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

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605856N / <i>Strategic Technical Support</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	3.641	4.053	3.536	-	3.536	4.565	4.412	4.500	4.595	Continuing	Continuing
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.542	1.640	1.567	-	1.567	1.700	1.727	1.762	1.799	Continuing	Continuing
1038: <i>Acoustic &amp; Non-Acoustic Analysis Supt</i>	0.000	2.099	2.413	1.969	-	1.969	2.865	2.685	2.738	2.796	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program element supports technical studies and analyses as directed by the Director for Submarine Warfare to support major policy and procurement decisions. This program is divided into two elements to support decision making in the areas of submarine and antisubmarine warfare and undersea surveillance.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	3.787	4.053	4.792	-	4.792
Current President's Budget	3.641	4.053	3.536	-	3.536
Total Adjustments	-0.146	0.000	-1.256	-	-1.256
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.146	0.000			
• Program Adjustments	0.000	0.000	-1.256	-	-1.256
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

**Change Summary Explanation**

Decrease from FY2024 to FY2025 is the result of deferring analysis of additional efforts directed towards Tactical Submarine Evolution Plan (TSEP) requirements development for VIRGINIA Class Block VI/VII and follow-on attack submarines (SSNs), TSEP Analysis of Alternatives and Subsea and Seabed Warfare and Undersea Constellation plan development and supporting studies to FY2026.

Technical: N/A

Schedule: N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605856N / <i>Strategic Technical Support</i>				<b>Project (Number/Name)</b> 0128 / <i>Mgmt/Tech Supt Strategic</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.542	1.640	1.567	-	1.567	1.700	1.727	1.762	1.799	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The project provides analytical support to the Director, Undersea Warfare Division as a basis for major policy, planning, and acquisition program decisions. It supports the development of the Submarine Force strategic vision to guide research and development investment strategy and future planning. Additionally, this line supports studies in the area of submarine and undersea surveillance missions, force structure, payloads and sensors, and force employment.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.542	1.640	1.567	0.000	1.567
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b>					
- Continue to conduct analysis to identify and weigh options for addressing problems/challenges and assessing the impact across the strategic and conventional military spectrum with use of modeling and simulation, including projects such as Tactical Submarine Evolution Plan, SSN(X), Unmanned Undersea Vehicle (UUV) inventory and capabilities modeling, and Subsea and Seabed Warfare.					
- Continue to anticipate emerging and future USW challenges and lead effective assessment efforts to proactively address those challenges.					
- Perform additional analysis and support for development and implementation of the Undersea Constellation warfare area strategy.					
<b>FY 2025 Base Plans:</b>					
- Continue to conduct analysis to identify and weigh options for addressing problems/challenges and assessing the impact across the strategic and conventional military spectrum with use of modeling and simulation, including projects such as Tactical Submarine Evolution Plan, SSN(X), Unmanned Undersea Vehicle (UUV) inventory and capabilities modeling, and Subsea and Seabed Warfare.					
- Continue to anticipate emerging and future USW challenges and lead effective assessment efforts to proactively address those challenges.					
- Perform additional analysis and support for development and implementation of the Undersea Constellation warfare area strategy.					
<b>FY 2025 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605856N / <i>Strategic Technical Support</i>	<b>Project (Number/Name)</b> 0128 / <i>Mgmt/Tech Supt Strategic</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Program decrease of \$0.073K is a result of continued performance of integrated analysis regarding technical and operational tradeoffs in the undersea warfare (USW) space, including but not limited to; refining and implementing Chief of Naval Operations Undersea Warfare Directorate Integrated Undersea Future Investment Strategy (IUFIS), the Navy's capability development plan for future USW forces, and supporting other undersea warfare partners critical to the study and further development of the IUFIS. Continuing to support the development and implementation of the N97 Tactical Submarine Evolution Plan (TSEP), the submarine force's capability development plan for future tactical submarines. These efforts include analysis and support to further capability development plans for existing submarines as well as new design platforms.					
<b>Accomplishments/Planned Programs Subtotals</b>	1.542	1.640	1.567	0.000	1.567

**C. Other Program Funding Summary (\$ in Millions)**  
N/A

**Remarks**

**D. Acquisition Strategy**  
N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605856N / <i>Strategic Technical Support</i>				<b>Project (Number/Name)</b> 1038 / <i>Acoustic &amp; Non-Acoustic Analysis Supt</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
1038: <i>Acoustic &amp; Non-Acoustic Analysis Supt</i>	0.000	2.099	2.413	1.969	-	1.969	2.865	2.685	2.738	2.796	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

This project provides analytical support to the Director, Undersea Warfare as a basis for major policy, planning, and acquisition program decisions. It supports studies in the area of undersea surveillance missions, sensor system communications, and acoustic performance prediction systems, environmental and medical effects of acoustic systems, operational security, and future threat analysis. Supports synthetic mission lay down simulations for Integrated Undersea Surveillance System (IUSS) strategic planning and resource allocation. Supports continued development and documentation of architecture for future undersea surveillance capabilities and systems. Supports studies to determine long-term impact of IUSS active sensors on marine animals and development of Surveillance Towed Array Sensor System (SURTASS) Low Frequency Active (LFA), and Compact LFA (CLFA).

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2.099	2.413	1.969	0.000	1.969
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b>					
-To continue comprehensive case analyses to establish a basis for understanding what impact, both positive and negative, our legacy tactical sonar systems and new ASB capability deliveries have on fleet operations. Continue to contribute to OWR.					
- To continue data set identification and production as the sole source for real-world data to enable advanced development initiatives which span Defense Advanced Research Projects Agency (DARPA), Office of Naval Research (ONR), Integrated Warfare Systems (IWS), Space & Naval Warfare Systems Command (SPAWAR), Naval Research Laboratory (NRL), and others to bring critically needed new capabilities and capability improvements to the IUSS community.					
- To provide support for requirements development for the Integrated Undersea Surveillance Systems family of systems provided by fixed, mobile, deployable sensors, integrated common processor, and the advanced surveillance builds.					
- To provide support on IUSS systems in the gate and JCIDS process, including IUSS Deployable family of systems.					
- To provide analyses in support of IUSS Future Plan and Maritime Surveillance Evolution Plan.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605856N / <i>Strategic Technical Support</i>	<b>Project (Number/Name)</b> 1038 / <i>Acoustic &amp; Non-Acoustic Analysis Supt</i>

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p>- To provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.</p> <p><b><i>FY 2025 Base Plans:</i></b></p> <ul style="list-style-type: none"> <li>-To continue comprehensive case analyses to establish a basis for understanding what impact, both positive and negative, our legacy tactical sonar systems and new ASB capability deliveries have on fleet operations. Continue to contribute to OWR.</li> <li>- To continue data set identification and production as the sole source for real-world data to enable advanced development initiatives which span Defense Advanced Research Projects Agency (DARPA), Office of Naval Research (ONR), Integrated Warfare Systems (IWS), Space &amp; Naval Warfare Systems Command (SPAWAR), Naval Research Laboratory (NRL), and others to bring critically needed new capabilities and capability improvements to the IUSS community.</li> <li>- To provide support for requirements development for the Integrated Undersea Surveillance Systems family of systems provided by fixed, mobile, deployable sensors, integrated common processor, and the advanced surveillance builds.</li> <li>- To provide support on IUSS systems in the gate and JCIDS process, including IUSS Deployable family of systems.</li> <li>- To provide analyses in support of IUSS Future Plan and Maritime Surveillance Evolution Plan.</li> <li>- To provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.</li> <li>- Johns Hopkins University Applied Physics Laboratory (JHU/APL) shall provide technical and operational expertise for future system production activities, design guidance and modeling and simulation, performance assessments, and field assessments. JHU/APL shall have a continuing obligation to inform the government of known problems and issues in development and deployment of systems and make disclosure of known risks associated with the system's performance and with any of the other activities to be conducted under this task.</li> </ul> <p><b><i>FY 2025 OCO Plans:</i></b> N/A</p> <p><b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Program Decrease of \$0.444K is a result of the continued provision of engineering, technical and operational subject matter expertise to Chief of Naval Operations Undersea Warfare Directorate to assess technical and operational performance capabilities and improvements for the future capabilities in undersea warfare, including, but not limited to, subsea and seabed warfare (SSW), unmanned undersea systems and Integrated Undersea</p>					

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Surveillance System (IUSS). Johns Hopkins University Applied Physics Laboratory (JHU/APL) shall provide technical and operational expertise for future system production activities, design guidance and modeling and simulation, performance assessments, and field assessments. JHU/APL shall have a continuing obligation to inform the government of known problems and issues in development and deployment of systems and make disclosure of known risks associated with the system's performance and with any of the other activities to be conducted under this task.					
<b>Accomplishments/Planned Programs Subtotals</b>	2.099	2.413	1.969	0.000	1.969

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A