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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>				PE 0605856N: <i>Strategic Technical Support</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	3.570	3.451	3.277	-	3.277	3.316	3.392	3.446	3.495	Continuing	Continuing
0128: <i>Mgmt/Tech Supt Strategic</i>	1.308	1.293	1.242	-	1.242	1.284	1.307	1.336	1.361	Continuing	Continuing
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	2.262	2.158	2.035	-	2.035	2.032	2.085	2.110	2.134	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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	3.618	3.451	3.512	-	3.512
Current President's Budget	3.570	3.451	3.277	-	3.277
Total Adjustments	-0.048	-	-0.235	-	-0.235
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.048	-			
• Program Adjustments	-	-	-0.217	-	-0.217
• Rate/Misc Adjustments	-	-	-0.018	-	-0.018

Change Summary Explanation

Technical: N/A

Schedule: N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605856N: <i>Strategic Technical Support</i>	PROJECT 0128: <i>Mgmt/Tech Supt Strategic</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0128: <i>Mgmt/Tech Supt Strategic</i>	1.308	1.293	1.242	-	1.242	1.284	1.307	1.336	1.361	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project provides analytical support to the Director, Submarine 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 2010	FY 2011	FY 2012
Title: MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.308	1.293	1.242
Articles:	0	0	0
FY 2010 Accomplishments: - Continued to examine specific applications for submarine mine countermeasures and develop a strategy for ensuring submarine access to contested areas of the world. - Continued to assess the strategic deterrence (conventional and nuclear) force structure, security, and capability in the Navy. - Continued to perform an in-depth review of undersea warfare research and development requirements, past and present, and propose an investment strategy to maximize future capabilities. - Continued to assess implications of current and developing technologies on undersea warfare in both near and far term systems and develop strategic concepts to guide future acquisitions through partnership with the Naval Postgraduate School. - Continued to assess the submarine forces capabilities in view of emerging technologies and changes in joint and naval strategies. This will be used to develop capability based ideas and concepts to guide research and development and science and technology efforts.			
FY 2011 Plans: - Continue all efforts of FY10.			
FY 2012 Plans: - Continue all efforts of FY11.			
Accomplishments/Planned Programs Subtotals	1.308	1.293	1.242

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605856N: <i>Strategic Technical Support</i>	PROJECT 0128: <i>Mgmt/Tech Supt Strategic</i>

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

N/A

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

This project supports studies in the area of undersea surveillance missions, sensor system, payloads, force employment, communications, acoustic performance prediction systems, environmental and medical effects of acoustics systems including installations/removals, operational security and future threat analysis. Project success is measured through analytical results and constant interaction with the contractors that enable the Director for Submarine Warfare to make decisions effectively.

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605856N: <i>Strategic Technical Support</i>	PROJECT 1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1038: <i>Acoustic & Non-Acoustic Analysis Supt</i>	2.262	2.158	2.035	-	2.035	2.032	2.085	2.110	2.134	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project provides analytical support to the Director, Submarine Warfare Division and the Integrated Undersea Surveillance System (IUSS) Branch Head as a basis for major policy, planning, and acquisition program decisions. It supports studies in the area of undersea surveillance missions, sensor system, communications, acoustic performance prediction systems, environmental and medical effects of acoustic systems including installations/removals, operational security, and future threat analysis. Supports synthetic mission lay down simulations for IUSS strategic planning and resource allocation. Continues development/documentation of architecture for future undersea surveillance capabilities. Supports studies to determine long-term impact of IUSS active sensors on marine animals and development of SURTASS, LFA, and the Supplemental Environmental Impact Statement (EIS).

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

	FY 2010	FY 2011	FY 2012
Title: ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2.262	2.158	2.035
Articles:	0	0	0
FY 2010 Accomplishments:			
- Continued environmental compliance requirements and actions pertinent to Compact Low Frequency Active (CLFA) at-sea testing, training and operations.			
- Continued the SURTASS Engineering Measurements Program (SURTASS EMP) to provide for post-mission engineering analysis of SURTASS acoustic data.			
- Continued environmental compliance support for issuance of annual LOA under the MMPA and required quarterly reporting for SURTASS LFA vessels.			
- Continued analyses to estimate the long-term effects of SURTASS LFA on marine mammals.			
- Continued monitoring of undersea technology for application for future undersea surveillance capabilities.			
FY 2011 Plans:			
- Continue all efforts of FY10.			
FY 2012 Plans:			
- Continue all efforts of FY11.			
Accomplishments/Planned Programs Subtotals	2.262	2.158	2.035

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

N/A

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

This project supports studies in the area of undersea surveillance missions, sensor systems, acoustic performance prediction systems, environmental and medical effects of acoustics systems, and future threat analysis. In addition, it provides research and reports necessary to support Surveillance Towed Array Sonar Systems (SURTASS) Low Frequency Active (LFA) sonar compliance with Federal, State and Local environmental laws required for continued SURTASS LFA operations, analysis of undersea technology for application for future undersea surveillance capabilities, and assessment of current and future Integrated Undersea Surveillance System (IUSS) warfare areas and potential allied Navy contributions. To this goal, research is conducted by educational and research institutions renown for their expertise in the area, and by marine mammal biologists with extensive background in specific areas of underwater acoustics. This approach is deemed the most cost effective and efficient course of action for the Navy.