload. - Conduct formal testing to collect evidence for verification of requirements. - Initiate integration, testing, and checkout activities for the prototype Countermeasure, launcher subsystem, and integrated system demonstrations. - Continue developing preliminary concepts for modification of an existing shipboard decoy launch system. - Continue developing modeling and simulation tools to support threat and countermeasure performance assessments. - Continue execution of an Integrated Product Team (IPT) to support requirements, systems engineering, testing, and product support: Coordinate and conduct government led testing events; Support the development of test procedures and testing facilities, monitor and engage in Prime Contractor performance, attend and provide technical support for Contractor-led testing events, and assess all testing outcomes for effectiveness; Utilize modeling and simulation tools to support threat and countermeasure performance assessments; Commence ship design and ship integration planning activities. - Continue technical and contractual planning activities for integrated LEED Countermeasure development. - Initiate planning and execution activities for the transition to major capability acquisition for initial production, including preparation for a milestone decision. - Develop Countermeasure tactics, Soft Kill Coordination System (SKCS) control algorithms and controller software. - Award and initiate the acquisition of the test assets to support LEED Development Testing (DT). - Continue development of government test measurement assets needed for DT events.					
FY 2025 Base Plans: - Complete LEED development of Integrated Countermeasure prototypes. - Deliver a laboratory version of the payload.					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Continue integration testing, and checkout activities for the prototype Countermeasure, launcher subsystem, and integrated system demonstrations. - Complete development of concepts for modification of an existing shipboard decoy launch system. - Conduct Demonstration, Verification, and Test (DVT) activities assessing 1) Countermeasure payload updates, isolation, launch commands, and flight plan execution and 2) prototype decoy launch system and LEED controller software. - Conduct Final Qualification Testing (FQT) of the prototype LEED system. - Develop Acceptance Test Procedures for the early prototype units for DT events. - Continue developing modeling and simulation tools to support threat and countermeasure performance assessments. - Begin production of prototype System for government DT events. - Continue execution of an IPT to support requirements, systems engineering, testing, and product support: Coordinate and conduct government led testing events; Support the development of test procedures and testing facilities, monitor and engage in Prime Contractor performance, attend and provide technical support for Contractor-led testing events, and assess all testing outcomes for effectiveness; Utilize modeling and simulation tools to support threat and countermeasure performance assessments; Continue ship design and ship integration planning activities. - Continue technical and contractual planning activities for integrated LEED Countermeasure development. - Continue planning and execution activities for the transition to major capability acquisition for initial production, including preparation for a milestone decision. - Continue development and integration of Countermeasure tactics, SKCS control algorithms and controller software. - Initiate preparation for Milestone C/LRIP contract award. - Continue development of government test measurement assets needed for DT events. - Complete system tactics required to support contractor and government test demonstrations and events. - Develop operational and maintenance training materials, begin depot standup, and continue maturing artifacts necessary to execute ship installations. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY24 to FY25 increase supports execution of DVTs, design completion, and maturation of system towards FQT in preparation for government DT and initial production. Increase enables execution of tests for verifying and					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
validating models and performance metrics, long lead-time procurement, and development of product support and ship installation materials necessary to meet Fleet request.					
Accomplishments/Planned Programs Subtotals	38.080	39.364	83.369	0.000	83.369

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

LEED development executes under a middle tier rapid prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act. The acquisition strategy for LEED is based on the validated LEED Top Level Requirements document and ASN(RDA) Middle Tier Acquisition and Acquisition Agility Interim Guidance Update Memorandum (10 Jan 2019) and was finalized with successful completion of an Acquisition Decision Memorandum (ADM) for Middle Tier of Acquisition (MTA) Rapid Prototyping Designation in Q1FY23.

To accomplish the LEED Countermeasure Development, Other Transaction Authority (OTA) agreements will be utilized for development by one or more vendors in a cooperative acquisition approach with the Office of Naval Research (ONR). ONR initiated technology maturation efforts in FY21 as part of their LEAP project, which LEED will capitalize on. The FY21 ONR efforts allowed for the matured technologies in LEAP to be leveraged sooner by LEED and support the overall LEED development and fielding timeline. The OTA agreement for initial Countermeasure development was awarded to Prime Contractor Lockheed Martin via NSWC Dahlgren Naval Surface Technology Innovation Consortium (NSTIC). This OTA agreement will be utilized through initial Countermeasure development, with the plan to use a follow-on production OTA for Low Rate Initial Production (LRIP), while transitioning to Major Capability Acquisition with a Milestone (MS) C Decision. LEED will use Federal Acquisition Regulation (FAR)-based contracting, within Major Capability Acquisition, for Full Rate Production (FRP).

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
LEED Rapid Development	C/CPFF	NSWC Dahlgren : Dahlgren, VA	9.326	35.222	Oct 2022	29.320	Nov 2023	69.426	Nov 2024	-		69.426	Continuing	Continuing	Continuing
		Subtotal	9.326	35.222		29.320		69.426		-		69.426	Continuing	Continuing	N/A

Remarks

- FY24 to FY25 increase supports design completion, and maturation of system towards FQT in preparation for government DT and initial production. Increase enables execution of tests for verifying and validating models and performance metrics, long lead-time procurement, and development of product support and ship installation materials necessary to meet accelerated Fleet request.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Support	WR	NSWC Dahlgren : Dahlgren, VA	0.031	0.193	Oct 2022	0.449	Nov 2023	1.733	Nov 2024	-		1.733	Continuing	Continuing	Continuing
Technical Support	WR	NSWC Crane : Crane, IN	0.103	0.340	Oct 2022	1.089	Nov 2023	1.176	Nov 2024	-		1.176	Continuing	Continuing	Continuing
Technical Support	WR	NRL : Washington, DC	0.206	0.447	Jan 2023	1.191	Nov 2023	1.454	Nov 2024	-		1.454	Continuing	Continuing	Continuing
Systems Engineering Support	SS/CPFF	APL : Laurel, MD	0.129	0.631	Dec 2022	1.482	Nov 2023	2.135	Nov 2024	-		2.135	Continuing	Continuing	Continuing
Technical Support	MIPR	MIT-LL : Boston, MA	0.000	0.053	Nov 2022	1.111	Nov 2023	0.000		-		0.000	0.000	1.164	-
Technical Support	C/CPIF	Lockheed Martin : Moorestown, NJ	0.000	0.106	May 2023	0.000		0.139	Nov 2024	-		0.139	Continuing	Continuing	Continuing
Technical Support	WR	SUPSHIP : Bath, ME	0.000	0.040	Apr 2023	0.000		0.300	Nov 2024	-		0.300	Continuing	Continuing	Continuing
Technical Support	WR	NAWCAD PAX River : Patuxent River, MD	0.000	0.000		0.000		0.200	Nov 2024	-		0.200	Continuing	Continuing	Continuing
		Subtotal	0.469	1.810		5.322		7.137		-		7.137	Continuing	Continuing	N/A

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3068 / *Long Endurance Electronic Decoy (LEED)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

- FY24 to FY25 increase supports design completion, and maturation of system towards FQT in preparation for government DT and initial production. Increase enables execution of tests for verifying and validating models and performance metrics, long lead-time procurement, and development of product support and ship installation materials necessary to meet accelerated Fleet request.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NRL : Washington, DC	0.214	0.447	Jan 2023	1.191	Nov 2023	1.454	Nov 2024	-		1.454	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane : Crane, IN	0.026	0.339	Jan 2023	1.089	Nov 2023	1.176	Nov 2024	-		1.176	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.191	Jan 2023	0.452	Nov 2023	1.176	Nov 2024	-		1.176	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	OPTEVFOR : Norfolk, VA	0.000	0.000		0.050	Nov 2023	0.180	Nov 2024	-		0.180	Continuing	Continuing	Continuing
		Subtotal	0.240	0.977		2.782		3.986		-		3.986	Continuing	Continuing	N/A

Remarks

FY24 to FY25 increase supports execution of DVTs and FQT in preparation for government DT and initial production. Increase enables execution of tests for verifying and validating models and performance metrics necessary to meet accelerated Fleet request.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.281	0.031	Mar 2023	0.950	Nov 2023	1.140	Nov 2024	-		1.140	Continuing	Continuing	Continuing
Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	0.281	0.000		0.950	Nov 2023	1.640	Nov 2024	-		1.640	Continuing	Continuing	Continuing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3068 / *Long Endurance Electronic Decoy (LEED)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	Sub Allot	NAVSEA Program Office : Washington, DC	0.040	0.040	Mar 2023	0.040	Nov 2023	0.040	Nov 2024	-		0.040	Continuing	Continuing	Continuing
		Subtotal	0.602	0.071		1.940		2.820		-		2.820	Continuing	Continuing	N/A

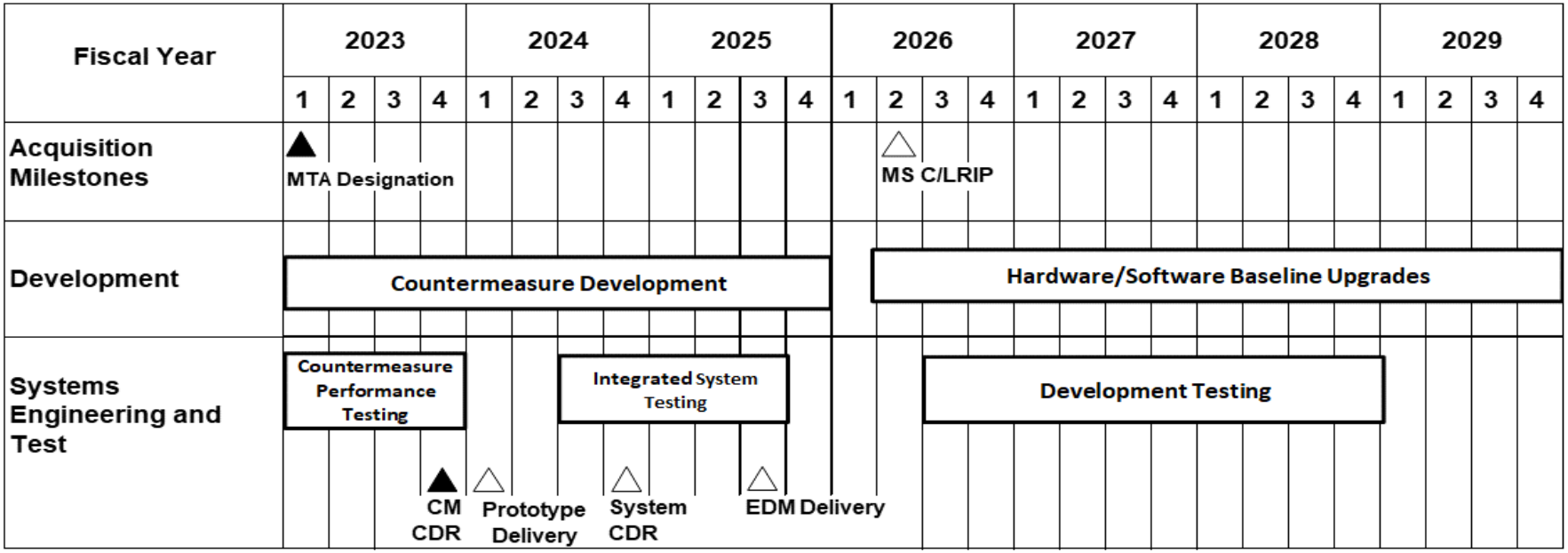
Remarks

- FY24 to FY25 increase in Management support is due to increased Government oversight of program acceleration efforts.

	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	10.637	38.080		39.364		83.369		-		83.369	Continuing	Continuing	N/A

Remarks

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*



Acronyms: CDR - Critical Design Review; CM - Countermeasure; EDM - Engineering Development Model; LRIP - Low-Rate Initial Production; MS - Milestone; MTA - Middle Tier Acquisition

Notes:
Schedule aligns with current established OTA (awarded Q4FY21), the Prime Contractor's current Integrated Master Schedule (IMS), and the Program Office Test and Evaluation plan.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3068 / *Long Endurance Electronic Decoy (LEED)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3068				
Countermeasure Development	1	2023	4	2025
Countermeasure Performance Testing	1	2023	4	2023
Middle Tier Acquisition (MTA) Designation	1	2023	1	2023
Countermeasure Critical Design Review (CDR)	4	2023	4	2023
Prototype Delivery	1	2024	1	2024
Integrated System Testing	3	2024	3	2025
System Critical Design Review (CDR)	4	2024	4	2024
Engineering Development Model (EDM) Delivery	3	2025	3	2025
MS C / LRIP	2	2026	2	2026
Hardware/Software Baseline Updates	2	2026	4	2029
Development Testing	3	2026	4	2028

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3316 / *Advanced Offboard EW*	

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
3316: *Advanced Offboard EW*	353.283	26.050	18.107	14.474	-	14.474	7.957	0.816	0.839	0.857	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination to counter identified EW gaps (additional details classified) in response to an urgent operational need from the Fleet that has been approved by the CNO for execution. In FY 2012, the program began with a Rapid Response Effort (RRE) which was completed in FY 2014. The RRE consisted of the evaluation and integration of commercially available decoys. The Decoy Development Effort (DDE) consists of the development and evaluation of a long duration, active electronic offboard decoy system (payload) integrated on an existing flight vehicle (MH-60R/MH-60S), integration with ship and air systems, and a government software development effort to integrate AOEW into the Soft Kill Coordination System (SKCS) to gain maximum effectiveness from the decoy through coordination with an onboard system.

In the DDE/E&MD Contract effort, which commenced in 2017, the program is developing and integrating Engineering Development Models (EDMs) with the System of Systems (SOS) partners to include conduct of Factory Qualification Testing (FQT), preparation for the program's test phase ramping up in Q2FY23, and FY23 delivery of the Technical Data Package (TDP). Schedule shifts in program testing and delivery of TDP are due to test complexity.

As part of the MH-60R/S Flight Certification effort, the program is required to complete NAVAIR Avionics Operating Program (AOP) software development and Flight Certification, which are critical to support fielding of the AOEW decoy. The AOP software supports integration of the AOEW decoy with the MH-60R/S airframe and is required for successful completion of Flight Certification. AOP software development was completed in FY21. Flight Certification testing includes Ground and Flight Jettison, Flight Test for Mission Performance / Spec Compliance Flight Test, Functional Software Test, and Decoy Fit and Egress Test, which ensures operational Safety of Flight and is critical to successful decoy fielding.

The FY25 budget request supports NAVAIR conduct of Avionics Operating Program (AOP) MH-60R and MH-60S Software Testing necessary for AOEW Decoy and Helicopter Integration into the baseline and NAVAIR Air Worthiness and Flight Certification.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: AOEW - Decoy Development Effort (DDE) Government Engineering	7.322	16.616	12.474	0.000	12.474
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue identification of and update of test assets needed to support Operational Testing - Complete Technique Verification Test Planning (one government-led Developmental Test (DT) event) - Conduct one government-led DT Event (Technique Verification) and commence test analysis					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Continue tactics development and continue tactics analysis - Continue integration of ship and air interfaces - Continue interoperability analysis to ensure all System of Systems (SOS) are compatible - Complete integration test planning for Dahlgren open air test (one government-led DT Test) - Conduct one government-led DT Event (Dahlgren open air test) and commence test analysis - Complete test analysis for three government-led DT Events - Continue testing of Avionics Operating Program (AOP) to update MH-60R/S software necessary for AOEW decoy and helicopter integration - Complete Engineering Data Requirements Agreement Plan (EDRAP) development - Continue NAVAIR MH-60R/S Flight Certification Testing - Continue sustainment and training plan development - Continue Installation Planning - Complete update of Improved Control and Displays (ICADs) - Commence and complete Environmental Qualification Test (EQT) - Continue test and operational library development - Complete SKCS development					
FY 2025 Base Plans: - Continue identification of and update of test assets needed to support Operational Testing - Complete test analysis of one government-led DT Event (Technique Verification) - Commence and complete test planning for two government-led DT Events (DT-C6 and DT-C2) - Conduct two government-led DT Events and commence test analysis (DT-C6 and DT-C2) - Continue tactics development and continue tactics analysis - Continue integration of ship and air interfaces - Continue interoperability analysis to ensure all SOS are compatible - Continue testing of AOP to update MH-60R/S software necessary for AOEW decoy and helicopter integration - Continue NAVAIR MH-60R/S Flight Certification Testing - Continue sustainment and training plan development - Complete Installation Planning - Continue test and operational library development - Commence and complete Element Certification - Commence and complete Aegis Integration Event - Award Competitive Production Contract					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Commence and complete support of re-design of Li-ION Battery Mounting Bracket - Commence and complete support of update of the AOEW Model incorporating test data from government-led DT Events - Commence support of Trouble Report fixes ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease for Government Engineering in FY25 is due to completion of Technique Verification, PAX chamber test, and DT-B4 in FY24.					
Title: AOEW - Decoy Development Effort (DDE) Development	18.728	1.491	2.000	0.000	2.000
Articles:	-	-	-	-	-
FY 2024 Plans: - Complete integration support of Ship and Air interfaces - Complete support of Avionics Operating Program (AOP) MH-60R and MH-60S Software Testing Necessary for AOEW Decoy and Helicopter Integration - Complete support for NAVAIR Flight Certification Testing - Complete support of Sustainment and Training Plan Development ***FY 2025 Base Plans:*** - Commence and complete support of test analysis for two Government-led Developmental Test Events (DT-C6 and DT-C2) - Commence and complete support of test analysis for one government-led Developmental Test Events (Technique Verification and DT-B4) - Commence and complete re-design of Li-ION Battery Mounting Bracket - Commence and complete update of the AOEW Model incorporating test data from Government-led Developmental Test Events - Commence Trouble Report fixes ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:***					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Increase for Development Engineering in FY25 is due to the support of test analysis for Government-led Developmental Test Events, re-design of Li-ION Battery Mounting Bracket, and update of AOEW model.					
Accomplishments/Planned Programs Subtotals	26.050	18.107	14.474	0.000	14.474

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/5530: *Anti-ship Missile Decoy System*	86.091	56.630	95.557	-	95.557	127.763	140.854	139.394	132.170	907.172	1,872.133
• OMN/11CD0 (1C1C): *AOEW*	3.047	9.726	9.771	-	9.771	11.547	11.840	12.079	12.303	Continuing	Continuing

Remarks

D. Acquisition Strategy

A sole-source contract is planned in FY24 for LRIPs and Design Agent services. A separate contract(s) will be awarded in FY25 for unit procurement in FY25-FY29.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Concept Analysis and Integration Assessment	SS/CPFF	APL : Laurel, MD	11.707	0.000		0.000		0.000		-		0.000	0.000	11.707	Continuing
Concept Analysis and Technology Studies	MIPR	MIT-LL : Boston, MA	4.857	0.000		0.000		0.000		-		0.000	0.000	4.857	Continuing
Concept Development and Technology Studies	WR	NRL : Washington, D.C.	25.856	0.000		0.000		0.000		-		0.000	0.000	25.856	Continuing
Technology Development and Systems Requirements	WR	NSWC Dahlgren : Dahlgren, VA	14.595	0.000		0.000		0.000		-		0.000	0.000	14.595	Continuing
DDE Avionics Development	WR	NAVAIR : Patuxent River, MD	18.182	0.386	Oct 2022	1.377	Nov 2023	1.194	Oct 2024	-		1.194	Continuing	Continuing	Continuing
DDE Preliminary Design/ E&MD	C/CPIF	Lockheed Martin : Syracuse, NY	166.884	18.728	Oct 2022	1.491	Nov 2023	2.000	Oct 2024	-		2.000	Continuing	Continuing	Continuing
Ship Integration	WR	SPAWAR : San Diego, CA	0.975	0.000		0.000		0.000		-		0.000	0.000	0.975	-
Ship Integration	WR	NSWC Dahlgren : Dahlgren, VA	0.330	0.000		0.000		0.000		-		0.000	0.000	0.330	-
		Subtotal	243.386	19.114		2.868		3.194		-		3.194	Continuing	Continuing	N/A

Remarks

- Since the FY24 budget request, funding was internally realigned from Support and T&E to Product Development to support DDE Preliminary Design/E&MD for the completion of EDM Hardware and Software development and integration, conduct of FQT, support of Battery Certification, and finalization of TDP.
- FY24 to FY25 funding for DDE Preliminary Design/E&MD increases due to the support of test analysis for Government-led Developmental Test Events.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Development Support	WR	NRL : Washington, DC	21.657	1.478	Nov 2022	1.226	Nov 2023	1.194	Nov 2024	-		1.194	Continuing	Continuing	Continuing
Government Development and Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	16.399	0.992	Nov 2022	1.944	Nov 2023	0.955	Nov 2024	-		0.955	Continuing	Continuing	Continuing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3316 / *Advanced Offboard EW*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	WR	NSWC Crane : Crane, IN	20.792	0.652	Nov 2022	2.102	Nov 2023	0.717	Nov 2024	-		0.717	Continuing	Continuing	Continuing
Logistics/Training	SS/CPFF	EWA : Fairmont, WV	1.616	0.000		0.000		0.000		-		0.000	0.000	1.616	Continuing
Government Engineering Support	WR	NSWC Carderock : Bethesda, MD	1.494	0.100	Jan 2023	0.000		0.024	Nov 2024	-		0.024	0.000	1.618	-
Systems Engineering Support	SS/CPFF	APL : Laurel, MD	8.333	0.053	Mar 2023	0.257	Nov 2023	0.209	Nov 2024	-		0.209	Continuing	Continuing	Continuing
Government Development Support	WR	NAVAIR : Patuxent River, MD	7.040	0.150	Nov 2022	1.056	Nov 2023	0.796	Nov 2024	-		0.796	Continuing	Continuing	Continuing
Systems Engineering Support	MIPR	MIT-LL : Boston, MA	0.034	0.000		0.000		0.000		-		0.000	0.000	0.034	-
Program Management Support	MIPR	DISA : Pensacola, FL	0.195	0.000		0.000		0.000		-		0.000	0.000	0.195	-
Installation Support	WR	SUPSHIP : Bath, ME	0.112	0.341	Mar 2023	0.000		2.497	Nov 2024	-		2.497	Continuing	Continuing	Continuing
Integrated Logistics Assessment	WR	NSWC PHD : Port Hueneme, CA	0.021	0.000		0.000		0.000		-		0.000	0.000	0.021	-
Integrated Logistics Assessment	WR	NSWC Panama City : Panama City Beach, FL	0.009	0.000		0.000		0.000		-		0.000	0.000	0.009	-
Integrated Logistics Assessment	WR	NAVSUP WSS : Philadelphia, PA	0.004	0.000		0.000		0.000		-		0.000	0.000	0.004	-
Integrated Logistics Assessment	WR	NSWC IHEOD : Indian Head, MD	0.011	0.000		0.000		0.000		-		0.000	0.000	0.011	-
MRTS Support	WR	NAWC TSD : Orlando, FL	0.015	0.000		0.000		0.000		-		0.000	0.000	0.015	-
Ship Integration	WR	NIWC PAC : San Diego, CA	0.028	0.000		0.000		0.000		-		0.000	0.000	0.028	-
Government Development Support	WR	NAWC PX : Patuxent River, MD	0.000	0.078	Aug 2023	0.000		0.000		-		0.000	0.000	0.078	-
		Subtotal	77.760	3.844		6.585		6.392		-		6.392	Continuing	Continuing	N/A

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

- Since the FY24 budget request, funding was internally realigned from Support to Product Development for the completion of EDM Hardware and Software development and integration, conduct of FQT, support of Battery Certification, and finalization of TDP.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NRL : Washington, DC	6.869	0.485	Oct 2022	2.371	Nov 2023	1.115	Oct 2024	-		1.115	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC/Dahlgren : Dahlgren, VA	5.621	1.400	Oct 2022	2.298	Nov 2023	1.433	Oct 2024	-		1.433	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane : Crane, IN	1.471	0.039	Oct 2022	0.210	Nov 2023	0.171	Oct 2024	-		0.171	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NAVAIR : Patuxent River, MD	12.475	0.678	Oct 2022	3.569	Nov 2023	1.990	Oct 2024	-		1.990	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	OPTEVFOR : Norfolk, VA	1.098	0.161	Mar 2023	0.146	Nov 2023	0.119	Oct 2024	-		0.119	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	SS/CPFF	APL : Laurel, MD	0.275	0.254	Jun 2023	0.000		0.000		-		0.000	0.000	0.529	-
		Subtotal	27.809	3.017		8.594		4.828		-		4.828	Continuing	Continuing	N/A

Remarks

- Since the FY24 budget request, funding was internally realigned from T&E to Product Development for the completion of EDM Hardware and Software development and integration, conduct of FQT, support of Battery Certification, and finalization of TDP.
- FY24 to FY25 funding for Test and Evaluation decreases due to the completion of Technique Verification, PAX chamber test, and DT-B4 in FY24.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

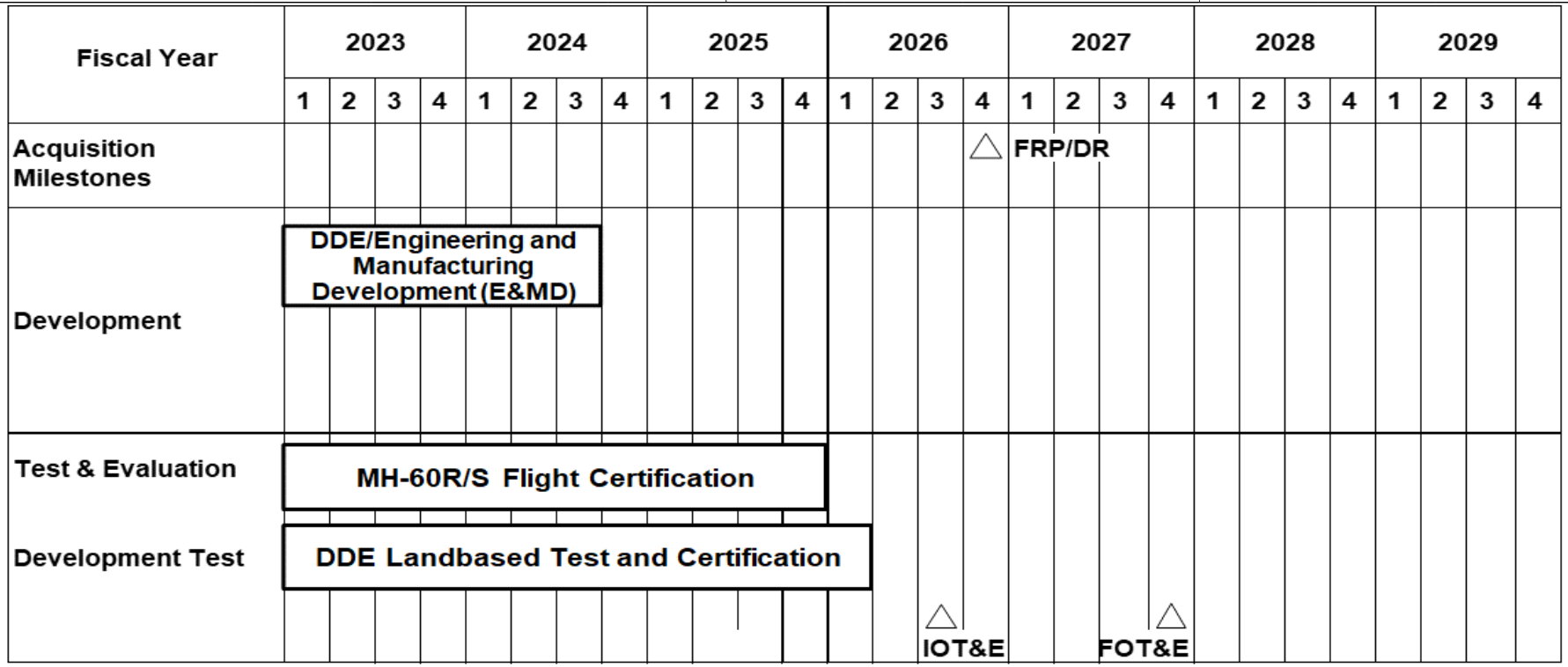
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPIF	CACI (SEAPORT) : Washington, DC	1.170	0.000		0.000		0.000		-		0.000	0.000	1.170	-
Program Management Support	C/CPIF	SPA : Washington, DC	0.821	0.000		0.000		0.000		-		0.000	0.000	0.821	-
Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	1.693	0.000		0.000		0.000		-		0.000	0.000	1.693	-
Program Management Support	C/CPIF	STRATEGIC INSIGHT (SEAPORT) : Washington, DC	0.058	0.000		0.000		0.000		-		0.000	0.000	0.058	-
Program Management Support	WR	NSWC Indian Head : Indian Head, MD	0.053	0.000		0.000		0.000		-		0.000	0.000	0.053	-
Travel	Allot	NAVSEA Program Office Travel : Washington, DC	0.268	0.075	Jan 2023	0.060	Nov 2023	0.060	Nov 2024	-		0.060	Continuing	Continuing	Continuing
Cost Management Support	C/CPIF	CACI (SEAPORT) : Washington, DC	0.265	0.000		0.000		0.000		-		0.000	0.000	0.265	-
		Subtotal	4.328	0.075		0.060		0.060		-		0.060	Continuing	Continuing	N/A

	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	353.283	26.050		18.107		14.474		-		14.474	Continuing	Continuing	N/A

Remarks

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*



Acronyms: DDE - Decoy Development Effort; DR - Decision Review; FOT&E - Follow-on Operational Test and Evaluation; FRP - Full Rate Production; IOT&E - Initial Operational Test and Evaluation

Notes:
Since the FY24 budget request, DDE/Engineering and Manufacturing Development (E&MD) extended from Q2FY24 to Q3FY24 due to continued Integration Support of Ship and Air Interfaces, Support of Avionics Operating Program (AOP) Software Testing, and Support of NAVAIR Flight Certification Testing. The Autonomous Flight Vehicle Requirements Definition development has been transferred to the LEED Program and has been deleted from the AOEW schedule.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3316 / *Advanced Offboard EW*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3316				
DDE / E&MD	1	2023	3	2024
MH60-R/S Flight Certification	1	2023	4	2025
DDE Land-Based Test and Certification	1	2023	1	2026
Initial Operational Test and Evaluation (IOT&E)	3	2026	3	2026
Full Rate Production (FRP) / Decision Review (DR)	4	2026	4	2026
Follow-On Operational Test and Evaluation (FOT&E)	4	2027	4	2027

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*				Project (Number/Name) 3321 / *SEWIP Block 3*			
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**
3321: *SEWIP Block 3*	283.352	6.113	8.906	4.978	-	4.978	6.537	6.291	5.928	6.050	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

SEWIP Block 3 is developing an advanced Electronic Attack (EA) capability to keep pace with the evolving Anti-Ship Missile (ASM) threat and counter-targeting required for the AN/SLQ-32(V) system. SEWIP Block 3 will provide the AN/SLQ-32(V)7 system for all surface ships (CVN, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new construction platforms.

The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. SEWIP Block 3 will continue to expand the integrated shipboard combat system by providing new integrated EA transmitters, arrays, and associated EA techniques. The AN/SLQ-32(V)7 integrates the new EA countermeasure (SEWIP Block 3) with the AN/SLQ-32(V)6. The AN/SLQ-32(V)6 includes an Electronic Support (ES) receiver (SEWIP Block 2), a High Gain High Sensitivity (HGHS) receiver (SEWIP Block 1B3), a Specific Emitter Identifier (SEI) receiver (SEWIP Block 1B2), display console, and backend electronics. SEWIP Block 3 includes the government software development and integration effort for a SoftKill Coordinator (SKC) to manage EA engagements. SEWIP Block 3 is developing an Electronic Warfare Test Bed (EWTB) to validate system performance via modeling and simulation. SEWIP Block 3 is also investigating higher efficiency Gallium Nitride (GaN) High Power Amplifiers (HPA). GaN HPAs are used in maritime advanced technology radar and surface electronic warfare systems. For radar and electronic warfare systems, this will yield technology to incorporate and integrate into radar and electronic warfare Transmit/Receive Module designs, with a beneficial impact of improved Power Added Efficiency (PAE) for the systems resulting in a reduction in power draw from ship's service electrical power for the same radar and electronic warfare system performance.

To keep pace with evolving ASM threats and counter-targeting, SEWIP Block 3 will incorporate capability improvements via a technology insertion plan. This capability improvement plan will mature, develop, and validate technology solutions to improve capability for insertion into SEWIP Block 3 upgrades. Technology solutions will result in technical data packages with Government-owned data rights. Solutions will be incorporated into the SEWIP Block 3 technical data packages for incorporation into production and/or back-fit of fielded systems.

The FY25 funding request for SEWIP Block 3 will focus on the conduct of Technical Evaluation (TECHEVAL)/Initial Operational Test & Evaluation (IOT&E) and the Full Rate Production (FRP) Decision Review (DR). Software and Hardware baseline upgrades, training curriculum development and EW Testbed model upgrades will continue. HPA efficiency design and development efforts to reduce required power and fuel consumption will conclude. Block 3 Capability Improvements will commence in FY25.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Title: SEWIP Block 3 Government Engineering	4.254	6.544	4.538	0.000	4.538
Articles:	-	-	-	-	-

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY 2024 Plans: - Continue Electronic Warfare Test Bed (EWTB) model upgrades and verification/validation of model performance. - Continue test planning and conduct Technical Evaluation/Initial Operational Test & Evaluation (TECHEVAL/ IOTE). - Continue High Power Amplifier (HPA) energy efficiency engineering design and development. - Continue monitoring of software and hardware fixes/upgrades. - Continue monitoring training curriculum development. - Commence preparation for Full Rate Production Decision Review (FRP DR). ***FY 2025 Base Plans:*** - Continue EWTB model upgrades and verification/validation of model performance. - Complete TECHEVAL/IOTE. - Complete HPA energy efficiency engineering design and development. - Continue monitoring of software and hardware fixes/upgrades. - Continue monitoring training curriculum development. - Preparation for and conduct of FRP DR. - Commence support of Block 3 Capability Improvements. - Commence Capability Improvement #1 - Support technology insertion of below deck capability improvements. - Commence Capability Improvement #2 - Support technology insertion of aperture capability improvements. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in FY25 is due to effort associated with the completion of Development Testing in FY24.					
Title: SEWIP Block 3 Development	1.859	2.362	0.440	0.000	0.440
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue upgrades of software and hardware baseline based on Land Based Test (LBT) results. - Continue effort to complete the SEWIP Block 3 training modules of the Surface Electronic Warfare Tactical Trainer (SEWTT).					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Continue HPA energy efficiency engineering design and development. ***FY 2025 Base Plans:*** - Continue upgrades of software and hardware baseline based on LBT results. - Continue effort to complete the SEWIP Block 3 training modules of the SEWTT. - Complete HPA energy efficiency engineering design and development. - Commence design and development of Block 3 Capability Improvements. - Commence Capability Improvement #1 - design and development of technology insertion of below deck capability. - Commence Capability Improvement #2 - design and development of technology insertion of aperture capability improvements. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in FY25 is due to efforts associated with the ramp down of training module development and the completion of HPA efficiency engineering design and development efforts.					
Accomplishments/Planned Programs Subtotals	6.113	8.906	4.978	0.000	4.978

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/2312: *AN/SLQ-32*	291.832	329.513	184.349	-	184.349	513.174	589.535	601.748	614.664	5,104.631	10,646.618
• OMN PE 0204575N: *AN/SLQ-32*	16.371	18.611	18.006	-	18.006	18.651	19.426	19.822	20.137	Continuing	Continuing

Remarks

D. Acquisition Strategy

SEWIP developed Block upgrades to AN/SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each Block and sub-Block was developed and contracted in an individual yet coordinated and overlapping fashion. Specifically, SEWIP Block 3 involves the transitioning and leveraging of work performed under the Integrated Topside (INTOP) program sponsored by ONR, which focused on designing/architecting an integrated Electronic Attack (EA), Information Operations (IO), and Line of Site (LOS) Comms system for Naval Surface Platforms. The SEWIP Block 3 acquisition strategy included a full and open competition for EM&D and the first LRIP units. As part of EMD and LRIP, the OEM delivered a level III, build-to-print Technical Data Package (TDP) to support full and open competition for additional LRIP and FRP units. To remain current with proliferating and emerging threats, SEWIP Block 3 will incorporate capability

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*

improvement solutions. These improvements mature, develop and validate technology solutions to address requirements gaps for insertion into SEWIP Block 3 upgrade. Technology solutions result in Government owned technical data packages with Government owned data rights. Solutions are incorporated into the SEWIP Block 3 technical data packages for incorporation into production and/or back-fit of fielded systems. Acquisition strategy supports full and open completion for technical solutions.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 SEWTT Development	SS/CPFF	EWA-GSI : Fairmont, WV	2.733	0.705	Feb 2023	0.362	Feb 2024	0.140	Feb 2025	-		0.140	Continuing	Continuing	Continuing
Block 3 Preliminary Design/E&MD	C/CPIF	Northrop Grumman : Baltimore, MD	267.436	1.154	Feb 2023	2.000	Feb 2024	0.300	Feb 2025	-		0.300	Continuing	Continuing	Continuing
		Subtotal	270.169	1.859		2.362		0.440		-		0.440	Continuing	Continuing	N/A

Remarks

- FY24 Product Development award dates slipped 3 months due to funds not being received for these efforts to date.
- Product Development decrease in FY25 is due to efforts associated with the ramp down of training module development and the completion of HPA efficiency engineering design and development.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Integrated Logistics Support	WR	NSWC Corona : Corona, CA	0.023	0.000		0.000		0.000		-		0.000	0.000	0.023	-
Block 3 Government Engineering Support	MIPR	MIT-LL : Cambridge, MA	4.794	0.000		0.000		0.000		-		0.000	0.000	4.794	-
Block 3 Feasibility Studies	WR	BIW : Bath, ME	0.510	0.000		0.000		0.000		-		0.000	0.000	0.510	-
Block 3 Platform Integration Studies	WR	Norfolk Naval Shipyard (NNSY) : Norfolk, VA	0.040	0.000		0.000		0.000		-		0.000	0.000	0.040	-
Block 3 Platform Integration Studies	WR	SUPSHIP Gulf Coast : Pascagoula, MS	0.062	0.000		0.000		0.000		-		0.000	0.000	0.062	-
Block 3 Platform Integration Studies	WR	NSWC Philadelphia : Philadelphia, PA	0.212	0.000		0.000		0.000		-		0.000	0.000	0.212	-
Block 3 Platform Integration Studies	WR	NAVSEA 05 (Alion) : Washington, DC	0.297	0.000		0.000		0.000		-		0.000	0.000	0.297	-
Block 3 Platform Integration Studies	WR	NAVSEA 05 (CSRA) : Washington, DC	0.149	0.000		0.000		0.000		-		0.000	0.000	0.149	-

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3321 / *SEWIP Block 3*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Platform Integration Studies	WR	Lockheed Martin : Moorstown, NJ	0.202	0.000		0.000		0.000		-		0.000	0.000	0.202	-
		Subtotal	6.289	0.000		0.000		0.000		-		0.000	0.000	6.289	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC Dahlgren : Dahlgren, VA	0.378	0.000		0.000		0.000		-		0.000	0.000	0.378	-
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane : Crane, IN	0.303	0.705	Nov 2022	0.075	Nov 2023	0.000		-		0.000	0.000	1.083	-
Operational Test & Evaluation (OT&E)	WR	NSWC Crane : Crane, IN	0.000	0.000		0.342	Nov 2023	0.275	Nov 2024	-		0.275	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NRL : Washington, DC	2.616	2.203	Dec 2022	0.374	Nov 2023	0.000		-		0.000	0.000	5.193	-
Operational Test & Evaluation (OT&E)	WR	NRL : Washington, DC	0.000	0.000		4.500	Nov 2023	2.898	Nov 2024	-		2.898	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	SS/CPFF	APL : Laurel, MD	0.767	0.275	Dec 2022	0.050	Nov 2023	0.000		-		0.000	0.000	1.092	-
Operational Test & Evaluation (OT&E)	SS/CPFF	APL : Laurel. MD	0.000	0.000		0.075	Nov 2023	0.397	Nov 2024	-		0.397	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	COMOPTEVFOR : Norfolk, VA	0.488	0.245	Aug 2023	0.050	Nov 2023	0.000		-		0.000	0.000	0.783	-
Operational Test & Evaluation (OT&E)	WR	COMOPTEVFOR : Norfolk, VA	0.000	0.000		0.310	Aug 2024	0.310	Aug 2025	-		0.310	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	Surface Combat Systems Center : Wallops Island, VA	1.384	0.535	Feb 2023	0.457	Nov 2023	0.357	Nov 2024	-		0.357	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	USACE (DREN) : Wallops Island, VA	0.142	0.020	Dec 2022	0.021	Nov 2023	0.021	Nov 2024	-		0.021	Continuing	Continuing	Continuing

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NAVFAC Mid-Atlantic : Norfolk, VA	0.192	0.000		0.000		0.000		-		0.000	0.000	0.192	-
		Subtotal	6.270	3.983		6.254		4.258		-		4.258	Continuing	Continuing	N/A

Remarks

- FY24 OT&E COTF support award dates moved to August from November to properly align with contractual Option Year award dates.
- Test & Evaluation decrease in FY25 is due to efforts associated with the completion of Development Testing in FY24.

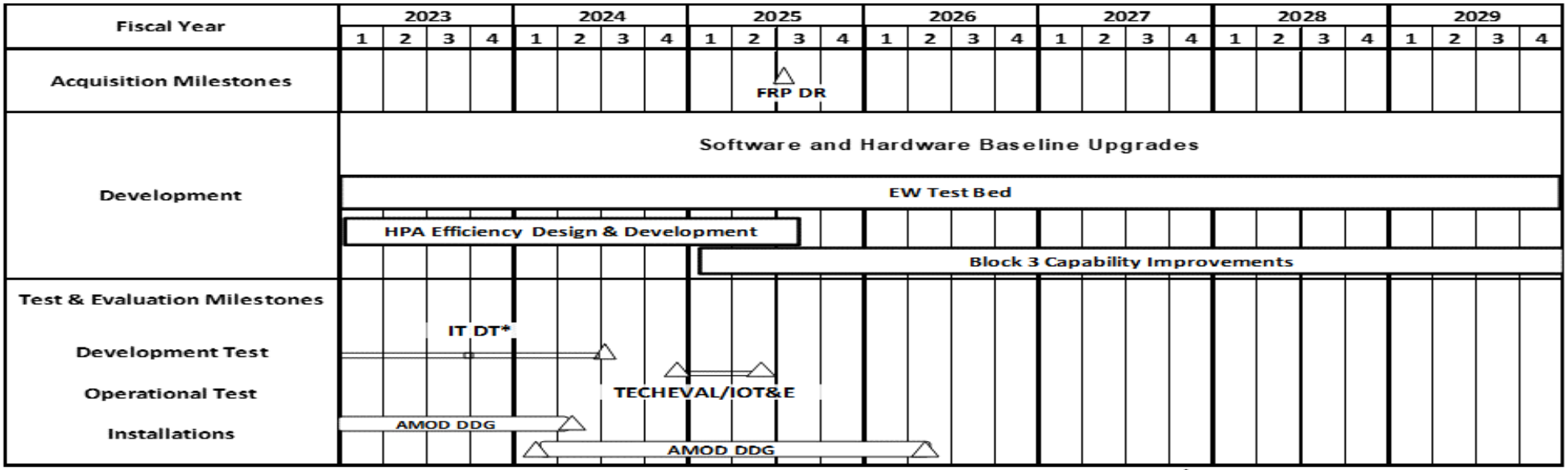
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.253	0.098	Dec 2022	0.115	Nov 2023	0.115	Nov 2024	-		0.115	Continuing	Continuing	Continuing
Block 3 Program Management Support	C/CPIF	BAH (SEAPORT) : Washington, DC	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Block 3 Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	0.307	0.100	Dec 2022	0.115	Nov 2023	0.115	Nov 2024	-		0.115	Continuing	Continuing	Continuing
Block 3 Travel	Sub Allot	NAVSEA Program Office : Washington, DC	0.064	0.073	Feb 2023	0.060	Nov 2023	0.050	Nov 2024	-		0.050	Continuing	Continuing	Continuing
		Subtotal	0.624	0.271		0.290		0.280		-		0.280	Continuing	Continuing	N/A

	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	283.352	6.113		8.906		4.978		-		4.978	Continuing	Continuing	N/A

Remarks

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*



* Includes the following test events: Land Test-Block 3 Stand-Alone Operation, Flight Test-Threat Engagements (over water), IA / Maint Demo (Dry Run), CMS Integration (Aegis), DDG-51 Combat System Certification (Aegis Integration), Environment, EMI, RCS, and Shock Tests

Acronyms: DR-Decision Review; DT-Developmental Test; FRP-Full Rate Production; IOT&E-Initial Operational Test & Evaluation; IT-Integrated Testing; FQT- Formal Qualification Test; AMOD- Aegis Modernization; HPA - High Power Amplifier; FOT&E - Follow-on Test & Evaluation

Note 1: Since the FY24 budget request, Development Testing has been extended from 4QTRFY23 to 3QTRFY24 due to increased level of complexity of development testing & analysis.

Note 2: Since the FY24 budget request, completion of test ship AMOD availability is delayed from 1QTRFY24 to 2QTRFY24

Note 3: Since the FY24 budget request, TECHEVAL/IOT&E start has been delayed from 1QTRFY24 to 4QTRFY24 due to combat system schedule alignment and ship modernization schedule

Note 4: Since the FY24 budget request, Software & Hardware baseline upgrades and EW Test Bed have been extended from 4QTR27 to 4QTR29 to support contiuous improvement initiatives and multifunction capability.

Note 5: Since the FY24 budget request, Block 3 Capability Improvements (formerly Multifuctional Aperture Capability Improvements) has been extended from 4QTR28 to 4QTR29 to complete design and development of required multifunction enhancements.

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3321 / *SEWIP Block 3*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3321.L24				
EW Testbed	1	2023	4	2029
IT-DT	1	2023	3	2024
Software and Hardware Baseline Upgrades	1	2023	4	2029
AMOD DDG (Test Ship)	1	2023	2	2024
HPA Efficiency Design & Development	1	2023	3	2025
AMOD DDG	1	2024	2	2026
Block 3 TECHEVAL and IOT&E	4	2024	2	2025
Block 3 FRP DR	3	2025	3	2025
Block 3 Capability Improvements	1	2025	4	2029

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3469 / *Scaled Onboard Electronic Attack*	

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
3469: *Scaled Onboard Electronic Attack*	0.000	0.000	0.000	40.536	-	40.536	25.510	0.000	0.000	0.000	0.000	66.046
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

3469 - Scaled Onboard Electronic Attack (SOEA) is an incremental development program added under PU 0954 by the USN to provide an advanced Electronic Attack (EA) capability against anti-ship missiles that initiates in FY24. The developmental efforts transition to a new project under PU 3469 for FY25 and FY26. SOEA will assimilate into the Surface Electronic Warfare Improvement Program (SEWIP) family of shipboard Electronic Warfare systems. The program is intended to be scalable for Surface Combatants with size, weight, power, and cooling (SWaP-C) constraints that cannot support AN/SLQ-32(V)7 (SEWIP Block 3) installation; however, it is not meant as a replacement for SLQ-32(V)7. SOEA development executes under a Middle Tier Rapid Prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act.

SOEA's acquisition strategy consists of two phases: Rapid Prototyping and Rapid Fielding. SOEA Phase 1 includes prototyping of critical technology elements (CTEs) via the Defense Microelectronics Agency (DMEA) to prove out and validate critical performance capability, system architecture functionality, supportability requirements and improvements that build on the CTEs, update external interfaces for system and platform integration and incorporate software improvements. SOEA Phase 2 will be the fielding of the capability developed in Phase 1.

The SOEA Middle Tier Acquisition (MTA) leverages technology developed by the Office of Naval Research's (ONR) and Naval Research Laboratory (NRL).

SOEA will continue to expand the integrated shipboard combat system by providing new integrated EA capability. SOEA will be integrated with AN/SLQ-32(V)6. SOEA includes a government software development and integration effort for a Soft-Kill Coordinator System (SKCS) to manage EA engagements.

The FY25 budget request for SOEA supports Rapid Prototype Development #1, #2, and #3 to prove out and validate critical performance capability, system architecture functionality, and supportability requirements; failure mode analyses and initiating development of the SOEA training modules of the Surface Electronic Warfare Tactical Trainer (SEWTT).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Scaled Onboard Electronic Attack (SOEA) Development	0.000	0.000	29.312	0.000	29.312
Articles:	-	-	-	-	-
FY 2024 Plans:					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3469 / *Scaled Onboard Electronic Attack*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2025 Base Plans:*** - Continue SOEA Rapid Prototype Development to prove out and validate critical performance capability, system architecture functionality, and supportability requirements. Support failure mode analyses. - Commence developing the SOEA training modules of the Surface Electronic Warfare Tactical Trainer (SEWTT). ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** - Increase from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25. FY24 Plans for SOEA efforts are funded under PU 0954. Additionally, the increase in FY25 is due to the ramp up in program developmental efforts as Phase 1 Prototypes advance towards delivery and performance testing in FY26.					
Title: Scaled Onboard Electronic Attack (SOEA) Government Engineering	0.000	0.000	11.224	0.000	11.224
Articles:	-	-	-	-	-
FY 2024 Plans: N/A ***FY 2025 Base Plans:*** - Complete preliminary prototype builds and accept delivery to prove out and validate critical performance capability, system architecture functionality, and supportability requirements. - Continue testing to collect evidence for verification of SOEA requirements. - Continue platform integration studies. - Continue modularity specifications development. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** - Increase from FY24 to FY25 is due to the realignment of SOEA from PU 0954 to PU 3469 in FY25. FY24 Plans for SOEA efforts are funded under PU 0954. Additionally, the increase in Government Engineering in FY25 is					

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3469 / *Scaled Onboard Electronic Attack*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
due to support of SEWTT and increased Preliminary Prototype Developmental Testing efforts leading up to Performance Testing.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	40.536	0.000	40.536

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
• OMN/0204575N: *AN/SLQ-32*	4.620	5.004	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.624
• OPN/2312: *OPN BA-2 AN/SLQ-32(V)*	291.832	329.513	184.349	-	184.349	513.174	589.535	601.748	614.664	5,104.631	10,646.618

Remarks

D. Acquisition Strategy

SOEA development executes under a middle tier rapid prototyping acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act. The acquisition strategy for SOEA is based on the validated SOEA Top Level Requirements (TLR) document and ASN(RDA) Middle Tier Acquisition and Acquisition Agility Interim Guidance Update Memorandum (10 Jan 2019) and will be finalized with successful completion of an Acquisition Decision Memorandum (ADM) for Middle Tier of Acquisition (MTA) Rapid Prototyping Designation in Q2FY24.

To accomplish the SOEA development, Defense Microelectronics Agency (DMEA) contracting agreements will be utilized for system development by one or more vendors in a cooperative acquisition approach with the Office of Naval Research (ONR), Naval Research Laboratory (NRL) and industry partners. SOEA acquisition leverages technology developed by the Office of Naval Research's (ONR) and Naval Research Laboratory (NRL).

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3469 / *Scaled Onboard Electronic Attack*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SOEA Rapid Prototype Development #1	SS/FFP	TBD : TBD	0.000	0.000		0.000		9.737	Nov 2024	-		9.737	5.005	14.742	-
SOEA Rapid Prototype Development #2	SS/FFP	TBD : TBD	0.000	0.000		0.000		9.738	Nov 2024	-		9.738	5.005	14.743	-
SOEA Rapid Prototype Development #3	SS/FFP	TBD : TBD	0.000	0.000		0.000		9.737	Nov 2024	-		9.737	5.005	14.742	-
SOEA SEWTT	SS/CPFF	EWA : Fairmont, WV	0.000	0.000		0.000		0.100	Nov 2024	-		0.100	0.075	0.175	-
		Subtotal	0.000	0.000		0.000		29.312		-		29.312	15.090	44.402	N/A

Remarks

- In FY25, SOEA Rapid Prototype Development #1, #2, and #3 continue to prove out and validate critical performance capability, system architecture functionality, and supportability requirements. Funding also supports failure mode analyses. Additionally, the increase in FY25 Product Development costs is due to commencement of SEWTT, increased Preliminary Prototype Developmental efforts, and failure mode analyses support leading up to Phase 1 Prototype Deliveries.
- In FY25, SOEA SEWTT initiates development of SOEA training modules.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SOEA Integrated Logistics Support	WR	NSWC Crane : Crane, IN	0.000	0.000		0.000		0.255	Nov 2024	-		0.255	0.231	0.486	-
SOEA Systems Engineering Support	WR	NSWC Crane : Crane, IN	0.000	0.000		0.000		0.510	Nov 2024	-		0.510	0.475	0.985	-
SOEA Systems Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.000		1.020	Nov 2024	-		1.020	0.675	1.695	-
SOEA Systems Engineering Support	WR	NRL : Washington, DC	0.000	0.000		0.000		6.104	Nov 2024	-		6.104	6.115	12.219	-
SOEA Systems Engineering Support	SS/CPFF	APL : Laurel, MD	0.000	0.000		0.000		1.012	Nov 2024	-		1.012	0.675	1.687	-
SOEA Platform Integration Studies	C/BA	TBD : TBD	0.000	0.000		0.000		0.510	Nov 2024	-		0.510	0.475	0.985	-
		Subtotal	0.000	0.000		0.000		9.411		-		9.411	8.646	18.057	N/A

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	Project (Number/Name) 3469 / *Scaled Onboard Electronic Attack*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

- In FY25, SOEA Support includes efforts to continue platform integration studies, modularity specification development technical and contract planning.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.000		0.235	Nov 2024	-		0.235	0.240	0.475	-
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane : Crane, IN	0.000	0.000		0.000		0.234	Nov 2024	-		0.234	0.239	0.473	-
Developmental Test & Evaluation (DT&E)	WR	NRL : Washington, DC	0.000	0.000		0.000		0.510	Nov 2024	-		0.510	0.520	1.030	-
Developmental Test & Evaluation (DT&E)	SS/CPFF	APL : Laurel, MD	0.000	0.000		0.000		0.306	Nov 2024	-		0.306	0.310	0.616	-
Developmental Test & Evaluation (DT&E)	WR	COMOPTEVFOR : Norfolk, VA	0.000	0.000		0.000		0.100	Nov 2024	-		0.100	0.100	0.200	-
		Subtotal	0.000	0.000		0.000		1.385		-		1.385	1.409	2.794	N/A

Remarks

- In FY25, SOEA test and evaluation supports test planning and verification of requirements of the SOEA Rapid Prototypes #1, #2, and #3. Additionally, the increase in FY25 T&E costs is due to increased Preliminary Prototype Developmental Testing efforts leading up to Performance Testing.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SOEA Program Management	C/CPFF	SPA (SEAPORT) : Washington, DC	0.000	0.000		0.000		0.255	Nov 2024	-		0.255	0.225	0.480	-
SOEA Program Management	C/CPFF	TBD BFM Support (SEAPORT) : TBD	0.000	0.000		0.000		0.153	Nov 2024	-		0.153	0.125	0.278	-

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3469 / *Scaled Onboard Electronic Attack*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SOEA Program Management	WR	NAVSEA Program Office Travel : Washington, DC	0.000	0.000		0.000		0.020	Nov 2024	-		0.020	0.015	0.035	-
		Subtotal	0.000	0.000		0.000		0.428		-		0.428	0.365	0.793	N/A

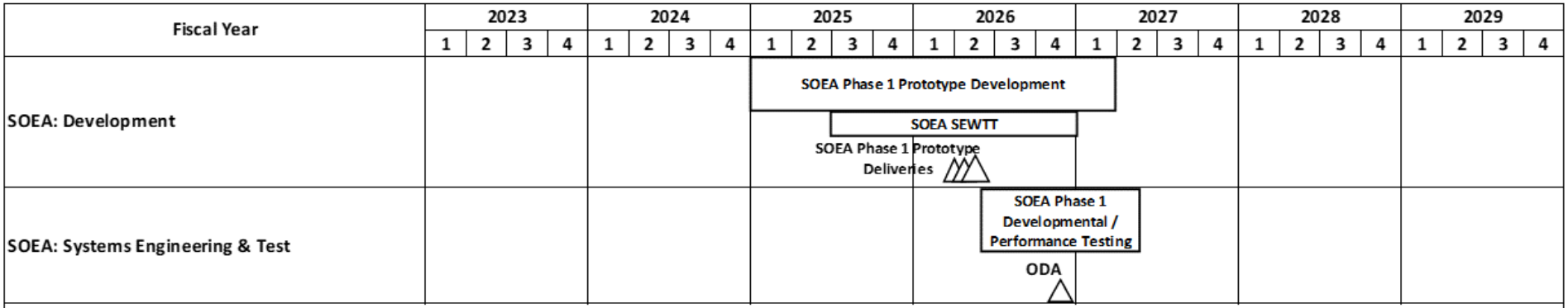
Remarks

- In FY25, Management Services supports SOEA verification of requirements, platform integration studies, specification development and financial management. Additionally, Management Services increases in FY25 due to support of developmental test planning.

	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	0.000	0.000		0.000		40.536		-		40.536	25.510	66.046	N/A

Remarks

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3469 / *Scaled Onboard Electronic Attack*



- *Since the FY24 Budget Request, SOEA has been realigned from PU 0954 to PU 3469 in FY25.*
- *Since the FY24 Budget Request, Phase 2 Program Milestones have been removed.*
- *Since the FY24 Budget Request, SOEA Prototype Development was extended from Q1FY26 to Q1FY27.*
- *Since the FY24 Budget Request, SOEA Developmental / Performance Testing was extended from Q4FY26 to Q2FY27.*
- *Since the FY24 Budget Request, SOEA SEWTT has been added to the schedule.*

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 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*	**Project (Number/Name)** 3469 / *Scaled Onboard Electronic Attack*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3469				
Scaled Onboard Electronic Attack (SOEA): Phase 1 Prototype Development	1	2025	1	2027
Scaled Onboard Electronic Attack (SOEA) Surface Electronic Warfare Tactical Trainer (SEWTT)	3	2025	4	2026
Scaled Onboard Electronic Attack (SOEA): Phase 1 Prototype Deliveries	2	2026	2	2026
Scaled Onboard Electronic Attack (SOEA): Phase 1 Developmental / Performance Testing	3	2026	2	2027
Scaled Onboard Electronic Attack (SOEA): Operational Demonstration Assessment (ODA)	4	2026	4	2026