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FY 2005 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: Feb 2004

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
R2293 NATO Cooperative R & D	12,804	11,338	10,151	10,345	10,533	10,734	10,853
Totals	12,804	11,338	10,151	10,345	10,533	10,734	10,853

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: In accordance with Title 10 U.S. Code Section 2350a, this PE 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 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FY 2004-2005 President's Budget Submission	11,326	11,469	11,955
Administrative adjustment	-16	0	0
Cong. Rescissions/Adjustments/Undist.Reductions	0	-127	0
FY03 BTR	1,684	0	0
Inflation Savings	0	0	-33
Rate Adjustments	0	-4	-19
SBIR Assessment	-190	0	0
Technical Adjustments	0	0	-1,752
FY 2005 President's Budget Submission	12,804	11,338	10,151

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable
Schedule: Not applicable

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FY 2005 RDT&E,N PROGRAM ELEMENT/PROJECT COST BREAKDOWN
Exhibit R-2a

DATE: Feb 2004

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

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
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R2293 NATO Cooperative R & D	12,804	11,338	10,151	10,345	10,533	10,734	10,853
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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 2003	FY 2004	FY 2005
Cooperative Projects	12,804	11,338	10,151

FY 2003 Accomplishments:

- Supported the Multilateral Memorandum of Understanding (MOU) for Interoperable Networks for Secure Communication.
- Supported on-going efforts on the Multilateral MOU for LW-155 Howitzer.
- Supported the Naval Combat Systems Interoperability Technology 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 Dynamic Failure Prediction of Joints in Composite Sandwich Structures cooperative project between the U.S. and the Netherlands.

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PROJECT ELEMENT TITLE: NATO Research and Development

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

- Supported the Six (6) Degrees of Freedom Ship Roll cooperative project between the U.S. and Italy.
- Supported the Software Radio cooperative project between the U.S. and Japan.
- Supported the Vulnerability of Torpedo to Underwater Explosions cooperative project between the U.S. and Germany.
- Supported the Unmanned Undersea Vehicle for Mine Countermeasures cooperative project between the U.S. and the United Kingdom.
- Supported the Advanced Hull Materials & Structures Technology (AHM&ST) cooperative project between the U.S. and Japan.
- Supported the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom.
- Supported the Component Research for Ballistic Missile Defense cooperative project between the U.S. and Japan.
- Supported the Mechanisms and Prediction of Surface Ship Radiated Flow-Noise cooperative project between the U.S. and the Netherlands.
- 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 U.S. and United Kingdom Naval Fires project under the Naval Combat Systems Interoperability Technology cooperative project.

FY 2004 Plans:

- Support the Six (6) Degrees of Freedom Ship Roll cooperative project between the U.S. and Italy.
- Support the Advance Radar Technology Integrated System Testbed cooperative project between the U.S. and the United Kingdom.
- Support the Common Operational Picture Interoperability for Coalition Warfare cooperative project between the U.S. and France.
- Support the Homing Sonar for Supercavitating Vehicles cooperative project between the U.S. and Germany.
- Support the Multilateral MOU for Interoperable Networks for Secure Communication.
- Support the Mechanisms and Prediction of Surface Ship Radiated Flow-Noise cooperative project between the U.S. and the Netherlands.
- Support the Submarine Sonar Advanced Processing Build - Acoustic Rapid COTS Insertion (APB-ARCI) cooperative project between the U.S. and the United Kingdom.
- Support the relationship between Acoustic Array Gain Variability and Shelf/Shelf Break Fluid Processes cooperative project between the U.S. and the Republic of Korea.

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Exhibit R-2a

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PROJECT ELEMENT TITLE: NATO Research and Development

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

- Support the UUV ISR and ASW cooperative program between the U.S. and the United Kingdom.
- Support the Software Radio cooperative project between the U.S. and Japan.
- Support the AHM&ST cooperative project between the U.S. and Japan.
- Support the Multilateral cooperative project concerning Coalition Maritime Missile Defense Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) Architecture Definition.
- Support the Standoff Sensors cooperative program between the U.S. and the United Kingdom.
- Support the Dynamic Failure Prediction of Joints in Composite Sandwich Structures cooperative project between the U.S. and the Netherlands.
- Support the Modeling and Simulation cooperative project between the U.S and the United Kingdom.
- Support the Multilateral MOU for Standard Missile.
- Support the U.S. and United Kingdom Naval Fires project under the Naval Combat Systems Interoperability Technology cooperative project.
- Support 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 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 2004

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 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
a. Cooperative Research and Development	12,804	11,338	10,151

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 2003</u> <u>Budget</u>	<u>FY 2004</u> <u>Budget</u>	<u>FY 2005</u> <u>Budget</u>	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Product Development									
NAVSEA	PD				1,650	4,300		CONT.	CONT.
NSWC	WX				1,295	550		CONT.	CONT.
NUWC	WX				500	0		CONT.	CONT.
SPAWAR	PD				1,500	300		CONT.	CONT.
PEO(LMW)	PD				1,000	2,500			
PEO(IWS)	PD				0	310			
Miscellaneous					6,859	3,378	10,151	CONT.	CONT.

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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 2003 <u>Budget</u>	FY 2004 <u>Budget</u>	FY 2005 <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 2003 <u>Budget</u>	FY 2004 <u>Budget</u>	FY 2005 <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
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GOVERNMENT FURNISHED PROPERTY: Not applicable.

	FY 2003 <u>Budget</u>	FY 2004 <u>Budget</u>	FY 2005 <u>Budget</u>	To <u>Complete</u>	Total <u>Program</u>
Subtotal Product Development	12,804	11,338	10,151	CONT.	CONT.
Subtotal Support and Management	0	0		CONT.	CONT.
Subtotal Test and Evaluation	0	0		0	0
Total Project	12,804	11,338	10,151	CONT.	CONT.

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