

UNCLASSIFIED

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

DATE: May 2009

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

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
Total PE	10.960	10.094	10.194

2293 NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)	10.960	10.094	10.194
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A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: In accordance with Title 10 United States 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.

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B. PROGRAM CHANGE SUMMARY:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Previous President's Budget	9.797	10.129	10.333
Congressional Program Reductions	0.000	-0.027	0.000
Program Adjustments	0.000	0.000	-0.140
Rate/Misc Adjustments	0.000	-0.008	0.001
SBIR/STTR Transfer	-0.037	0.000	0.000
Total Reprogrammings	1.200	0.000	0.000
Current BES/President's Budget	10.960	10.094	10.194

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%.

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FY 2010/2011 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2a

DATE: May 2009

BUDGET ACTIVITY: 04

PROGRAM ELEMENT: 0603790N

PROJECT NUMBER: 2293

PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT

PROJECT TITLE: NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
2293 NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)	10.960	10.094	10.194

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 Office of Secretary of Defense 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 2008	FY 2009	FY 2010
COOPERATIVE PROJECTS	10.960	10.094	10.194

FY 2008 Accomplishments:

- Continued to provide support for the identification and development of international agreements 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 are approved by USD AT&L and are submitted in separate SSOIs.
- Continued to support the Advanced Hull Materials and Structures Technology (AHM&ST) cooperative project between the U.S. and Japan.
- Continued to support the cooperative Failure Prediction of Composite and Hybrid Naval Structures (DYCOSS 3D) project between the U.S. and the Netherlands.

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- Completed support for the Multi-Statics Sonar cooperative project between the U.S. and Singapore.
- Completed support for the Torpedo Countermeasures ELF Sensor System cooperative project between the U.S. and Germany.
- Completed support for the Japan/United States Radar Research (JUSRR) cooperative project between the U.S. and Japan.
- Completed support for 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.
- Completed support for the Australia/United States Phased Array Radar (AUSPAR) cooperative project between the U.S. and Australia.
- Completed support for the Open Architecture cooperative project between the U.S. and Japan.
- Completed support for the Australia/United States Distributed Engineering Plan (AUSDEP) cooperative project between the U.S. and Australia.
- Completed support for the Low Cost Guided Imaging Rocket (LOGIR) cooperative project between the U.S. and the Republic of Korea.
- Completed support for the Infrared Hyperspectral Imaging at Wavelengths Beyond 3um cooperative project between the U.S. and Singapore.
- Initiated support for amendment one to the Advanced Radar Technology Integrated System Testbed cooperative project between the U.S. and the U.K.
- Initiated support for the Multiplexed Fiber Laser Sensors cooperative project between the U.S. and Australia.
- Initiated support for Torpedo Guidance and Control; False Targets project between the U.S. and U.K.
- Planned support for the Open Architecture Radar Interface Standard Project (OARIS) cooperative project between the U.S. and multiple nations.
- Planned support for the Coalition Maritime Missile Defense Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) Architecture Definition PA2 cooperative project between the U.S. and multiple nations.
- Planned support for the ALR-67(v3) cooperative project between the U.S. and Australia.
- Planned support for enhancing and validating the Dynamic System Mechanics Advanced Simulation (DYSMAS) to meet Emerging Modeling and Simulation Changes cooperative project between the U.S. and Germany.
- Planned support for the Advanced Non-Acoustic Sensing Magnetometer Technologies cooperative project between the U.S. and Sweden.
- Planned support for the Multi-Intelligence Ship Detection Using Imagery (MISD-I) cooperative project between the U.S. and U.K.

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PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT

PROJECT TITLE: NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)

FY 2009 Plans:

- Continue to plan and/or support approved cooperative projects.
- Complete support for the Advanced Hull Materials and Structures Technology (AHM&ST) cooperative project between the U.S. and Japan.
- Plan support for the Alternate Material Propeller cooperative project between the U.S. and Australia.
- Plan support for the Surface Combatant Aluminum Structure Design cooperative project between the U.S., Finland and Germany.
- Plan support for the Submarine Hydrodynamics Maneuvering & Control cooperative project between the U.S. and the U.K.
- Plan support for the Maritime Missile Defense Modeling and Simulation Synthetic Interoperability Testing and Evaluation (Site) cooperative project between the U.S. and multiple nations.
- Plan support for the Coalition Distributed Engineering Plant Baseline Architecture (CDEP-BA) cooperative project between the U.S. and multiple nations.
- Plan support for the Submarine Sonar Advanced Processing Build-Acoustic Rapid COTS Insertion (APB-ARCI) Amendment 1 project between the U.S. and the U.K.
- Plan support for the Defensive Aids Suite/Next Generation Torpedo Defense project between the U.S. and the U.K.
- Plan support for the Submarine Sonar Telemetry project between the U.S. and the U.K.
- Plan support for the Six Degrees of Freedom (6DOF) Amendment 1 project between the U.S. and Italy.
- Plan support for the Coalition Network for Secure Information Sharing (CoNSIS) cooperative project between the U.S. and multiple nations.
- Plan and initiate support for the Medusa Joint Capability Technology Demonstration (JCTD) cooperative project between the U.S. and the Republic of Korea.

FY 2010 Plans:

- Continue to plan and/or support approved cooperative projects.

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

PE 0605853N Management, Technical & International Support

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

PE 0603923D8Z Coalition Warfare

PE 0605130D8Z Foreign Comparative Testing

D. ACQUISITION STRATEGY:

Not applicable.

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PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT
PROJECT TITLE: NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)

A. PROJECT COST BREAKDOWN: (Dollars in Millions)

Project Cost Categories	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
a. Cooperative Research and Development	10.960	10.094	10.194

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 2008</u> <u>Budget</u>	<u>FY 2009</u> <u>Budget</u>	<u>FY 2010</u> <u>Budget</u>	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
NAVSEA	PD				3.689	2.026	3.317	CONT.	CONT.
NSWC	WX				3.219	2.867	2.765	CONT.	CONT.
NUWC	WX				1.345	.400	.450	CONT.	CONT.
SPAWAR	WX				0.000	1.150	.650	CONT.	CONT.
NAVAIR	WX				.260	1.000	.500	CONT.	CONT.
NRL	WX				1.110	.950	.300	CONT.	CONT.
Miscellaneous					1.337	1.701	2.212	CONT.	CONT.
Total					10.960	10.094	10.194		

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PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT
PROJECT TITLE: NATO COOPERATIVE RESEARCH AND DEVELOPMENT (R&D)

Contractor/ Government Performing <u>Activity</u>	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	<u>FY 2008</u> Budget	<u>FY 2009</u> Budget	FY 2010 Budget	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Support and Management									

Contractor/ Government Performing <u>Activity</u>	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	<u>FY 2008</u> Budget	<u>FY 2009</u> Budget	FY 2010 Budget	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Test and Evaluation									

GOVERNMENT FURNISHED PROPERTY: Not applicable.

	<u>FY 2008</u> Budget	<u>FY 2009</u> Budget	FY 2010 Budget	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Subtotal Product Development	10.960	10.094	10.194	CONT.	CONT.
Subtotal Support and Management	0.000	0.000		CONT.	CONT.
Subtotal Test and Evaluation	0.000	0.000		0.000	0.000
Total Project	10.960	10.094	10.194	CONT.	CONT.