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

DATE: February 2008

BUDGET ACTIVITY: 04
PROGRAM ELEMENT: 0603790N
PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT

COST: (Dollars in Thousands)

Project Number & Title	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
Total PE	10,039	9,797	10,129	10,333	10,050	10,793	11,008
2293 NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)	10,039	9,797	10,129	10,333	10,050	10,793	11,008

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: In accordance with Title 10 United States (U.S.) Code Section 2350a, this Program Element provides funding for research and development (R&D) programs with approved allies under international agreements. These funds can only be applied to work efforts in the U.S., and the Under Secretary of Defense, Acquisition and Technology and Logistics (USD,AT&L) must approve each international agreement. The program provides funds for multiple projects under separately approved international agreements as well as funds that support the establishment of such agreements. Each international agreement is summarized in a separate Summary Statement of Intent (SSOI) that also states why the project serves to increase the defense capabilities of the U.S. The SSOI is used to obtain Project approval by the Department of the Navy and the Office of the Secretary of Defense.

UNCLASSIFIED

UNCLASSIFIED

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B. PROGRAM CHANGE SUMMARY:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2008/FY 2009 President's Budget Submission	9,741	9,934	10,135
Congressional Undistributed Reductions/Rescissions	0	-63	0
Execution Adjustments	450	0	0
Rate Adjustments	0	0	-6
SBIR Assessment	-152	-74	0
FY 2009 President's Budget Submission	10,039	9,797	10,129

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:

The intent of the North Atlantic Treaty Organization (NATO) cooperative R&D program is to provide "start-up" funds for projects seeking allied contributions into cooperative research and development projects with the U.S. The primary metric used in the program is foreign contributions into projects supported by the program. The performance goal is met if total foreign contributions into projects exceed total NATO cooperative R&D program funds by over 100%.

UNCLASSIFIED

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Exhibit R-2a

DATE: February 2008

BUDGET ACTIVITY: 04
 PROGRAM ELEMENT: 0603790N PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT
 PROJECT NUMBER: 2293 PROJECT TITLE: NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)

COST: (Dollars in Thousands)

Project Number & Title	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
2293 NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)	10,039	9,797	10,129	10,333	10,050	10,793	11,008

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: In accordance with Title 10 U.S. Code Section 2350a, this project provides funding for research and development projects with approved allies under international agreements. These funds can only be applied to work efforts in the U.S., and the USD,AT&L must approve each international agreement. The program provides funds for multiple projects under separately approved international agreements as well as funds that support the establishment of such agreements. Each international agreement is summarized in a separate SSOI which also states why the project serves to increase the conventional defense capabilities of the U.S. The SSOI is used to obtain Project approval by the Department of the Navy and the Office of the Secretary of Defense.

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
COOPERATIVE PROJECTS	10,039	9,797	10,129

FY 2007 Accomplishments:

- Completed support for the Multilateral Memorandum of Understanding (MOU) for Interoperable Networks for Secure Communication.
- Continued to provide support for the identification and development of MOUs with one or more approved major allies for the purpose of conducting cooperative research and development projects on defense equipment and munitions. These international agreements MOUs are approved by USD,AT&L and are submitted in separate SSOIs.
- Continued to support the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom (U.K.).
- Continued to support the Unmanned Undersea Vehicles (UUV), Intelligence, Surveillance and Reconnaissance (ISR) and Anti-Submarine Warfare (ASW) cooperative project between the U.S. and the U.K.

UNCLASSIFIED

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- Continued to support the Advanced Hull Materials and Structures Technology (AHM&ST) cooperative project between the U.S. and Japan.
- Continued to support the multilateral cooperative project concerning Maritime Missile Defense Modeling and Simulation.
- Continued to provide support for the Six (6) Degrees of Freedom Ship Roll cooperative project between the U.S. and Italy.
- Continued to provide support for the cooperative project between the U.S. and Australia concerning Australia United States Phased Array Radar (AUSPAR).
- Continued to provide support for the cooperative project between the U.S. and Singapore regarding Multi-Statics Sonar.
- Continued to provide support for the cooperative project between the U.S. and U.K. regarding Stand-Off Sensors for Non-Acoustic ASW and ISR.
- Continued to provide support for the cooperative project between the U.S. and Japan regarding Japan/United States Radar Research (JUSRR).
- Continued to support the cooperative project between the U.S. and Japan regarding Open Architecture.
- Continued to support the cooperative project between the U.S. and Australia regarding the Australia/U.S. Distributed Engineering Plan (AUSDEP).
- Supported the cooperative project between the U.S. and Germany regarding Torpedo Countermeasures ELF Sensor System.
- Supported the cooperative project between the U.S. and the Netherlands regarding Failure Prediction of Composite and Hybrid Naval Structures (DYCOSS 3D).
- Supported the cooperative project between the U.S. and the Republic of Korea regarding Low Cost Guided Imaging Rocket.
- Supported the cooperative project between the U.S. and Singapore regarding Comprehensive Maritime Awareness (CMA) Joint Capability Technology Demonstration.
- Supported the cooperative project between the U.S. and Sweden regarding Nonacoustic Sensing and Nonlinear Dynamics (NSND) Amendment 1.
- Planned support for the cooperative project between the U.S. and Singapore regarding Infrared Hyperspectral Imaging at Wavelengths Beyond 3um.
- Planned support for the cooperative project between the U.S. and U.K. regarding Torpedo Guidance and Control.
- Planned support for the cooperative project between the U.S. and U.K. regarding Network Centric Mapping Database (NCMD).
- Planned support for the cooperative project between the U.S. and U.K. regarding Next Generation

R1 Line Item 69

Page 4 of 8

UNCLASSIFIED

UNCLASSIFIED

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Countermeasures.

- Planned support for the cooperative project between the U.S. and Australia regarding Multiplexed Fiber Laser Sensors.
- Planned support for the multilateral cooperative project regarding Open Architecture Radar Interface Standard Project (OARIS).

FY 2008 Plans:

- Continue to support approved cooperative projects.
- Initiate support for the Coalition Maritime Missile Defense Battle Management C4I (BMC4I) Architecture Definition project between the U.S. and multiple nations.
- Initiate support for the ALR-67(v3) project between the U.S. and Australia.
- Initiate support for enhancing and validating the Dynamic System Mechanics Advanced Simulation (DYSMAS) to meet emerging modeling and simulation changes project between the U.S. and Germany.
- Initiate support for Open Architecture Radar Interface Standard (OARIS) project between the U.S. and multiple nations.
- Initiate support for multiplexed fiber laser sensors project between the U.S. and Australia.
- Initiate support for Torpedo Guidance and Control; False Targets project between the U.S. and U.K.
- Initiate support for Advanced Non-Acoustic Magnetometer Technologies project between the U.S. and Sweden.
- Initiate Intelligence Ship Detection (MISD-I) project between the U.S. and U.K.

FY 2009 Plans:

- Continue to support approved cooperative projects.
- Initiate support for the Air-Independent Refuelable Energy System for Unmanned Undersea Vehicle (UUV) Application project between the U.S. and U.K.
- Initiate support for the Coalition Maritime Missile Defense Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) Architecture Definition PA2 between the U.S. and multiple nations.

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

PE 0605853N Management, Technical & International Support

UNCLASSIFIED

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

PE 0605130D8Z Foreign Comparative Testing

D. ACQUISITION STRATEGY:

Not applicable.

UNCLASSIFIED

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A. PROJECT COST BREAKDOWN: (\$ in thousands)

Project Cost Categories	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
a. Cooperative Research and Development	10,039	9,797	10,129

B. BUDGET ACQUISITION HISTORY AND PLANNING INFORMATION:

PERFORMING ORGANIZATIONS

Contractor/ Government Performing <u>Activity</u> Product Development	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	<u>FY 2007</u> <u>Budget</u>	<u>FY 2008</u> <u>Budget</u>	<u>FY 2009</u> <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
NAVSEA	PD				4,724	2,752	2,299	CONT.	CONT.
NSWC	WX				2,215	3,205	2,206	CONT.	CONT.
NUWC	WX				740	395	800	CONT.	CONT.
SPAWAR	WX				300	600	525	CONT.	CONT.
NAVAIR	WX				100	800	1,500	CONT.	CONT.
NRL	WX				1,210	710	600	CONT.	CONT.
Miscellaneous					750	1,335	2,199	CONT.	CONT.
Total					10,039	9,797	10,129		

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Contractor/ Government Performing Activity Support and Management	Contract Method/ Fund Type Vehicle	Award/ Oblig Date	Perform Activity EAC	Project Office EAC	<u>FY 2007 Budget</u>	<u>FY 2008 Budget</u>	<u>FY 2009 Budget</u>	<u>To Complete</u>	<u>Total Program</u>
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Contractor/ Government Performing Activity Test and Evaluation	Contract Method/ Fund Type Vehicle	Award/ Oblig Date	Perform Activity EAC	Project Office EAC	<u>FY 2007 Budget</u>	<u>FY 2008 Budget</u>	<u>FY 2009 Budget</u>	<u>To Complete</u>	<u>Total Program</u>
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GOVERNMENT FURNISHED PROPERTY: Not applicable.

	<u>FY 2007 Budget</u>	<u>FY 2008 Budget</u>	<u>FY 2009 Budget</u>	<u>To Complete</u>	<u>Total Program</u>
Subtotal Product Development	10,039	9,797	10,129	CONT.	CONT.
Subtotal Support and Management	0	0	0	CONT.	CONT.
Subtotal Test and Evaluation	0	0	0	0	0
Total Project	10,039	9,797	10,129	CONT.	CONT.