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

DATE: Feb 2005

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

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	9,333	10,053	10,335	10,563	10,949	11,101	11,359	11,620
R2293 NATO COOPERATIVE R & D	9,333	10,053	10,335	10,563	10,949	11,101	11,359	11,620

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: In accordance with Title 10 U.S. Code Section 2350a, this Program Element 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 Under Secretary of Defense, Acquisition and Technology (USD,A&T) 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) which also states why the project serves to increase the conventional defense capabilities of the U.S.

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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	11,338	10,151	10,345	10,533
Cong Rescissions/Adjustments/Undist. Reductions	0	-96	0	0
Execution Adjustments	1,523	0	0	0
Non-Pay Inflation Adjustments	0	0	3	4
Program Adjustments	0	-2	-10	-9
Rate Adjustments	0	0	-3	35
Technical Adjustments	-3,528	0	0	0
FY 2006/2007 President's Budget Submission	9,333	10,053	10,335	10,563

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

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PROGRAM ELEMENT: 0603790N

PROJECT NUMBER: R2293

PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT

PROJECT TITLE: NATO COOPERATIVE R & D

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
R2293 NATO COOPERATIVE R & D	9,333	10,053	10,335	10,563	10,949	11,101	11,359	11,620

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 Under Secretary of Defense, Acquisition and Technology (USD,A&T) 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.

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2004	FY 2005	FY 2006	FY 2007
COOPERATIVE PROJECTS	9,333	10,053	10,335	10,563

FY 2004 Accomplishments:

- Supported the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom.
- Supported the Common Operational Picture Interoperability for Coalition Warfare cooperative project between the U.S. and France.
- Supported the Multilateral Memorandum of Understanding (MOU) for Interoperable Networks for Secure Communication.
- Supported the Mechanisms and Prediction of Surface Ship Radiated Flow-Noise cooperative project between the U.S. and the Netherlands.

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PROJECT NUMBER: R2293

PROJECT TITLE: NATO COOPERATIVE R & D

- Supported the Submarine Sonar Advanced Processing Build - Acoustic Rapid Commercial Off The Shelf (COTS) Insertion (APB-ARCI) cooperative project between the U.S. and the United Kingdom.
- Supported the Unmanned Undersea Vehicles (UUV), Intelligence, Surveillance and Reconnaissance (ISR) and Anti-Submarine Warfare (ASW) cooperative program between the U.S. and the United Kingdom.
- Supported the Software Radio cooperative project between the U.S. and Japan.
- Supported the Advanced Hull Materials and Structures Technology (AHM&ST) cooperative project between the U.S. and Japan.
- Supported the Multilateral cooperative project concerning Coalition Maritime Missile Defense Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) Architecture Definition.
- Supported the Dynamic Failure Prediction of Joints in Composite Sandwich Structures cooperative project between the U.S. and the Netherlands.
- Supported the Maritime Missile Defense Modeling and Simulation cooperative project between the U.S and the United Kingdom.
- Supported the Multilateral MOU for Standard Missile.
- Supported the U.S. and United Kingdom Naval Fires project under the Naval Combat Systems Interoperability Technology cooperative project.
- Supported the Enhanced Undersea Weapons Effectiveness and Ship Survivability through the Application of Validated Computer Codes cooperative project between the U.S. and Germany.

FY 2005 Plans:

- Continue to support the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom.
- Continue to support the Multilateral MOU for Interoperable Networks for Secure Communication.
- Continue to support the Submarine Sonar APB-ARCI cooperative project between the U.S. and the United Kingdom.
- Continue to support the UUV, ISR and ASW cooperative program between the U.S. and the United Kingdom.
- Continue to support the Software Radio cooperative project between the U.S. and Japan.
- Continue to support the AHM&ST cooperative project between the U.S. and Japan.
- Continue to support the Multilateral cooperative project concerning Coalition Maritime Missile Defense BMC4I Architecture Definition.
- Continue to support the Maritime Missile Defense Modeling and Simulation cooperative project between the U.S and the United Kingdom.
- Continue to support the Multilateral MOU for Standard Missile.

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PROGRAM ELEMENT TITLE: NATO RESEARCH AND DEVELOPMENT

PROJECT NUMBER: R2293

PROJECT TITLE: NATO COOPERATIVE R & D

- Continue to support the Enhanced Undersea Weapons Effectiveness and Ship Survivability through the Application of Validated Computer Codes cooperative project between the U.S. and Germany.
- Support the Six (6) Degrees of Freedom Ship Roll cooperative project between the U.S. and Italy.
- Support the cooperative project concerning Australia United States Phased Array Radar (AUSPAR) between the U.S. and Australia.
- Support the cooperative project between the U.S. and Singapore regarding Multi-Statics Sonar.
- Support the cooperative project between the U.S. and U.K. regarding Next Generation Countermeasures.
- Support the Interoperability Study between the U.S. and the U.K.
- Continue 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,A&T and are submitted in separate SSOIs.

FY 2006 Plans:

- Continue to support the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom.
- Continue to support the Multilateral MOU for Interoperable Networks for Secure Communication.
- Continue to support the Submarine Sonar APB-ARCI cooperative project between the U.S. and the United Kingdom.
- Continue to support the UUV, ISR and ASW cooperative program between the U.S. and the United Kingdom.
- Continue to support the AHM&ST cooperative project between the U.S. and Japan.
- Continue to support the Multilateral cooperative project concerning Coalition Maritime Missile Defense BMC4I Architecture Definition.
- Continue to support the Enhanced Undersea Weapons Effectiveness and Ship Survivability through the Application of Validated Computer Codes cooperative project between the U.S. and Germany.
- Support the cooperative project concerning Australia United States Phased Array Radar (AUSPAR) between the U.S. and Australia.
- Support the cooperative project between the U.S. and Singapore regarding Multi-Statics Sonar.
- Support the cooperative project between the U.S. and U.K. regarding Next Generation Countermeasures.
- Support the cooperative project between the U.S. and U.K. regarding Fiber Laser Sensors.
- Support the cooperative project between the U.S. and Japan regarding S-Band Radar.
- Support the cooperative project between the U.S. and Japan regarding Open Architecture.
- Support the cooperative project between the U.S. and Australia regarding the Australia/U.S. Distributed Engineering Plan (AUSDEP).

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FY 2007 Plans:

- Continue 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,A&T and are summarized in separate SSOIs.

C. OTHER PROGRAM FUNDING SUMMARY:

NAVY RELATED RDT&E:

PE 0605853N (Management, Technical and International Support)

NON-NAVY RELATED RDT&E:

PE 0605130D (Foreign Comparative Testing)

D. ACQUISITION STRATEGY:

Not applicable.

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FY 2005 RDT&E,N PROGRAM ELEMENT/PROJECT COST BREAKDOWN
Exhibit R-3

DATE: Feb 2005

BA: 04 PROGRAM ELEMENT: 0603790N
PROJECT ELEMENT TITLE: NATO Research and Development

Project Number: R2293
Project Title: NATO
Cooperative R&D

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

Project Cost Categories	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
a. Cooperative Research and Development	9,333	10,053	10,335	10,563

B. BUDGET ACQUISITION HISTORY AND PLANNING INFORMATION:

PERFORMING ORGANIZATIONS

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 2004</u> <u>Budget</u>	<u>FY 2005</u> <u>Budget</u>	<u>FY 2006</u> <u>Budget</u>	<u>FY 2007</u> <u>Budget</u>	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Product Development										
NAVSEA	PD				2,162	2,700	2,070		CONT.	CONT.
NSWC	WX				850	3,250	1,600		CONT.	CONT.
NUWC	WX				0	0	0		CONT.	CONT.
SPAWAR	PD				1,600	250	0		CONT.	CONT.
PEO(LMW)	PD				2,500	2,998	500			
PEO(IWS)	PD				0	0	0			
Miscellaneous					2,221	855	6,165	10,563	CONT.	CONT.

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Exhibit R-3

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BA: 04 PROGRAM ELEMENT: 0603790N
PROJECT ELEMENT TITLE: NATO Research and Development

Project Number: R2293
Project Title: NATO
Cooperative R&D

Contractor/ Government Performing <u>Activity</u> Support and Management	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	FY 2004 <u>Budget</u>	FY 2005 <u>Budget</u>	FY 2006 <u>Budget</u>	FY 2007 <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
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Contractor/ Government Performing <u>Activity</u> Test and Evaluation	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	FY 2004 <u>Budget</u>	FY 2005 <u>Budget</u>	FY 2006 <u>Budget</u>	FY 2007 <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
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GOVERNMENT FURNISHED PROPERTY: Not applicable.

	FY 2004 <u>Budget</u>	FY 2005 <u>Budget</u>	FY 2006 <u>Budget</u>	FY 2007 <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
Subtotal Product Development	9,333	10,053	10,335	10,563	CONT.	CONT.
Subtotal Support and Management	0	0	0	0	CONT.	CONT.
Subtotal Test and Evaluation	0	0	0	0	0	0
Total Project	9,333	10,053	10,335	10,563	CONT.	CONT.

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