

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
								February 2006			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /						0603654N/Joint Service EOD Development					
BA-4											
COST (\$ in Millions)	Prior Years Cost		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Total Program
Total PE Cost			25.511	33.898	24.467	25.832	24.881	20.201	20.706	Continuing	Continuing
0377/Joint Service EOD Systems			* 11.622	23.273	15.612	17.690	17.506	13.364	13.737	Continuing	Continuing
1317/EOD Diving System			2.431	2.262	2.700	2.753	2.745	2.798	2.853	Continuing	Continuing
4023/VSW MCM/ Force Protection UUV			** 9.681	8.363	6.155	5.389	4.630	4.039	4.116	Continuing	Continuing
4024/SMCM Shallow and Deep Water UUV			1.777	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles			Various	Various	Various	Various	Various	Various	Various		0
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:											
* Includes \$4.450M IED Defeat Supplemental funding for Convoy PlanningTool (\$3.850M) and Disposable Firing System (\$.600M).											
** Includes a \$3.4M Congressional Add for Magneto-Inductive Technology											
This is a Joint Service Program. This program provides for the development of Explosive Ordnance Disposal tools and equipment for use by all military services. The responsibility is assigned to the Navy as single service manager, by Department of Defense Directive 5160.62 of 26 April 1989, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program. Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the special equipment and tools required to support this mission. This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance.											

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		11.622	23.273	15.612	17.690	17.506	13.364	13.737
RDT&E Articles Qty		Various	Various	Various	Various	Various	Various	Various

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Provides Explosive Ordnance Disposal personnel of all military services with the specialized equipment and tools required to support their mission of detection/location, identification, render-safe, recovery, field and laboratory evaluation, and disposal of unexploded ordnance (UXO) that is a threat to military operations, installations, personnel, or material. UXO includes foreign and domestic, both conventional and non-conventional, including improvised explosive devices (IEDs).

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems																	
<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;"></th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center;">5.035</td><td style="text-align: center;">8.287</td><td style="text-align: center;">7.780</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></tbody></table>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		5.035	8.287	7.780	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		5.035	8.287	7.780															
RDT&E Articles Quantity		Various	Various	Various															
<div style="border: 1px solid black; padding: 5px; min-height: 50px;">Develop EOD detection, identification and knowledge systems to include the EOD Decision Support System (EOD DSS) (formerly the Joint EOD Knowledge Technology Operational Demonstration Advanced Concept Technology Demonstration (JEOD-KTOD ACTD) project), and Convoy Planning Tool. Also, conduct Analysis of Alternatives studies and conduct evaluations of Commercial/Non-Developmental Items (C/NDI EOD tools/equipment).</div>																			
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<div style="border: 1px solid black; padding: 5px; min-height: 50px;">Develop access, disruption and neutralization systems to include, the Large IED Access and Disruption project, the Submunition Clearance project, the Joint Laser Ordnance Neutralization System (JLONS), and the Disposable Firing System. Conduct Analysis of Alternatives study for the Low Order Tools project. Also, conduct Analysis of Alternatives studies and conduct evaluations of Commercial/Non-Developmental Item (C/NDI) EOD tools/equipment.</div>																			
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<div style="border: 1px solid black; padding: 5px; min-height: 50px;">Develop remote systems to include the EOD Man Portable Robotics Program (MPRS) project.</div>																			

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Classified Project III (A & B) and Joint Service Improvised Explosive Device Countermeasures project.																			
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<p><b>(U) C. PROGRAM CHANGE SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 15%; text-align: right;">FY 2005</th> <th style="width: 15%; text-align: right;">FY 2006</th> <th style="width: 20%; text-align: right;">FY 2007</th> </tr> </thead> <tbody> <tr> <td>(U) Funding:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Previous President's Budget</td> <td style="text-align: right;">7.269</td> <td style="text-align: right;">23.631</td> <td style="text-align: right;">19.386</td> </tr> <tr> <td>(FY 06 Pres Controls):</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Current BES/President's Budget</td> <td style="text-align: right;">11.622</td> <td style="text-align: right;">23.273</td> <td style="text-align: right;">15.612</td> </tr> <tr> <td>(FY07 Pres Controls):</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">4.353</td> <td style="text-align: right; border-top: 1px solid black;">-0.358</td> <td style="text-align: right; border-top: 1px solid black;">-3.774</td> </tr> <tr> <td>Summary of Adjustments</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Programmatic Changes</td> <td style="text-align: right;">4.450</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">-3.725</td> </tr> <tr> <td>Other general provisions</td> <td style="text-align: right;">-0.097</td> <td style="text-align: right;">-0.358</td> <td style="text-align: right;">-0.049</td> </tr> <tr> <td>Subtotal</td> <td style="text-align: right; border-top: 1px solid black;">4.353</td> <td style="text-align: right; border-top: 1px solid black;">-0.358</td> <td style="text-align: right; border-top: 1px solid black;">-3.774</td> </tr> </tbody> </table> <p style="margin-top: 20px;">(U) Schedule:</p> <p>The production decision for the Submunitions Clearance project has moved from 2Q FY05 to 4Q FY05, reflecting additional T&amp;E required to ensure additional requirements for electromagnetic compatibility are met. The Milestone B for Joint Laser Ordnance Neutralization System (JLONS) moved from 3Q FY05 to 4Q FY05 due to delays in achieving consensus among the Services and review of the joint Capabilities Development Document (CDD). Also, as the requirements have been identified and are greater than previously expected, the RDT&amp;E phase is expected to take more time, so the Milestone C is moved from 4Q FY08 to 2Q FY10. The AOA conducted for Classified III identified two unique requirements, now identified as Classified III A and Classified III B. Classified III A is an AAP, and Classified III B will be an ACAT program, and urgency and technology availability will permit a Milestone C for Classified III B to occur earlier (moved from 2Q FY10 to 3Q FY08.) An accelerated AOA will be conducted for the JS IED ECM project, resulting in an earlier project initiation. Technology required for the Advanced Ordnance Locator (AOL) has not matured as quickly as expected, therefore the project initiation date has now been set for 3Q FY09 based upon technology forecasts. The joint requirements for the Decision Support System (DSS) have been established by the users from all four Services, the resulting CDD captures the necessary development cycle, and the schedule has been revised to reflect these requirements. The Non-Invasive Filler Identification (NFI) project was cancelled due to the immaturity of technology suitable in EOD operational environments.</p> <p>(U) Technical:</p>					FY 2005	FY 2006	FY 2007	(U) Funding:				Previous President's Budget	7.269	23.631	19.386	(FY 06 Pres Controls):				Current BES/President's Budget	11.622	23.273	15.612	(FY07 Pres Controls):				Total Adjustments	4.353	-0.358	-3.774	Summary of Adjustments				Programmatic Changes	4.450	0.000	-3.725	Other general provisions	-0.097	-0.358	-0.049	Subtotal	4.353	-0.358	-3.774
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APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development		PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems			

**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
OPN 5509	1574	12496	13291						
(Funds listed in section D. are only for cost code VN075, EOD Equipment/Systems.)									

**(U) E. ACQUISITION STRATEGY: \***

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

**(U) F. MAJOR PERFORMERS: \*\***

The majority of funding in this line is executed by Naval Explosive Ordnance Disposal Technology Division located in Indian Head, MD in FY05 through FY07. The funding is used for development of Joint Service EOD tools/equipment. The funding document will be issued as follows: FY05-10/04; FY06-10/05; FY07-10/06.

\* Not required for Budget Activities 1,2,3, and 6  
 \*\* Required for DON and OSD submit only.

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Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2006</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>			PROGRAM ELEMENT 0603654N/Joint Service EOD Development			PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTD, IH, MD	81.825			2.992	10/04	10.310	10/05	4.895	10/06	Continuing	Continuing	
Software Development	WR	EODTD, IH, MD	3.679			2.200	10/04	5.400	10/05	4.455	10/06	Continuing	Continuing	
ILS	WR	EODTD, IH, MD	37.670			1.400	10/04	0.850	10/05	0.750	10/06	Continuing	Continuing	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Product Development			123.174			6.592		16.560		10.100		0.000	156.426	
Remarks:														
Program Management Support	C/CPFF	EDO, Alexandria, VA	3.460										3.460	
Program Management Support	C/CPFF	EDO, Alexandria, VA	0.345			0.300	10/04	0.600	10/05	0.600	10/06	0.000	1.845	
												Continuing	Continuing	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Support			3.805			0.300		0.600		0.600		0.000	5.305	
Remarks:														

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2006</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
<b>RDT&amp;E, N / BA-4</b>			0603654N/Joint Service EOD Development				0377/Joint Service EOD Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	EODTD, IH, MD	58.147			3.000	10/04	2.200	10/05	1.400	10/06	Continuing	Continuing	N/A
Operational Test & Evaluation	WR	EODTD, IH, MD	8.245							0.538	10/06	Continuing	Continuing	N/A
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal T&E			66.392			3.000		2.200		1.938		0.000	73.530	
Remarks:														
Program Management Support	WR	EODTD, IH, MD	4.520			0.751	10/04	0.600	10/05	0.625	10/06	Continuing	Continuing	N/A
Miscellaneous	Various	Various	4.690			0.979	10/04	3.313	10/05	2.349	10/06	Continuing	Continuing	N/A
													0.000	
													0.000	
													0.000	
Subtotal Management			9.210			1.730		3.913		2.974		Continuing	Continuing	
Remarks:														
Total Cost			202.581			11.622		23.273		15.612		Continuing	Continuing	
Remarks:														

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Exhibit R-2, RDTEN Project Justification  
(Exhibit R-2, page 8 of 46)



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EXHIBIT R-4, RDT&E Project Justification																	DATE:											
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NAME AND NUMBER									PROJECT NAME AND NUMBER														
RDT&E, N/BA-4					JT Service EOD Dev 0603654N									JT Service EOD Systems/0377														
0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems																												
RDT&E Milestone Chart																												
FY 2005					FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
CLASSIFIED PROJECT II																												
Production Decision																												
Production/Deliveries																												
LARGE IED ACCESS & DISRUPTION																												
Testing (DEV)																												
Production Decision (DEV)																												
Production																												

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


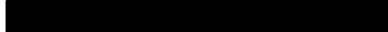



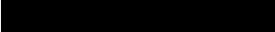
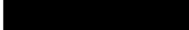
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RDT&E Milestone Chart																													

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		FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
SUBMUNITIONS CLEARANCE																													
Testing (Final)																													
Production Decision																													
Production																													
JLONS																													
Milestone B																													
System Development and Demonstration																													
Milestone C																													
Production and Deployment																													
Block Improvements (DEV)																													

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-4, RDT&E Project Justification																								DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NAME AND NUMBER												PROJECT NAME AND NUMBER															
RDT&E, N/BA-4					JT Service EOD Dev 0603654N												JT Service EOD Systems/0377															
0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems																																
RDT&E Milestone Chart																																
					FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
EOD DECISION SUPPORT SYSTEM																																
Milestone B									▲																							
Development Phase									■																							
Milestone C													▲																			
Production													■																			
Increment I (DEV)													■																			
Increment I (PROD)																					■											
Increment II (DEV)																					■											
Increment II (PROD)																									■							
Increment III (DEV)																									■							

R-1 SHOPPING LIST - Item No. 59

Exhibit R-2, RDTEN Project Justification  
(Exhibit R-2, page 12 of 46)

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-4, RDT&E Project Justification																								DATE: <b>February 2006</b>											
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N/BA-4</b>								PROGRAM ELEMENT NAME AND NUMBER JT Service EOD Dev 0603654N								PROJECT NAME AND NUMBER JT Service EOD Systems/0377																			
<b>0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems</b>  <b>RDT&amp;E Milestone Chart</b>																																			
								FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
								1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>ADVANCED ORDNANCE LOCATOR</b>																																			
Program Initiation																								▲											
Development																								■				■							
Testing																																			

R-1 SHOPPING LIST - Item No. 59

Exhibit R-2, RD TEN Project Justification  
(Exhibit R-2, page 13 of 46)

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-4, RDT&E Project Justification																								DATE:								
																								February 2006								
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NAME AND NUMBER										PROJECT NAME AND NUMBER																	
RDT&E, N/BA-4					JT Service EOD Dev 0603654N										JT Service EOD Systems/0377																	
0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems																																
RDT&E Milestone Chart																																
					FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
JOINT SERVICE IED CM																																
Analysis of Alternatives (AOA)									■																							
Milestone B									▲																							
System Development and Demonstration (LAND)									■				■				■															
Testing (LAND)													■				■															
Milestone C (LAND)																	▲															
System Development and Development (VEHICLE)									■				■				■															
Testing (VEHICLE)																	■				■											
Milestone C																	▲															

R-1 SHOPPING LIST - Item No. 59

Exhibit R-2, RDTEN Project Justification  
(Exhibit R-2, page 14 of 46)

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-4, RDT&E Project Justification																	DATE:												
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NAME AND								PROJECT NAME AND NUMBER											
RDT&E, N/BA-4										JT Service EOD Dev 0603654N								JT Service EOD Systems/0377											
0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems																													
RDT&E Milestone Chart																													

R-1 SHOPPING LIST - Item No. 59

**UNCLASSIFIED**

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 59

**Exhibit R-2, RD TEN Project Justification**  
(Exhibit R-2, page 16 of 46)



CLASSIFICATION:

**UNCLASSIFIED**

Exhibit R-4a, Schedule Detail						DATE:		
						February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N/ BA-4	0603654N/Joint Service EOD Development				0377/Joint Service EOD Systems			
SUBMUNITIONS CLEARANCE		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Testing (Final)		1Q						
Production Decision		4Q						
Production		4Q	1Q-4Q	1Q-4Q				
JLONS								
Milestone B		4Q						
System Development and Demonstration		4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q	
Milestone C							2Q	
Production and Deployment							2Q-4Q	1Q-4Q
Block Improvement (DEV)							4Q	1Q-4Q
EOD DECISION SUPPORT SYSTEM								
Milestone B			1Q					
Development Phase			2Q-4Q	1Q-4Q				
Milestone C				4Q				
Production				4Q	1Q-3Q			
Increment I (DEV)				4Q	1Q-4Q	1Q-4Q		
Increment I (PROD)						4Q	1Q-4Q	1Q
Increment II (DEV)						4Q	1Q-4Q	1Q-3Q
Increment II (PROD)								3Q-4Q
Increment III (DEV)								3Q-4Q

CLASSIFICATION:

**UNCLASSIFIED**

Exhibit R-4a, Schedule Detail						DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/ BA-4	PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems			
ADVANCED ORDNANCE LOCATOR		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Program Initiation						3Q		
Development						3Q-4Q	1Q-4Q	1Q-3Q
Testing								4Q
JOINT SERVICE IED CM								
Analysis of Alternatives (AOA) Study			1Q					
Milestone B			3Q					
System Development and Demonstration (LAND)			3Q-4Q	1Q-4Q	1Q-2Q			
Testing (LAND)				4Q	1Q			
Milestone C (LAND)					3Q			
System Development and Demonstration (VEHICLE)			3Q-4Q	1Q-4Q	1Q-2Q			
Testing (VEHICLE)					1Q-2Q			
Milestone C (VEHICLE)					3Q			
CLASSIFIED III A								
Program Initiation		1Q						
Testing (Preliminary)		3Q-4Q	1Q-2Q					
Interim Progress Review			3Q					
EDM Fabrication			3Q-4Q	1Q-2Q				
Final Testing				2Q-3Q				
Production Decision				3Q				
Production and Deployment				3Q-4Q	1Q-4Q	1Q-2Q		
CLASSIFIED III B								
Milestone B			2Q					
EDM Fabrication			3Q-4Q	1Q-2Q				
Final Testing				3Q-4Q	1Q			
Milestone C					3Q			
Production and Deployment					4Q	1Q-4Q	1Q-2Q	

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 1317/EOD Diving Systems			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		2.431	2.262	2.700	2.753	2.745	2.798	2.853
RDT&E Articles Qty		Various	Various	Various	Various	Various	Various	Various

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Provides for development of diving equipment and explosive charges to support Explosive Ordnance Disposal (EOD) underwater operations. The equipment must have inherently low acoustic and magnetic signatures in order to allow the EOD technician to safely approach, render-safe, and dispose of sea mines and other underwater ordnance.

R-1 SHOPPINPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2006</b>																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 1317/EOD Diving Systems																	
<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 05</td> <td style="width: 15%;">FY 06</td> <td style="width: 15%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>0.680</td> <td>0.360</td> <td>0.561</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td>Various</td> <td>Various</td> <td>Various</td> </tr> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Test and gain Approval for Navy Use (ANU) of EOD diving. Commercial/Non-Developmental Items (C/NDI). Develop and Validate Underwater Breathing Apparatus (UBA) decompression diving tables. </div>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.680	0.360	0.561	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		0.680	0.360	0.561															
RDT&E Articles Quantity		Various	Various	Various															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 05</td> <td style="width: 15%;">FY 06</td> <td style="width: 15%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>0.196</td> <td>0.500</td> <td>0.350</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td>Various</td> <td>Various</td> <td>Various</td> </tr> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Development of Advanced Underwater Limpet Mine equipment to enhance EOD units' ability to detect, neutralize, and gather intelligence on underwater limpet and special attached mines. Develop a Diver Amphibious Neutralization System (DANS) for below and above water neutralization of mines to support EOD &amp; NSCT-1 Neutralization missions. </div>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.196	0.500	0.350	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		0.196	0.500	0.350															
RDT&E Articles Quantity		Various	Various	Various															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 05</td> <td style="width: 15%;">FY 06</td> <td style="width: 15%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>0.000</td> <td>0.250</td> <td>0.250</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td>Various</td> <td>Various</td> <td>Various</td> </tr> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Develop technology refresh improvements to the Underwater Imaging System (UIS), and Acoustic Firing System (AFS). </div>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.000	0.250	0.250	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		0.000	0.250	0.250															
RDT&E Articles Quantity		Various	Various	Various															

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2006</b>																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 1317/EOD Diving Systems																	
<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 20%; text-align: center;">FY 05</td><td style="width: 20%; text-align: center;">FY 06</td><td style="width: 10%; text-align: center;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center;">1.555</td><td style="text-align: center;">1.152</td><td style="text-align: center;">1.539</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></table>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		1.555	1.152	1.539	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		1.555	1.152	1.539															
RDT&E Articles Quantity		Various	Various	Various															
<div style="border: 1px solid black; min-height: 60px; margin-top: 10px;"></div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 20%; text-align: center;">FY 05</td><td style="width: 20%; text-align: center;">FY 06</td><td style="width: 10%; text-align: center;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></table>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.000	0.000	0.000	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		0.000	0.000	0.000															
RDT&E Articles Quantity		Various	Various	Various															
<div style="border: 1px solid black; min-height: 60px; margin-top: 10px;"></div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 20%; text-align: center;">FY 05</td><td style="width: 20%; text-align: center;">FY 06</td><td style="width: 10%; text-align: center;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></table>							FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.000	0.000	0.000	RDT&E Articles Quantity		Various	Various	Various
		FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		0.000	0.000	0.000															
RDT&E Articles Quantity		Various	Various	Various															
<div style="border: 1px solid black; min-height: 60px; margin-top: 10px;"></div>																			

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2006</b>																																
APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 1317/EOD Diving Systems																																
<p><b>(U) C. PROGRAM CHANGE SUMMARY:</b></p> <table><tr><td>(U) Funding:</td><td>FY 2005</td><td>FY 2006</td><td>FY 2007</td></tr><tr><td>Previous President's Budget (FY06 Pres Controls)</td><td>2.400</td><td>2.296</td><td>2.764</td></tr><tr><td>Current BES/President's Budget (FY07 Pres Controls)</td><td>2.431</td><td>2.262</td><td>2.700</td></tr><tr><td>Total Adjustments</td><td>0.031</td><td>-0.034</td><td>-0.064</td></tr><tr><td>Summary of Adjustments</td><td></td><td></td><td></td></tr><tr><td>    Programmatic Changes</td><td></td><td></td><td>-0.064</td></tr><tr><td>    Other General Provisions</td><td>0.031</td><td>-0.034</td><td></td></tr><tr><td>    Subtotal</td><td>0.031</td><td>-0.034</td><td>-0.064</td></tr></table> <p>(U) Schedule:</p> <p>    Limpet Mine Neutralization production decision moved from FY05 3rd QTR to 4th QTR FY05 to accommodate additional effectiveness testing.</p> <p>(U) Technical:</p> <p>    Not applicable</p>			(U) Funding:	FY 2005	FY 2006	FY 2007	Previous President's Budget (FY06 Pres Controls)	2.400	2.296	2.764	Current BES/President's Budget (FY07 Pres Controls)	2.431	2.262	2.700	Total Adjustments	0.031	-0.034	-0.064	Summary of Adjustments				Programmatic Changes			-0.064	Other General Provisions	0.031	-0.034		Subtotal	0.031	-0.034	-0.064
(U) Funding:	FY 2005	FY 2006	FY 2007																															
Previous President's Budget (FY06 Pres Controls)	2.400	2.296	2.764																															
Current BES/President's Budget (FY07 Pres Controls)	2.431	2.262	2.700																															
Total Adjustments	0.031	-0.034	-0.064																															
Summary of Adjustments																																		
Programmatic Changes			-0.064																															
Other General Provisions	0.031	-0.034																																
Subtotal	0.031	-0.034	-0.064																															

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development		PROJECT NUMBER AND NAME 1317/EOD Diving Systems			

**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN 0975	3309	6306	4583						
PANMC 0340			1896						

**(U) E. ACQUISITION STRATEGY: \***

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

**(U) F. MAJOR PERFORMERS: \*\***

The majority of funding in this line is executed by Naval Explosive Ordnance Disposal Technology Division located in Indian Head, MD in FY05 through FY07. The funding is used for development of Underwater EOD tools/equipment. The funding document will be issued as follows: FY06- 10/05, FY07-10/06, FY08-10/07.

\* Not required for Budget Activities 1,2,3, and 6  
\*\* Required for DON and OSD submit only.

R-1 SHOPPING LIST - Item No. 59

CLASSIFICATION:

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Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2006</b>					
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-4</b>				PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 1317/EOD Diving Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	WX	EODTD, IH, MD	33.862			1.424	10/04	0.441	10/05	0.800	10/06	Continuing	Continuing		
Software Development	WX	EODTD, IH, MD	1.791			0.147	10/04	0.254	10/05	0.500	10/06	Continuing	Continuing		
Systems Engineering	WX	EODTD, IH, MD	8.105			0.123	10/04					Continuing	Continuing		
ILS	WX	EODTD, IH, MD	11.867			0.049	10/04					Continuing	Continuing		
Systems Engineering	WX	NSWC, PC						0.190	10/05	0.190	10/06	Continuing	Continuing		
Systems Engineering	WX	SPAWAR						0.400	10/05	0.200	10/06	Continuing	Continuing		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal Product Development			55.625			1.743		1.285		1.690		0.000	60.343		
Remarks:															
Program Management Support	C/CPFF	EDO, Alex, VA	3.537									0.000	3.537		
Program Management Support	C/CPFF	EDO, Alex, VA	0.500			0.123	10/04	0.350	10/05	0.258	10/06	Continuing	Continuing		
Integrated Logistics Support													0.000		
Configuration Management													0.000		
Technical Data													0.000		
GFE													0.000		
Award Fees													0.000		
Subtotal Support			4.037			0.123		0.350		0.258		0.000	4.768		
Remarks:															



CLASSIFICATION:

**UNCLASSIFIED**

Exhibit R-3 Cost Analysis (page 2)										DATE:		DATE: <b>February 2006</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>				PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 1317/EOD Diving Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WX	EODTD, IH, MD	4.020			0.147	10/04	0.050	10/05	0.050	10/06	Continuing	Continuing		
Operational Test & Evaluation	WX	EODTD, IH, MD	1.560										1.560		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal T&E			5.580			0.147		0.050		0.050		0.000	5.827		
Remarks:															
Program Management Support	WX	EODTD, IH, MD	6.917			0.221	10/04	0.275	10/05	0.360	10/06	Continuing	Continuing		
Miscellaneous	WX	Various	5.731			0.197	10/04	0.302	10/05	0.342	10/06	Continuing	Continuing		
													0.000		
													0.000		
													0.000		
Subtotal Management			12.648			0.418		0.577		0.702		0.000	14.345		
Remarks:															
Total Cost			77.890			2.431		2.262		2.700		0.000	85.283		
Remarks:															

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-4, Schedule Profile

DATE:

**February 2006**

APPROPRIATION/BUDGET ACTIVITY

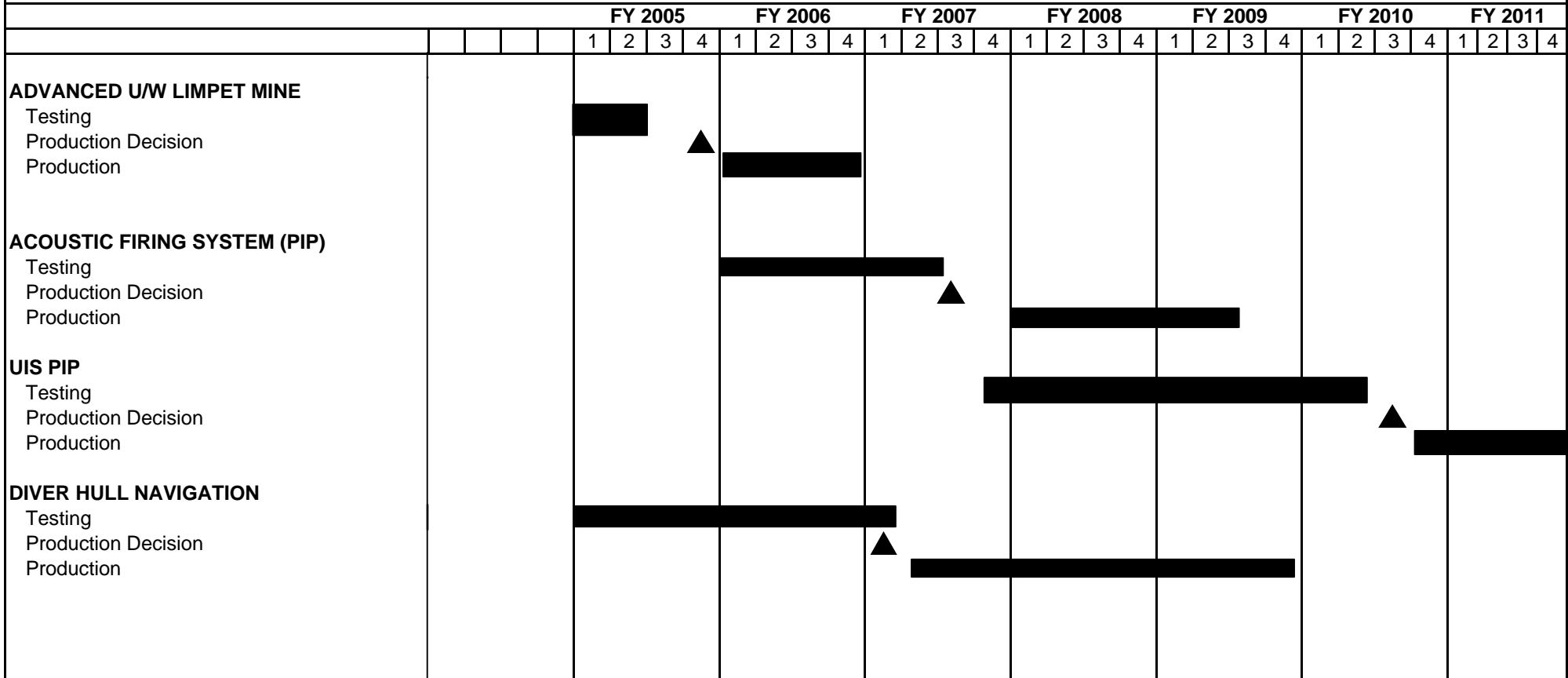
**RDTE&E, N/BA-4**

PROGRAM ELEMENT NAME AND NUMBER

**JT Service EOD Dev 0603654N**

PROJECT NAME AND NUMBER

1317/EOD Diving Systems

**0603654N Joint Service EOD Development; 1317 EOD Diving Systems****RDTE&E Milestone Chart**

R-1 SHOPPING LIST - Item No. 59

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-4, Schedule Profile																DATE: February 2006															
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NAME AND								PROJECT NAME AND NUMBER																			
RDT&E, N/BA-4				JT Service EOD Dev 0603654N								1317/EOD Diving Systems																			
0603654N Joint Service EOD Development; 1317 EOD Diving Systems																															
RDT&E Milestone Chart																															
				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NEW U/W Breathing Apparatus (NUBA) Testing Production Decision Production																															
DIVER AMPHIBIOUS NEUTRALIZATION SYSTEM Testing Production Decision Production																															

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N/ BA-4	0603654/Joint Service EOD Development				1317/EOD Diving Systems			
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
ADVANCED U/W LIMPET MINE								
Testing		1Q-2Q						
Production Decision		4Q						
Production			1Q-4Q					
ACOUSTIC FIRING SYSTEM (PIP)								
Testing			1Q-4Q	1Q-2Q				
Production Decision				3Q				
Production					1Q-4Q	1Q-3Q		
UIS PIP								
Testing				4Q	1Q-4Q	1Q-4Q	1Q-2Q	
Production Decision							3Q	
Production							4Q	1Q-4Q
DIVER HULL NAVIGATION								
Testing		1Q-4Q	1Q-4Q	1Q				
Production Decision				1Q-2Q				
Production				2Q-4Q	1Q-4Q	1Q-4Q		

R-1 SHOPPING LIST - Item No. 59

Exhibit R-2, RD TEN Project Justification  
(Exhibit R-2, page 28 of 46)

**UNCLASSIFIED**

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 59

**Exhibit R-2, RD TEN Project Justification**  
(Exhibit R-2, page 29 of 46)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		<sup>*</sup> 9.681	8.363	6.155	5.389	4.630	4.039	4.116
RDT&E Articles Qty		Various	Various	Various	Various	Various	Various	Various

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Provides for development of small affordable, Unmanned Underwater Systems to support Explosive Ordnance Disposal (EOD) and Naval Special Clearance Team mission operations. The equipment must be highly portable in order to support the EOD technician to safely approach, render-safe, and dispose of sea mines and other underwater ordnance. Provides support for the Navy's high priority mission of Very Shallow Water (VSW) mine countermeasures, including clandestine reconnaissance and mine clearance in support of amphibious operations. Development of EOD UUV systems to support localization render-safe and detailed intelligence gathering of UXO including Underwater Improvised Explosive Devices.

\* Includes a \$3.4M Congressional Add for Magneto-Inductive Technology

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2006</b>													
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV														
<b>(U) B. Accomplishments/Planned Program</b>																
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%; text-align: center;">FY 05</th><th style="width: 25%; text-align: center;">FY 06</th><th style="width: 25%; text-align: center;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">6.281</td><td style="text-align: center;">8.363</td><td style="text-align: center;">6.155</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></tbody></table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"><p>This program supports development, testing and Fleet approval for evolving generations of small, affordable UUV's to address validated Fleet requirements in support of Explosive Ordnance Disposal and Naval Special Clearance team missions areas.</p><p>*Starting in FY05 effort was moved from Program Element 0603654N, Project Q1317.</p></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	6.281	8.363	6.155	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	6.281	8.363	6.155													
RDT&E Articles Quantity	Various	Various	Various													
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%; text-align: center;">FY 05</th><th style="width: 25%; text-align: center;">FY 06</th><th style="width: 25%; text-align: center;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">3.400</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></tbody></table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"><p>This Program supports development, testing and fleet approval for Magneto-Inductive technology used to transmit commands to remotely placed receivers that are connected to explosive mission packages and tools associated with Naval Special Clearance Team missions in the Very Shallow Water zone.</p></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	3.400	0.000	0.000	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	3.400	0.000	0.000													
RDT&E Articles Quantity	Various	Various	Various													
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%; text-align: center;">FY 05</th><th style="width: 25%; text-align: center;">FY 06</th><th style="width: 25%; text-align: center;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td><td style="text-align: center;">Various</td></tr></tbody></table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000													
RDT&E Articles Quantity	Various	Various	Various													

R-1 SHOPPING LIST - Item No. 59

**UNCLASSIFIED**

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV	
<b>(U) C. PROGRAM CHANGE SUMMARY:</b>			
(U) Funding:	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY06 Pres Controls)	9.796	8.491	6.240
Current BES/President's Budget (FY07 Pres Controls)	9.681	8.363	6.155
Total Adjustments	-0.115	-0.128	-0.085
Summary of Adjustments			
Programmatic Changes			-0.085
Other General Provisions	-0.115	-0.128	
Subtotal	-0.115	-0.128	-0.085
 (U) Schedule:			
<p>As a result of non-availability of Fleet operator to participate in Requirements Compliance Test &amp; Evaluation (RCT&amp;E) 1st generation small UUV (SCM) production decision and contract award adjusted from 2nd QTR FY05 to 4th QTR FY05. The 2nd generation UUV re-acquire &amp; ID prototype development adjusted from 1st QTR FY05 to 3rd QTR FY05 due to prototype system sensor enhancement requirements. The 3rd generation UUV Neutralization adjusted from 1st QTR FY06 to 3rd QTR FY06 due to additional development requirements. Magneto-Inductive prototype development adjusted from 1st QTR FY05 to 3rd QTR FY05 due to contract negotiations relating to data rights.</p>			
 (U) Technical:			
Not applicable			



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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development		PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV			

**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
OPN 0975	2305	4069	11540						

**(U) E. ACQUISITION STRATEGY: \***

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisitions strategies of the most cost-effective solution over the subprojects' life -cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modifications), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&E, if required is always competitive and when feasible, production options are included. This ongoing program capitalizes on a User Operational Evaluation System (UOES) effort involving Fleet operators engaged in tactical experimentation with prototype UUVs. These UUV operators also participate in detailed requirements analyses and definition. A preliminary operational capability with UUV will be realized at the Naval Special Clearance Team One (NSCT-1), with a competitive acquisition strategy to field a more robust and capable first generation S-C-M system. The addition of mine Reacquisition and Identification (RI) capabilities to the VSW MCM UUV toolbox is programmed, for delivery. Further improvements to the toolbox to add basic mine neutralization capabilities will then be pursued. EOD UUV systems providing capability to localize, Render Safe & gather detailed intelligence of UXO is programmed for acquisition.

**(U) F. MAJOR PERFORMERS: \*\***

The majority of funding in this line is executed by Naval Explosive Ordnance Disposal Technology Division located in Indian Head, MD FY05 through FY07. The funding is used for development of Unmanned Underwater Vehicle(s). The funding document will be issued as follows: FY05- 10/04, FY06-10/05, FY07-10/06.

\* Not required for Budget Activities 1,2,3, and 6  
 \*\* Required for DON and OSD submit only.

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

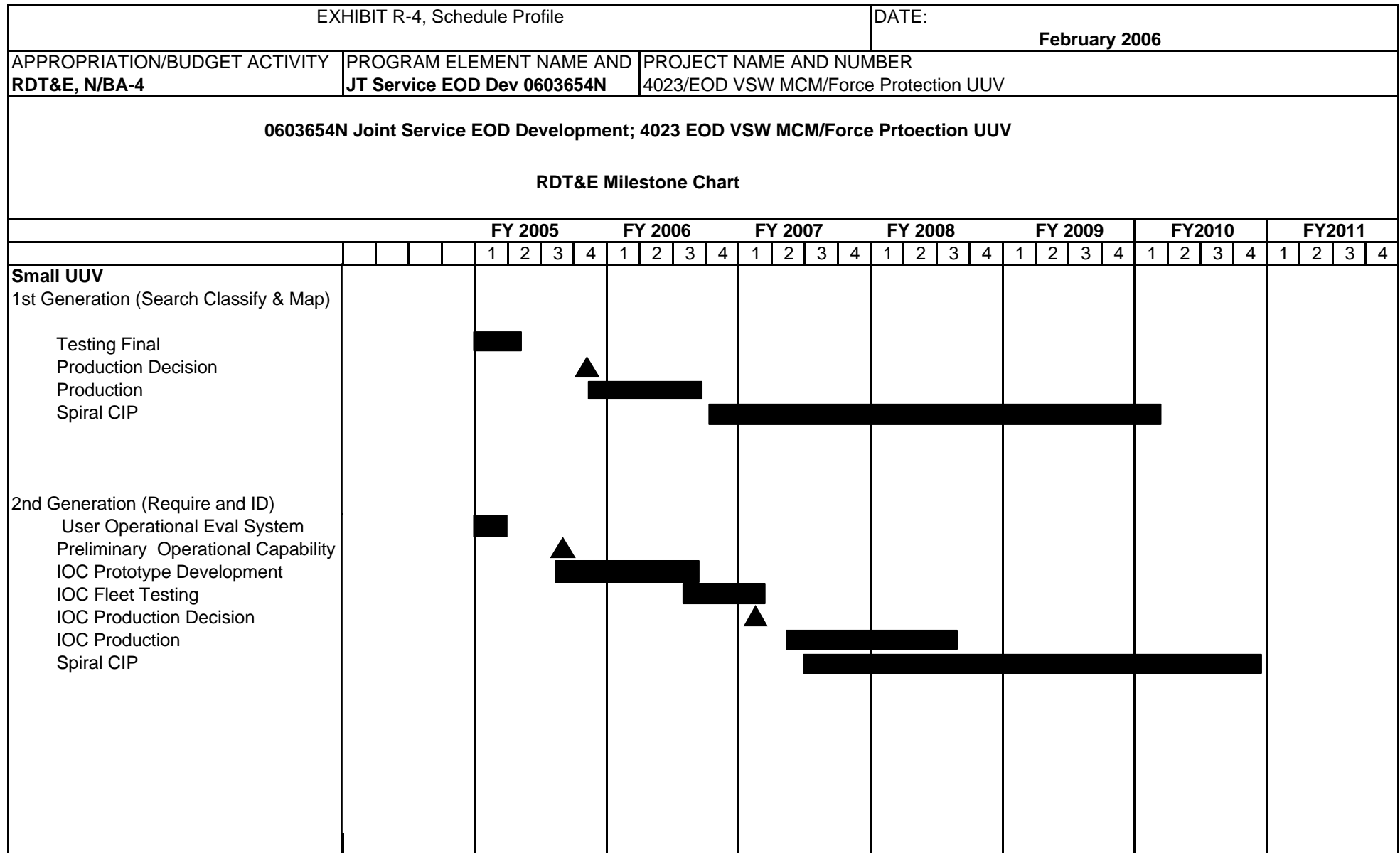
Exhibit R-3 Cost Analysis (page 1)											DATE: <b>February 2006</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>			PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	WX	EODTD, IH, MD	3.843			3.372	10/04	2.812	10/05	1.913	10/06	Continuing	Continuing		
Systems Engineering	WX	EODTD, IH, MD	0.000			3.169	10/04	2.849	10/05	1.970	10/06	Continuing	Continuing		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal Product Development			3.843			6.541		5.661		3.883		0.000	19.928		
Remarks:															
Program Management Support	C/CPFF	EDO, Alex, VA	0.000			0.650	10/04	0.712	10/05	0.616	10/06	Continuing	Continuing		
Program Management Support	C/CPFF	EDO, Panama City FL	0.000									Continuing	Continuing		
Training Development													0.000		
Integrated Logistics Support													0.000		
Configuration Management													0.000		
Technical Data													0.000		
GFE													0.000		
Award Fees													0.000		
Subtotal Support			0.000			0.650		0.712		0.616		0.000	1.978		
Remarks:															

# UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)												DATE: <b>February 2006</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>				PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WX	EODTD, IH, MD	0.000			1.710	10/04	1.180	10/05	0.986	10/06	Continuing	Continuing		
Operational Test & Evaluation	WX	EODTD, IH, MD	0.000			0.290	10/04	0.290	10/05	0.252	10/06	Continuing	Continuing		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal T&E			0.000			2.000		1.470		1.238		0.000	4.708		
Remarks:															
Program Management Support	WX	EODTD, IH, MD	0.000			0.490	10/04	0.370	10/05	0.310	10/06	Continuing	Continuing		
Miscellaneous	WX	Various	0.678					0.150	10/05	0.108	10/06	Continuing	Continuing		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal Management			0.678			0.490		0.520		0.418		0.000	2.106		
Remarks:															
Total Cost			4.521			9.681		8.363		6.155		0.000	28.720		
Remarks:															

CLASSIFICATION:

**UNCLASSIFIED**

R-1 SHOPPING LIST - Item No. 59

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-4, Schedule Profile																DATE: February 2006															
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NAME AND NUMBER								PROJECT NAME AND NUMBER																		
RDT&E, N/BA-4					JT Service EOD Dev 0603654N								4023/EOD VSW MCM/Force Protection UUV																		
0603654N Joint Service EOD Development; 4023/EOD VSW MCM/Force Protection UUV																															
RDT&E Milestone Chart																															

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N/ BA-4	0603654/Joint Service EOD Development				4023/EOD VSW MCM/Force Protection UUV			
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1st Generation Small UUV (Search, Classify & Map)								
Testing Final		1Q-2Q						
Production Decision		4Q						
Production		4Q	1Q-3Q					
Spiral CIP			4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q	
2nd Generation (Require and ID)								
UOES Operational Eval System		1Q						
Preliminary Operational Capability		3Q						
IOC Prototype Development		2Q-4Q	1Q-3Q					
IOC Testing			3Q-4Q	1Q				
IOC Production Decision				1Q				
IOC Production				2Q-4Q	1Q-3Q			
Spiral CIP				3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
3rd Generation (Neutralization)								
Analysis of Alternatives (AOA)		1Q-2Q						
Requirmentments Definition		1Q-4Q	1Q-3Q					
UOES Operational Eval System			3Q-4Q	1Q-4Q	1Q-3Q			
Testing Final					3Q-4Q	1Q		
Production Decision (1st Generation)						2Q		
Preliminary Operational Capability						3Q		
Production						3Q-4Q	1Q-4Q	
Spiral CIP							1Q-4Q	1Q-4Q
Magneto-Inductive								
Requirements Definition		1Q-3Q						
Protoype Development		3Q-4Q	1Q-4Q	1Q-4Q	1Q			
Final Testing					1Q-3Q			
Production Decision					3Q			
IOC Production						1Q-4Q	1Q-3Q	
Spiral CIP							2Q-4Q	1Q-4Q

R-1 SHOPPING LIST - Item No. 59

Exhibit R-2, RD TEN Project Justification  
(Exhibit R-2, page 38 of 46)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 4024/SMCM Shallow and Deep Water UUV			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		1.777	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty		Various	Various	Various	Various	Various	Various	Various
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> Provides for development of Small Low Cost Unmanned Underwater Vehicles to support dedicated mine countermeasures operations. The UUV systems must have a small deployment footprint for rapid employment aboard various SMCM platforms. Equipment includes Launch Recovery Sub-Systems and associated systems support equipment.								

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2006</b>													
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 4024/SMCM Shallow and Deep Water UUV														
<b>(U) B. Accomplishments/Planned Program</b>																
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%;">FY 05</th><th style="width: 25%;">FY 06</th><th style="width: 25%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>1.777</td><td>0.000</td><td>0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td>Various</td><td>Various</td><td>Various</td></tr></tbody></table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"><p>Demonstrate operation of a UUV-based capability package for standoff, multiple MCM operations from surface MCM platforms (e.g., MHC, HSV, etc.)</p><p>*Starting in FY06 effort executed in Program Element 0603502N, Surface and Shallow Water MCM; Project 3123, SMCM UUV.</p></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	1.777	0.000	0.000	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	1.777	0.000	0.000													
RDT&E Articles Quantity	Various	Various	Various													
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%;">FY 05</th><th style="width: 25%;">FY 06</th><th style="width: 25%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td>Various</td><td>Various</td><td>Various</td></tr></tbody></table> <div style="border: 1px solid black; height: 70px; margin-top: 10px;"></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000													
RDT&E Articles Quantity	Various	Various	Various													
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 25%;">FY 05</th><th style="width: 25%;">FY 06</th><th style="width: 25%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td>Various</td><td>Various</td><td>Various</td></tr></tbody></table> <div style="border: 1px solid black; height: 70px; margin-top: 10px;"></div>						FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	RDT&E Articles Quantity	Various	Various	Various
	FY 05	FY 06	FY 07													
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000													
RDT&E Articles Quantity	Various	Various	Various													

R-1 SHOPPING LIST - Item No. 59



# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2006</b>																												
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 4024/SMCM Shallow and Deep Water UUV																												
<p><b>(U) C. PROGRAM CHANGE SUMMARY:</b></p> <table><tr><td>(U) Funding:</td><td>FY 2005</td><td>FY 2006</td><td>FY 2007</td></tr><tr><td>Previous President's Budget (FY06 Pres Controls)</td><td>1.778</td><td>0.000</td><td>0.000</td></tr><tr><td>Current BES/President's Budget (FY07 Pres Controls)</td><td>1.777</td><td>0.000</td><td>0.000</td></tr><tr><td>Total Adjustments</td><td>-0.001</td><td>0.000</td><td>0.000</td></tr><tr><td>Summary of Adjustments</td><td></td><td></td><td></td></tr><tr><td>    Other General Provisions</td><td>-0.001</td><td>0.000</td><td>0.000</td></tr><tr><td>Subtotal</td><td>-0.001</td><td>0.000</td><td>0.000</td></tr></table> <p>(U) Schedule:</p> <p>Not applicable</p> <p>(U) Technical:</p> <p>Not applicable.</p>			(U) Funding:	FY 2005	FY 2006	FY 2007	Previous President's Budget (FY06 Pres Controls)	1.778	0.000	0.000	Current BES/President's Budget (FY07 Pres Controls)	1.777	0.000	0.000	Total Adjustments	-0.001	0.000	0.000	Summary of Adjustments				Other General Provisions	-0.001	0.000	0.000	Subtotal	-0.001	0.000	0.000
(U) Funding:	FY 2005	FY 2006	FY 2007																											
Previous President's Budget (FY06 Pres Controls)	1.778	0.000	0.000																											
Current BES/President's Budget (FY07 Pres Controls)	1.777	0.000	0.000																											
Total Adjustments	-0.001	0.000	0.000																											
Summary of Adjustments																														
Other General Provisions	-0.001	0.000	0.000																											
Subtotal	-0.001	0.000	0.000																											

R-1 SHOPPING LIST - Item No. 59

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development		PROJECT NUMBER AND NAME 4024/SMCM Shallow and Deep Water UUV			

**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
<p><b>(U) E. ACQUISITION STRATEGY: *</b></p> <p>Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new projects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&amp;E, if required, is always competitive and when feasible, production options are included.</p> <p>The Surface Mine Countermeasures (SMCM) UUV program began in FY04 with a two-year experimentation phase involving Fleet Mine Warfare operators engaged in tactical experimentation with prototype UUVs operating from Surface MCM platforms. The focus of this program is to increase the current capabilities of Surface MCM ships while reducing the overall risk to MCM forces. During this two-year initiative, these UUV Fleet operators will develop tactics for employing UUV systems from SMCM platforms along with operational requirements. Upon completion of the two-year experimentation phase, a competitive acquisition strategy will begin to field a more capable and robust first generation system.</p> <p style="margin-top: 20px;">The majority of funding in this line is executed by Naval Explosive Ordnance Disposal Technology Division located in Indian Head, MD in FY05. The funding is used to develop an Unmanned Underwater Vehicle. The funding document has been issued as follows: FY05 10/04.</p>									

\* Not required for Budget Activities 1,2,3, and 6

\*\* Required for DON and OSD submit only.

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# UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: <b>February 2006</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>			PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 4024/SMCM Shallow and Deep Water UUV								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	WX	EODTD, IH, MD	0.000			1.512	10/04					Continuing	Continuing		
Software Development													0.000		
Systems Engineering													0.000		
ILS													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal Product Development			0.000			1.512		0.000		0.000		0.000	1.512		
Remarks:															
Program Management Support	C/CFF	EDO, Alex, VA	0.000									Continuing	Continuing		
Program Management Support													0.000		
Training Development													0.000		
Integrated Logistics Support													0.000		
Configuration Management													0.000		
Technical Data													0.000		
GFE													0.000		
Award Fees													0.000		
Subtotal Support			0.000			0.000		0.000		0.000		0.000	0.000		
Remarks:															

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Exhibit R-2, RD TEN Project Justification  
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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)											DATE: <b>February 2006</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-4</b>			0603654N/Joint Service EOD Development				4024/SMCM Shallow and Deep Water UUV								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WX	EODTD, IH, MD	0.000									Continuing	Continuing		
Operational Test & Evaluation	WX												0.000		
													0.000		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal T&E			0.000			0.000		0.000		0.000		0.000	0.000		
Remarks:															
Program Management Support	WX	EODTD, IH, MD	0.000			0.265	10/04					Continuing	Continuing		
Miscellaneous	WX	Various										Continuing	Continuing		
													0.000		
													0.000		
													0.000		
													0.000		
Subtotal Management			0.000			0.265		0.000		0.000		0.000	0.265		
Remarks:															
Total Cost			0.000			1.777		0.000		0.000		0.000	1.777		
Remarks:															

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-4, Schedule Profile																DATE:																			
																February 2006																			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NAME AND								PROJECT NAME AND NUMBER																							
RDT&E, N/BA-4				JT Service EOD Dev 0603654N								4024/SMCM Shallow and Deep Water UUV																							
0603654N Joint Service EOD Development; 4024 SMCM Shallow and Deept Water UUV																																			
RDT&E Milestone Chart																																			
				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011							
								1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SMCM Shallow & Deep Water UUV								██████████																											
Notional CONOPS (AOA) Study																																			
Requirements Definition								██████████																											

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**CLASSIFICATION:**

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**Exhibit R-2, RD TEN Project Justification**  
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