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FY 2010 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: May 2009

BUDGET ACTIVITY: 06
PROGRAM ELEMENT: 0605856N
PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
Total PE	3.359	3.585	3.633

0128 MANAGEMENT AND TECHNICAL STRATEGIC
SUPPORT

1.279	1.336	1.357
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1038 ACOUSTIC AND NONACOUSTIC ANALYSIS
SUPPORT

2.080	2.249	2.276
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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.

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B. PROGRAM CHANGE SUMMARY:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
President's Budget 2009	3.382	3.597	3.688
Congressional Program Reductions	0.000	-0.011	0.000
Program Adjustments	0.000	0.000	-0.053
Rate/Misc Adjustments	0.000	-0.001	-0.002
SBIR/STTR Transfer	-0.023	0.000	0.000
President's Budget 2010	3.359	3.585	3.633

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

E. PERFORMANCE METRICS:

This program element 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. Program success is measured through analytical results and constant interaction with the contractors that enable the Director for Submarine Warfare to make decisions effectively. 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

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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.

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DATE: May 2009

BUDGET ACTIVITY: 06
 PROGRAM ELEMENT: 0605856N PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT
 PROJECT NUMBER: 0128 PROJECT TITLE: MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
0128 MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT	1.279	1.336	1.357

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 PROGRAM:

	FY 2008	FY 2009	FY 2010
MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.279	1.336	1.357

FY 2008 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.

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DATE: May 2009

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605856N

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT NUMBER: 0128

PROJECT TITLE: MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT

- 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.
- Continued reviews of various submarine operations to assess the safety and security of the ships and missions assigned to identify the problems that require further analysis and study.

FY 2009 Plans:

- Continue all efforts of FY08.

FY 2010 Plans:

- Continue all efforts of FY09.

C. OTHER PROGRAM FUNDING SUMMARY - NAVY RELATED RDT&E:

Not applicable.

OTHER PROGRAM FUNDING SUMMARY - NON-NAVY RELATED RDT&E:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

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DATE: May 2009

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605856N

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT NUMBER: 1038

PROJECT TITLE: ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
1038 ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT	2.080	2.249	2.276

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project provides analytical support to the Director, Submarine Warfare Division and the 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 PROGRAM:

	FY 2008	FY 2009	FY 2010
ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2.080	2.249	2.276

FY 2008 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.
- Continued assessment of current and future IUSS warfare areas and potential allied Navy contributions.

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PROJECT NUMBER: 1038

PROJECT TITLE: ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT

- Completed planning and execution of the Phase II of deep diving odontocete behavioral response study research strategy and continued the marine animal behavioral response studies and research; in concert with ONR, oil industry, and U.K. support.

FY 2009 Plans:

- Continue all efforts of FY08, less those noted as complete above.

FY 2010 Plans:

- Continue all efforts of FY09.

C. OTHER PROGRAM FUNDING SUMMARY - NAVY RELATED RDT&E:

Not applicable.

OTHER PROGRAM FUNDING SUMMARY - NON-NAVY RELATED RDT&E:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.