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FY 2008/2009 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: February 2007

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
Total PE	3,253	3,334	3,452	3,621	3,710	3,791	3,862	3,935
0128 MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT	1,222	1,250	1,310	1,350	1,386	1,418	1,444	1,471
1038 ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT	2,031	2,084	2,142	2,271	2,324	2,373	2,418	2,464

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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2007 President's Budget Submission	3,400	3,347	3,453	3,614
Congressional Adjustments	2	-13	0	0
Functional Realignment for OPNAV Program Support Costs	-62	0	0	0
Non-Pay Inflation Adjustments	0	0	0	1
Program Adjustments	0	0	-1	5
Rate Adjustments	0	0	0	1
SBIR Assessment	-87	0	0	0
FY 2008/FY 2009 President's Budget Submission	3,253	3,334	3,452	3,621

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 his 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,

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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 renowned 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: February 2007

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
0128 MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT	1,222	1,250	1,310	1,350	1,386	1,418	1,444	1,471

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 2006	FY 2007	FY 2008	FY 2009
MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1,222	1,250	1,310	1,350

FY 2006 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.

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PROJECT NUMBER: 0128

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT TITLE: MANAGEMENT AND TECHNICAL STRATEGIC SUPPORT

- 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 2007 Plans:

- Continue all efforts of FY06.

FY 2008 Plans:

- Continue all efforts of FY07.

FY 2009 Plans:

- Continue all efforts of FY08.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

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DATE: February 2007

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 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
1038 ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT	2,031	2,084	2,142	2,271	2,324	2,373	2,418	2,464

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 Surveillance Towed Array Sonar Systems (SURTASS) Low Frequency Active (LFA) Supplemental Environmental Impact Statement (EIS).

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2006	FY 2007	FY 2008	FY 2009
ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2,031	2,084	2,142	2,271

FY 2006 Accomplishments:

- Initiated planning and execution of Phase I of deep diving odontocete behavioral response study research strategy; in concert with ONR, oil industry, and United Kingdom (U.K.) support.
- Completed and filed Draft Supplemental EIS for SURTASS LFA.
- Completed and submitted application for 2nd 5-year Rule for SURTASS LFA under the Marine Mammal Protection Act (MMPA).
- Completed and submitted Biological Assessment for consultation under the Endangered Species Act (ESA) for 2nd 5-year Rule for SURTASS LFA.
- Completed field research for possible update to the guidelines for divers' exposure to underwater low frequency (LF) sound.

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PROJECT TITLE: ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT

- Completed analysis of and, response to, comments on Draft Supplemental EIS for SURTASS LFA.
- Completed field research to determine the potential physiological and behavioral impacts of LFA on fish.
- Continued preparation of Final Supplemental EIS for SURTASS LFA.
- Continued support for 2nd 5-year rule making under the MMPA and associated ESA consultation for SURTASS LFA.
- Continued analyses to estimate the long-term effects of SURTASS LFA on marine mammals.
- Continued environmental compliance support for issuance of annual Letters of Authorization (LOA) under the MMPA and required quarterly reporting for SURTASS LFA vessels.
- 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.

FY 2007 Plans:

- Initiate planning and execution of Phase II of deep diving odontocete behavioral response study research strategy; in concert with ONR, oil industry, and U.K. support.
- Initiate environmental compliance requirements and actions pertinent to Compact Low Frequency Active (CLFA) at-sea testing, training and operations.
- Initiate post-mission engineering analysis of SURTASS acoustic data.
- Initiate and complete review and concurrence on National Marine Fisheries Service (NMFS) biological Opinion and Incidental Take Statements (based on Navy-submitted Biological Assessment).
- Initiate and complete assistance to NMFS for response to comments on the Draft Proposed Rule.
- Complete and file Final Supplemental EIS for SURTASS LFA.
- Complete rule making processes for 2nd 5-year rule and LOAs under the MMPA and associated ESA consultation for SURTASS LFA.
- Complete planning and execution of Phase I of deep diving odontocete controlled exposure experiment research strategy; in concert with ONR, possibly oil industry, and U.K./international support.
- Continue all efforts of FY06 less those noted as completed above.

FY 2008 Plans:

- Complete planning and execution of Phase II of deep diving odontocete behavioral response study research strategy; in concert with ONR, oil industry, and U.K. support.
- Continue all efforts of FY07 less those noted as complete above.

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PROJECT NUMBER: 1038

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT TITLE: ACOUSTIC AND NONACOUSTIC ANALYSIS SUPPORT

FY 2009 Plans:

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

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.