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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	0.000	3.666	3.538	3.787	-	3.787	4.607	4.458	4.342	4.412	Continuing	Continuing
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.456	1.510	1.604	-	1.604	1.639	1.669	1.700	1.727	Continuing	Continuing
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	0.000	2.210	2.028	2.183	-	2.183	2.968	2.789	2.642	2.685	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 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	3.813	3.538	0.000	-	0.000
Current President's Budget	3.666	3.538	3.787	-	3.787
Total Adjustments	-0.147	0.000	3.787	-	3.787
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.147	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	3.787	-	3.787

Change Summary Explanation

The FY2023 funding request was reduced by \$0.489 million to account for the availability of prior year execution balances.

Internal realignment between PU 0128 and PU 1038 in FY21-FY25 that supports additional effort 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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1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*

R-1 Program Element (Number/Name)
PE 0605856N / *Strategic Technical Support*

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
0128: <i>Mgmt/Tech Supt Strategic</i>	0.000	1.456	1.510	1.604	-	1.604	1.639	1.669	1.700	1.727	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.456	1.510	1.604	0.000	1.604
Articles:	-	-	-	-	-
FY 2022 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 USW challenges, and lead effective assessment efforts to proactively address those challenges.					
-Additional analysis and support for development and implementation of the Undersea Constellation warfare area strategy					
FY 2023 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, 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 2023 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A					
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Program increase is attributed to realignment of funding and is required for initiation of Undersea Constellation JCIDS requirements development.					
Accomplishments/Planned Programs Subtotals	1.456	1.510	1.604	0.000	1.604

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	0.000	2.210	2.028	2.183	-	2.183	2.968	2.789	2.642	2.685	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2.210	2.028	2.183	0.000	2.183
Articles:	-	-	-	-	-
FY 2022 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.					
- 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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>- To provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.</p> <p>FY 2023 Base Plans:</p> <p>- To provide analysis and support for development and implementation of the Undersea Constellation warfare area strategy.</p> <p>- To provide analyses and support for undersea warfare requirements development.</p> <p>FY 2023 OCO Plans:</p> <p>N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <p>Program increase is attributed to realignment of funding and will cover additional analyses for Undersea Constellation and new analyses supporting Undersea Warfare requirements development.</p>					
Accomplishments/Planned Programs Subtotals	2.210	2.028	2.183	0.000	2.183

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

N/A

Remarks

D. Acquisition Strategy

N/A