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FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: Feb 2005

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
Total PE	3,743	3,454	3,451	3,605	3,712	3,871	3,958	4,044
R0128 MANAGEMENT/TECHNICAL SUPPORT STRATEGIC								
	1,390	1,242	1,292	1,326	1,379	1,414	1,448	1,482
R1038 ACOUSTIC & NON-ACOUSTIC ANALYSIS SUPPORT								
	2,353	2,212	2,159	2,279	2,333	2,457	2,510	2,562

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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PROGRAM CHANGE SUMMARY:

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
FY 2005 President's Budget Submission	3,837	3,493	3,451	3,601
Cong Rescissions/Adjustments/Undist. Reductions	0	-38	0	0
Program Adjustments	0	-1	0	0
Rate Adjustments	0	0	0	4
SBIR Assessment	-94	0	0	0
FY 2006/2007 President's Budget Submission	3,743	3,454	3,451	3,605

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

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BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605856N

PROJECT NUMBER: R0128

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT TITLE: MANAGEMENT/TECHNICAL SUPPORT STRATEGIC

COST: (Dollars in Thousands)

Project Number & Title	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
R0128 MANAGEMENT/TECHNICAL SUPPORT STRATEGIC	1,390	1,242	1,292	1,326	1,379	1,414	1,448	1,482

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 2004	FY 2005	FY 2006	FY 2007
MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1,390	1,242	1,292	1,326

FY 2004 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

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PROGRAM ELEMENT: 0605856N

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT NUMBER: R0128

PROJECT TITLE: MANAGEMENT/TECHNICAL SUPPORT STRATEGIC

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.
- Completed technical and operational analysis of potential improvements or additions to submarine systems in order to understand their impact on submarine design, performance and safety.

FY 2005 Plans:

- Continue all efforts of FY04, less those noted as completed above.

FY 2006 Plans:

- Continue all efforts of FY05, less those noted as completed above.

FY 2007 Plans:

- Continue all efforts of FY06, less those noted as completed above.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

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DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605856N

PROJECT NUMBER: R1038

PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT TITLE: ACOUSTIC & NON-ACOUSTIC ANALYSIS SUPPORT

Project	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Number	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
& Title								
R1038 ACOUSTIC & NON-ACOUSTIC ANALYSIS SUPPORT								
	2,353	2,212	2,159	2,279	2,333	2,457	2,510	2,562

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 acoustics 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 mammals and development of Surveillance Towed Array Sonar Systems (SURTASS) Low Frequency Active (LFA) Supplemental Environmental Impact Statement (EIS).

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2004	FY 2005	FY 2006	FY 2007
ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	2,353	2,212	2,159	2,279

FY 2004 Accomplishments:

- Continued development of Draft Supplemental EIS for SURTASS LFA.
- Completed preparation of Marine Mammal Stock Estimation Approach Analysis.
- Completed research to determine the impact of IUSS Active Sensors on fish (hearing specialists).
- Completed planning of research to update guidelines for exposure of divers to underwater sound.
- Conducted studies to determine the long-term effects of IUSS Active Sensors on marine mammals.
- Conducted analysis of undersea technology for application for future undersea surveillance capabilities.

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PROGRAM ELEMENT TITLE: STRATEGIC TECHNICAL SUPPORT

PROJECT NUMBER: R1038

PROJECT TITLE: ACOUSTIC & NON-ACOUSTIC ANALYSIS SUPPORT

- Assessed the current and future IUSS warfare areas and potential allied Navy contributions.

FY 2005 Plans:

- Continue all efforts of FY04 less those noted as completed above.
- Complete and file Draft Supplemental EIS for SURTASS LFA.
- Complete research to update guidelines for exposure of divers to underwater low frequency sound.
- Complete analysis of research to determine the impact of IUSS Active Sensors on fish (hearing specialists).
- Initiate and complete research to determine the physiological/behavioral impact of IUSS Active Sensors on fish (hearing non-specialists.)
- Initiate analysis and response to comments on Draft Supplemental EIS for SURTASS LFA.
- Initiate preparation of Final Supplemental EIS for SURTASS LFA.

FY 2006 Plans:

- Continue all efforts of FY05 less those noted as completed above.
- Complete and file Final Supplemental EIS for SURTASS LFA.

FY 2007 Plans:

- Continue all efforts of FY06 less those noted as completed above.
- Initiate maintenance and modification of Final Supplemental EIS for SURTASS LFA.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.