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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605856N / <i>Strategic Technical Support</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	3.402	3.787	4.053	-	4.053	4.792	4.565	4.412	4.500	Continuing	Continuing
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.452	1.604	1.640	-	1.640	1.669	1.700	1.727	1.762	Continuing	Continuing
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	0.000	1.950	2.183	2.413	-	2.413	3.123	2.865	2.685	2.738	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 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	3.538	3.787	4.607	-	4.607
Current President's Budget	3.402	3.787	4.053	-	4.053
Total Adjustments	-0.136	0.000	-0.554	-	-0.554
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.136	0.000			
• Program Adjustments	0.000	0.000	-0.572	-	-0.572
• Rate/Misc Adjustments	0.000	0.000	0.018	-	0.018

Change Summary Explanation

Internal realignment between PU 0128 and PU 1038 in FY21-FY25 that supports 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.

Technical: N/A

Schedule: N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605856N / <i>Strategic Technical Support</i>				Project (Number/Name) 0128 / <i>Mgmt/Tech Supt Strategic</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.452	1.604	1.640	-	1.640	1.669	1.700	1.727	1.762	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)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.452	1.604	1.640	0.000	1.640
Articles:	-	-	-	-	-
FY 2023 Plans: 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, Unmanned Undersea Vehicle (UUV) inventory and capabilities modeling, and Subsea and Seabed Warfare. - Continue to anticipate emerging and future undersea warfare 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.					
FY 2024 Base Plans: - 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.					
FY 2024 OCO Plans:					

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605856N / <i>Strategic Technical Support</i>	Project (Number/Name) 0128 / <i>Mgmt/Tech Supt Strategic</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Program increase of \$0.036 from FY2023 to FY2024 is required for increased analysis and technical support to develop Undersea Constellation requirements.					
Accomplishments/Planned Programs Subtotals	1.452	1.604	1.640	0.000	1.640

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605856N / <i>Strategic Technical Support</i>				Project (Number/Name) 1038 / <i>Acoustic & Non-Acoustic Analysis Supt</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	0.000	1.950	2.183	2.413	-	2.413	3.123	2.865	2.685	2.738	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)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	1.950	2.183	2.413	0.000	2.413
Articles:	-	-	-	-	-
FY 2023 Plans:					
- 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), Naval Information Warfare Center (NIWC), 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 continue to provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.					
FY 2024 Base Plans:					
-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.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>- 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.</p> <p>- 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.</p> <p>- To provide support on IUSS systems in the gate and JCIDS process, including IUSS Deployable family of systems.</p> <p>- To provide analyses in support of IUSS Future Plan and Maritime Surveillance Evolution Plan.</p> <p>- To provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Program increase is in support of advancing Undersea Constellation from concepts and technology surveys for a warfare area strategy with analyses supporting the development of formal requirements and JCIDS documents.</p>					
Accomplishments/Planned Programs Subtotals	1.950	2.183	2.413	0.000	2.413

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>D. Acquisition Strategy N/A</p>
