

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification									DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4						R-1 ITEM NOMENCLATURE 0603654N/Joint Service EOD Development					
COST (\$ in Millions)	Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Total PE Cost		33.924	24.315	83.361	114.986	93.609	77.502	78.961	76.939	Continuing	Continuing
0377/Joint Service EOD Systems		23.291	15.025	14.967	11.739	13.365	12.787	11.543	11.808	Continuing	Continuing
1317/EOD Diving System		2.263	2.690	2.770	2.767	3.294	3.503	2.929	2.985	Continuing	Continuing
3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)		0.000	0.468	61.392	96.896	69.920	55.259	57.842	58.755	Continuing	Continuing
4023/VSW MCM/ Force Protection UUV		8.370	6.132	4.232	3.584	7.030	5.953	6.647	3.391	Continuing	Continuing
Quantity of RDT&E Articles		Various	Various	Various	Various	Various	Various	Various	Various		Various
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:											
<p>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. This program also provides force protection of all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated single manager for Joint Counter RCIED Electronic Warfare (JCREW), requiring RDT&E to develop capabilities that meet joint requirements.</p>											

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4		R-1 ITEM NOMENCLATURE 0603654N/Joint Service EOD Development		
(U) B. PROGRAM CHANGE SUMMARY:				
(U) Funding:	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY07 Pres Controls)	33.898	24.467	25.832	24.881
Current BES/President's Budget (FY08 Pres Controls)	33.924	24.315	83.361	114.986
Total Adjustments	0.026	-0.152	57.529	90.105
Summary of Adjustments				
Congressional Undistributed Reduction	0.026	-0.152	0.000	0.000
Program Adjustments	0.000	0.000	57.529	90.105
Subtotal	0.026	-0.152	57.529	90.105
 (U) Schedule:				
<p>Joint Service EOD Systems: OPNAV and the Joint Service EOD Program Board directed that the JLONS program enter a Concept Refinement/Technology Development phase to reduce programmatic and technical risk. The JLONS program schedule is adjusted accordingly. Due the evolving IED threat faced by Joint Service EOD technicians, the Transmitter, Countermeasure (TCM) AN/PLT-XXX (formerly Classified III) acquisition strategy has incorporated a block upgrade to insert capabilities to counter the emerging IED threats. The joint requirements for the EOD Decision Support System (DSS) have been established by the users from all four Services, the resulting CDD is currently in the Joint Capabilities and Integration Development Systems (JCIDS) process, and the schedule has been revised to reflect these requirements. Joint Service IED Countermeasures (JS IED CM) program moved to Project 3177 beginning in FY07.</p>				
<p>EOD Diving System: Underwater Imaging System (UIS PIP) production decision moved from 3rd QTR FY10 to 4th QTR FY10. Supports Continuous Improvement program through 4th QTR FY13. Diver Hull Inspection Navigational System production decision moved from 2nd QTR FY07 to 4th QTR FY07 to support additional suitability and effectiveness testing. An increased production quantities from 119 systems to 154 systems extends production cycle to 4th QTR FY13. Supports Continuous Improvement program through 4th QTR FY13. Diver A independent study of Analysis of Alternatives determined the best option to provide a Diver Amphibious Neutralization system (DANS) capability to the fleet would be a second spiral to Acoustic Firing System (AFS PIP). DANS changed to Acoustic Firing Radio Frequency PIP. The production for Acoustic Firing System Radio Frequency has continued from 4th QTY FY08 to 1st QTR FY09, due to an Indefinite Delivery, Indefinite Quantity (IDIQ), contract for multiple year productions to support expendable end items.</p>				

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	23.291	15.025	14.967	11.739				
RDT&E Articles Qty	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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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems

(U) B. Accomplishments/Planned Program

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	8.287	7.663	7.950	6.239
RDT&E Articles Quantity	Various	Various	Various	Various

Develop Joint Service EOD systems to detect, identify and provide knowledge management for UXO and IED threats. Systems include EOD Decision Support System (EOD DSS) and EOD Future Radiographic System (FRS). Also, conduct Analysis of Alternatives studies and conduct evaluations of Commercial/Non-Developmental Items (C/NDI EOD tools/equipment).

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.342	4.601	3.967	4.000
RDT&E Articles Quantity	Various	Various	Various	Various

Develop Joint Service EOD systems to access, disrupt and neutralize UXO and IED threats. Systems include the Joint Laser Ordnance Neutralization System (JLONS), Electronic Safe/Arm Fuze (ESAF)-IED and Improved Remote Fuze Disassembly Kit, and the Disposable Firing System. Also, conduct Analysis of Alternatives studies and conduct evaluations of Commercial/Non-Developmental Item (C/NDI) EOD tools/equipment.

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.594	0.578	0.500	0.500
RDT&E Articles Quantity	Various	Various	Various	Various

Develop Joint Service EOD Robotic Systems including the EOD Man Transportable Robotics System (MTRS) project. Also conduct improvement programs to EOD Robotic Systems.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems

(U) B. Accomplishments/Planned Program

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.500	2.183	2.550	1.000
RDT&E Articles Quantity	Various	Various	Various	Various

Develop Joint Service EOD systems to counter current and emerging IED threats. Systems include Transmitter Countermeasures (TCM), AN/PLT-XXX (formerly know as Classified III). Also conduct continuous improvement programs to counter evolving IED threats.

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	9.568	0.000	0.000	0.000
RDT&E Articles Quantity	Various	Various	Various	Various

Develop Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW) systems (formerly Joint Service Improvised Explosive Device Countermeasures (JS IED CM). Moves to project 3177 beginning in FY07.

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EXHIBIT R-2a, RDT&E Project Justification							DATE:			
							February 2007			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME					
RDT&E, N / BA-4		0603654N/Joint Service EOD Development			0377/Joint Service EOD Systems					
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN 5509	12496	13202	6209	2800						
(Funds listed in section D. are only for cost code VN075, EOD Equipment/Systems.)										
(U) D. ACQUISITION STRATEGY: *										
<p>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.</p>										

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				0377/Joint Service EOD Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTD, IH, MD	84.817	10.310	10/05	4.425	10/06	6.500	10/07	4.642	10/08	Continuing	Continuing	
Software Development	WR	EODTD, IH, MD	5.879	5.400	10/05	4.455	10/06	1.736	10/07	1.200	10/08	Continuing	Continuing	
ILS	WR	EODTD, IH, MD	39.070	0.850	10/05	0.750	10/06	1.250	10/07	1.000	10/08	Continuing	Continuing	
Subtotal Product Development			129.766	16.560		9.630		9.486		6.842		0.000	172.284	
Remarks:														
Program Management Support	C/CPFF	EDO, Alexandria, VA	3.460										3.460	
Program Management Support	C/CPFF	EDO, Alexandria, VA	0.645	0.600	10/05	0.600	10/06	0.650	10/07	0.500	10/08	Continuing	Continuing	
Subtotal Support			4.105	0.600		0.600		0.650		0.500		0.000	6.455	
Remarks:														

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-4			0603654N/Joint Service EOD Developme			0377/Joint Service EOD Systems								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	EODTD, IH, MD	61.147	2.200	10/05	1.400	10/06	1.500	10/07	1.800	10/08	Continuing	Continuing	N/A
Operational Test & Evaluation	WR	EODTD, IH, MD	8.245			0.538	10/06	0.550	10/07	0.200	10/08	Continuing	Continuing	N/A
Subtotal T&E			69.392	2.200		1.938		2.050		2.000		0.000	77.580	
Remarks:														
Program Management Support	WR	EODTD, IH, MD	5.271	0.600	10/05	0.625	10/06	0.650	10/07	0.650	10/08	Continuing	Continuing	N/A
Miscellaneous	Various	Various	5.669	3.331	10/05	2.232	10/06	2.131	10/07	1.747	10/08	Continuing	Continuing	N/A
Subtotal Management			10.940	3.931		2.857		2.781		2.397		Continuing	Continuing	
Remarks:														
Total Cost			214.203	23.291		15.025		14.967		11.739		Continuing	Continuing	
Remarks:														

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EXHIBIT R-4, RDT&E Project Justification																	DATE:				February 2007											
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4					PROGRAM ELEMENT NAME AND JT Service EOD Dev 0603654N					PROJECT NAME AND NUMBER JT Service EOD Systems/0377																						
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems																																
RDT&E Milestone Chart																																
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
EOD MAN TRANSPORTABLE ROBOTIC SYSTEM																																
Production Decision (3QTR FY05)																																
Production																																
Block Upgrade (DEV)																																
Block Upgrade (PROD)																																

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APPROPRIATION/BUDGET ACTIVITY																	DATE:														
RDT&E, N/BA-4					PROGRAM ELEMENT NAME AND					PROJECT NAME AND NUMBER																					
					JT Service EOD Dev 0603654N					JT Service EOD Systems/0377																					
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems RDT&E Milestone Chart																															
FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
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	1	2	3	4
JLONS																															
Technology Development																															
Milestone B																															
System Development & Demonstration																															
Milestone C																															
Production																															

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4						PROGRAM ELEMENT NAME AND NUMBER JT Service EOD Dev 0603654N						PROJECT NAME AND NUMBER JT Service EOD Systems/0377																																								
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems																																																				
RDT&E Milestone Chart																																																				
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013																							
	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	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)																																																				

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EXHIBIT R-4, RDT&E Project Justification																				DATE: February 2007												
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4					PROGRAM ELEMENT NAME AND NUMBER JT Service EOD Dev 0603654N					PROJECT NAME AND NUMBER JT Service EOD Systems/0377																						
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems																																
RDT&E Milestone Chart																																
FY 2006					FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
ELECTRONIC SAFE/ARM FUZE - IED																																
Program Initiation																																
Development									█																							
Testing													█																			
Interim Progress Review																	▲															
EDM Fabrication																	█															
Final Testing																					█											
Production Decision																									▲							
Production																									█							

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4					PROGRAM ELEMENT NAME AND NUMBER JT Service EOD Dev 0603654N										PROJECT NAME AND NUMBER JT Service EOD Systems/0377																	
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems																																
RDT&E Milestone Chart																																
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
JOINT SERVICE IED CM																																
Analysis of Alternatives (AOA)																																

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EXHIBIT R-4, RDT&E Project Justification	DATE: February 2007
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4	PROGRAM ELEMENT NAME AND NUMBER JT Service EOD Dev 0603654N	PROJECT NAME AND NUMBER JT Service EOD Systems/0377
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0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems

RDT&E Milestone Chart

	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013							
	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	1	2	3	4				
TCM, AN/PLT-XXX (CLASSIFIED III)																																				
Testing (Preliminary)	█	█																																		
Interim Progress Review			▲																																	
EDM Fabrication			█	█																																
Final Testing							█	█																												
Production Decision								▲																												
Production and Deployment								█	█	█	█																									
Block Upgrade R&D								█	█	█	█																									
Production Deployment															█	█	█	█																		
Continuous Improvement															█	█	█	█	█	█																

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4				PROGRAM ELEMENT NAME AND JT Service EOD Dev 0603654N				PROJECT NAME AND NUMBER JT Service EOD Systems/0377																								
0603654N Joint Service EOD Development; 0377 Joint Service EOD Systems RDT&E Milestone Chart																																
FY 2006					FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
EOD FUTURE RADIOGRAPHIC SYSTEM																																
Program Initiation																																
Development																																
Testing																																
Interim Progress Review																																
EDM Fabricatioin																																
Final Testing																																
Production Decision																																
Production																																

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Exhibit R-4a, Schedule Detail					DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N/ BA-4	0603654N/Joint Service EOD Development				0377/Joint Service EOD Systems			
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
EOD MAN TRANSPORTABLE ROBOTIC SYSTEM								
Production	1Q-4Q	1Q-2Q						
Block Upgrade (DEV)	1Q-4Q	1Q-3Q						
Block Upgrade (PROD)	4Q	1Q-4Q	1Q-4Q	1Q-2Q				
JLONS								
Technology Development	1Q-4Q	1Q-4Q	1Q-4Q	1Q-2Q				
Milestone B				2Q				
System Development & Demonstration				2Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q	
Milestone C							3Q	
Production							3Q-4Q	1Q-4Q
EOD DECISION SUPPORT SYSTEM								
Milestone B	1Q							
Development Phase	2Q-4Q	1Q-4Q	1Q-3Q					
Milestone C			3Q					
Production			3Q-4Q	1Q-4Q				
Increment I (DEV)			3Q-4Q	1Q-4Q	1Q-3Q			
Increment I (PROD)					3Q-4Q	1Q-4Q		
Increment II (DEV)					3Q-4Q	1Q-4Q	1Q-3Q	
Increment II (PROD)						3Q-4Q	1Q-4Q	
Increment III (DEV)						3Q-4Q	1Q-4Q	1Q-3Q

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME				
RDT&E,N/ BA-4	0603654N/Joint Service EOD Development				0377/Joint Service EOD Systems				
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
ELECTRONIC SAFE/ARM FUZE-IED									
Program Initiation			3Q						
Development			3Q-4Q	1Q-3Q					
Testing				3Q-4Q	1Q-2Q				
Interim Progress Review					2Q				
EDM Fabrication					2Q-4Q				
Final testing						1Q-3Q			
Production Decision						3Q			
Production						3Q-4Q	1Q-4Q	1Q-4Q	
JOINT SERVICE IED CM									
Analysis of Alternatives (AOA) Study	1Q-3Q								

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Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/ BA-4	PROGRAM ELEMENT 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 0377/Joint Service EOD Systems			
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
TCM, AN/PLT-XXX (CLASSIFIED III)								
Testing (Preliminary)	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					
Block Upgrade R&D		4Q	1Q-4Q					
Production Deployment				1Q-4Q	1Q-4Q			
Continuous Improvement				1Q-4Q	1Q-4Q	1Q-4Q		
EOD FUTURE RADIOGRAPHIC SYSTEM								
Program Initiation			1Q					
Development			2Q-4Q					
Testing				1Q-3Q				
Interim progress Review				3Q				
EDM Fabrication				3Q-4Q	1Q-2Q			
Final Testing					1Q-3Q			
Production Decision					3Q			
Production					3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 1317/EOD Diving Systems			
COST (\$ in Millions)	FY2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	2.263	2.690	2.770	2.767				
RDT&E Articles Qty	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.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 1317/EOD Diving Systems		
(U) B. Accomplishments/Planned Program				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.360	0.551	0.478	0.460
RDT&E Articles Quantity	Various	Various	Various	Various
<div style="border: 1px solid black; min-height: 60px; margin-top: 5px;"> 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. Affirm Diver Equipment requirements Compliance. </div>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.500	0.350	0.860	0.622
RDT&E Articles Quantity	Various	Various	Various	Various
<div style="border: 1px solid black; min-height: 60px; margin-top: 5px;"> 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 EOD Tools and Equipment for Maritime Homeland Defence (EODMHL) for above and below water neutralization of mines to support EOD & NSCT-1 Neutralization missions. </div>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.250	0.250	0.953	1.319
RDT&E Articles Quantity	Various	Various	Various	Various
<div style="border: 1px solid black; min-height: 60px; margin-top: 5px;"> Develop Explosive Ordnance Disposal Tools and Equipment for Mine Countermeasures missions and neutralization of mines to support EOD and NSCT-1. Develop technology refresh improvements to the Underwater Imaging System (UIS), and to detect Buried Mines for Neutralization and Acoustic Firing System (AFS). </div>				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 1317/EOD Diving Systems		
(U) B. Accomplishments/Planned Program				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.153	1.539	0.479	0.366
RDT&E Articles Quantity	Various	Various	Various	Various
<div style="border: 1px solid black; min-height: 100px; margin-top: 10px;"> <p>Develop a New Underwater Breathing Apparatus (NUBA) (formally known as Advanced Underwater Breathing Apparatus (UBA)) to improve underwater breathing capabilities. Develop a Diver Hull Inspection Navigation System to improve current capabilities in existing hull search operations.</p> </div>				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development			PROJECT NUMBER AND NAME 1317/EOD Diving Systems					
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN 0975	6,306	4,583	3,934	4,531						
PANMC 0340		1,860	1,690							
(U) D. ACQUISITION STRATEGY: *										
<p>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.</p>										

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				1317/EOD Diving Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, MD	35.286	0.441	10/05	0.800	10/06	0.800	10/07	0.801	10/08	Continuing	Continuing	
Software Development	WX	EODTD, IH, MD	1.938	0.254	10/05	0.500	10/06	0.500	10/07	0.500	10/08	Continuing	Continuing	
Systems Engineering	WX	EODTD, IH, MD	8.228									0.000	8.228	
ILS	WX	EODTD, IH, MD	11.916									0.000	11.916	
Systems Engineering	WX	NSWC, PC	0.000	0.190	10/05	0.190	10/06	0.190	10/07	0.190	10/08	Continuing	Continuing	
Systems Engineering	WX	SPAWAR	0.000	0.400	10/05	0.200	10/06	0.400	10/07	0.400	10/08	Continuing	Continuing	
Subtotal Product Development			57.368	1.285		1.690		1.890		1.891		0.000	64.124	
Remarks:														
Program Management Support	C/CPFF	EDO, Alex, VA	3.537									0.000	3.537	
Program Management Support	C/CPFF	EDO, Alex, VA	0.623	0.350	10/05	0.258	10/06	0.380	10/07	0.390	10/08	Continuing	Continuing	
Integrated Logistics Support														
Configuration Management														
Technical Data														
GFE														
Award Fees														
Subtotal Support			4.160	0.350		0.258		0.380		0.390		0.000	5.538	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE:		DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				1317/EOD Diving Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	EODTD, IH, MD	4.167	0.050	10/05	0.050	10/06	0.006	10/07	0.070	10/08	Continuing	Continuing	
Operational Test & Evaluation	WX	EODTD, IH, MD	1.560										1.560	
Subtotal T&E			5.727	0.050		0.050		0.006		0.070		0.000	5.903	
Remarks:														
Program Management Support	WX	EODTD, IH, MD	7.138	0.275	10/05	0.360	10/06	0.375	10/07	0.290	10/08	Continuing	Continuing	
Miscellaneous	WX	Various	5.928	0.303	10/05	0.332	10/06	0.119	10/07	0.126	10/08	Continuing	Continuing	
Subtotal Management			13.066	0.578		0.692		0.494		0.416		0.000	15.246	
Remarks:														
Total Cost			80.321	2.263		2.690		2.770		2.767		0.000	90.811	
Remarks:														

CLASSIFICATION:

EXHIBIT R-4, Schedule Profile																DATE:																
APPROPRIATION/BUDGET ACTIVITY																February 2007																
RDT&E, N/BA-4				PROGRAM ELEMENT NAME AND NUMBER								PROJECT NAME AND NUMBER																				
				JT Service EOD Dev 0603654N								1317/EOD Diving Systems																				
0603654N Joint Service EOD Development; 1317 EOD Diving Systems																																
RDT&E Milestone Chart																																
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
ADVANCED U/W LIMPET MINE																																
Testing																																
Production Decision																																
Production																																
ACOUSTIC FIRING SYSTEM (PIP)																																
Testing																																
Production Decision																																
Production																																
UIS PIP																																
Testing																																
Production Decision																																
Production																																
DIVER HULL NAVIGATION																																
Testing																																
Production Decision																																
Production																																

CLASSIFICATION:

EXHIBIT R-4, Schedule Profile																	DATE: February 2007															
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4					PROGRAM ELEMENT NAME AND JT Service EOD Dev 0603654N					PROJECT NAME AND NUMBER 1317/EOD Diving Systems																						
0603654N Joint Service EOD Development; 1317 EOD Diving Systems																																
RDT&E Milestone Chart																																
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013			
	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	1	2	3	4
NEW U/W Breathing Apparatus (NUBA) Testing Production Decision Production	█				▲				█																							
					█																											
									▲				█																			
ACOUSTIC FIRING SYSTEM RADIO FREQUENCY PIP Testing Production Decision Production	█				█				█				█				█				█											
	█				█				█				█				█				█											
	█				█				█				█				█				█											

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/ BA-4	PROGRAM ELEMENT 0603654/Joint Service EOD Development				PROJECT NUMBER AND NAME 1317/EOD Diving Systems			
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
ADVANCED U/W LIMPET MINE								
Testing								
Production Decision								
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-3Q			
Production Decision					4Q			
Production						1Q-4Q	1Q-4Q	1Q-4Q
DIVER HULL NAVIGATION								
Testing	1Q-4Q	1Q-4Q						
Production Decision		4Q						
Production			1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development				PROJECT NUMBER AND NAME 3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	0.000	0.468	61.392	96.896				
RDT&E Articles Qty	Various	Various	Various	Various				
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>Provides for the research , development, for all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. Navy has been designated single manager for Joint Counter RCIED Electronic Warfare (JCREW), requiring RDT&E to develop capabilities that meet joint requirements. CREW spiral development to make rapid improvements to performance, supportability and affordability. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted and fixed site operations.</p> <p>* JCREW Spirals 3.1 and 3.2 are interim solutions funded by the Joint IED Defeat Organization (OSD).</p>								

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)
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(U) B. Accomplishments/Planned Program

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.468	61.392	96.896
RDT&E Articles Quantity	Various	Various	Various	Various

Initiate the development of a Joint CREW system of systems for mounted, dismounted and fixed cite operations for all four services. Develop improvements for the Convoy Planning Tool.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007																									
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME																										
RDT&E, N / BA-4			0603654N/Joint Service EOD Development			3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)																										
<p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Line Item No. & Name</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2006</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2007</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2008</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2009</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2010</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2011</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2012</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>FY 2013</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>To Complete</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td colspan="11" style="padding: 20px 0 0 0;"> <p>(U) D. ACQUISITION STRATEGY: *</p> <p>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 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. Procurements across the services will be combined to gain quantity discounts.</p> </td> </tr> </tbody> </table>											<u>Line Item No. & Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>	<p>(U) D. ACQUISITION STRATEGY: *</p> <p>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 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. Procurements across the services will be combined to gain quantity discounts.</p>										
<u>Line Item No. & Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>																						
<p>(U) D. ACQUISITION STRATEGY: *</p> <p>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 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. Procurements across the services will be combined to gain quantity discounts.</p>																																

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development		TBD	0.000					27.000	10/07	29.000	10/08	Continuing	Continuing	
Software Development		Various	0.000					1.500	10/07	3.000	10/08	Continuing	Continuing	
Systems Engineering		Various	0.000			0.250	12/06	2.500	10/07	8.429	10/08	Continuing	Continuing	
ILS		Various	0.000					1.500	10/07	1.500	10/08	Continuing	Continuing	
Subtotal Product Development			0.000			0.250		32.500		41.929			Continuing	
Remarks:														
Program Management Support		Various	0.000					0.850	10/07	4.250	10/08	Continuing	Continuing	
Software Support		Various	0.000					0.250	10/07	0.250	10/08			
Training Development		Various	0.000					2.500	10/07	3.000	10/08	Continuing	Continuing	
Integrated Logistics Support		Various	0.000					9.742	10/07	18.497	10/08	Continuing	Continuing	
Configuration Management		Various	0.000					0.500	10/07	1.750	10/08	Continuing	Continuing	
Technical Data		Various	0.000					0.750	10/07	1.500	10/08	Continuing	Continuing	
GFE		Various	0.000											
Award Fees													Continuing	
Subtotal Support			0.000			0.000		14.592		29.247		0.000	Continuing	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation		Various	0.000					12.550	10/07	20.470	10/08	Continuing	Continuing	
Operational Test & Evaluation		Various	0.000											
Subtotal T&E			0.000			0.000		12.550		20.470		0.000	Continuing	
Remarks:														
Program Management Support		Various	0.000			0.170	12/06	1.500	10/07	3.500	10/08	Continuing	Continuing	
Miscellaneous		Various	0.000			0.048	12/06	0.250	10/07	1.750	10/08	Continuing	Continuing	
Subtotal Management			0.000			0.218		1.750		5.250		0.000	Continuing	
Remarks:														
Total Cost			0.000			0.468		61.392		96.896		0.000	Continuing	
Remarks:														

CLASSIFICATION:

EXHIBIT R-4, Schedule Profile																	DATE: February 2007																																																																													
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NAME AND				PROJECT NAME AND NUMBER																																																																																						
RDT&E, N/BA-4				JT Service EOD Dev 0603654N				3177/Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfar (JCREW)																																																																																						
0603654N Joint Service EOD Development; 3177 Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW)																																																																																														
RDT&E Milestone Chart																																																																																														
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	FY2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013																																																																	
	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	1	2	3	4	1	2	3	4																																																										
CONVOY PLANNING TOOL																																																																																														
Program Initiation																																																																																														
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4		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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	8.370	6.132	4.232	3.584				
RDT&E Articles Qty	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.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2007
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development	PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV
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(U) B. Accomplishments/Planned Program

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	8.370	6.132	4.232	3.584
RDT&E Articles Quantity	Various	Various	Various	Various

This program supports development, testing and Fleet approval for evolving generations of small affordable unmanned underwater vehicles, support equipment, and common operator interface systems to address validated requirements in support of Explosive Ordnance Disposal and Naval Special Clearance Team mission areas. Mission areas include: open and confined areas, hulls, piers and pilings to search, classify, map, re-acquire, identify, and neutralize mines and underwater improvised explosive devices.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4			PROGRAM ELEMENT NUMBER AND NAME 0603654N/Joint Service EOD Development			PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV				
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN 0975	4069	7653	6467	3577						
(Funds listed in section C. are under cost code UQ034, VSW/EOD UUV, Magneto Inductive Signaling Device, and UUV HULS PIP)										
(U) D. ACQUISITION STRATEGY: *										
<p>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.</p> <p>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 Search Classify Map (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.</p>										

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				4023/EOD VSW MCM/Force Protection UUV							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, MD	7.215	2.819	10/05	1.913	10/06	1.313	10/07	1.094	10/08	Continuing	Continuing	
Systems Engineering	WX	EODTD, IH, MD	3.169	2.849	10/05	1.970	10/06	1.327	10/07	0.998	10/08	Continuing	Continuing	
Subtotal Product Development			10.384	5.668		3.883		2.640		2.092		0.000	24.667	
Remarks:														
Program Management Support	C/CPFF	EDO, Alex, VA	0.650	0.712	10/05	0.616	10/06	0.539	10/07	0.463	10/08	Continuing	Continuing	
Program Management Support	C/CPFF	EDO, Panama City FL	0.000									Continuing	Continuing	
Training Development			0.000									Continuing	Continuing	
Integrated Logistics Support			0.000									Continuing	Continuing	
Configuration Management			0.000									Continuing	Continuing	
Technical Data			0.000									Continuing	Continuing	
GFE			0.000									Continuing	Continuing	
Award Fees			0.000									Continuing	Continuing	
Subtotal Support			0.650	0.712		0.616		0.539		0.463		0.000	2.980	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-4			0603654N/Joint Service EOD Development				4023/EOD VSW MCM/Force Protection UUV							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	EODTD, IH, MD	1.710	1.180	10/05	0.986	10/06	0.635	10/07	0.600	10/08	Continuing	Continuing	
Operational Test & Evaluation	WX	EODTD, IH, MD	0.290	0.290	10/05	0.252	10/06	0.127	10/07	0.142	10/08	Continuing	Continuing	
Subtotal T&E			2.000	1.470		1.238		0.762		0.742		0.000	6.212	
Remarks:														
Program Management Support	WX	EODTD, IH, MD	0.490	0.370	10/05	0.310	10/06	0.211	10/07	0.173	10/08	Continuing	Continuing	
Miscellaneous	WX	Various	0.678	0.150	10/05	0.085	10/06	0.080	10/07	0.114	10/08	Continuing	Continuing	
Subtotal Management			1.168	0.520		0.395		0.291		0.287		0.000	2.661	
Remarks:														
Total Cost			14.202	8.370		6.132		4.232		3.584		0.000	36.520	
Remarks:														

CLASSIFICATION:

EXHIBIT R-4, Schedule Profile																	DATE: February 2007																			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4				PROGRAM ELEMENT NAME AND JT Service EOD Dev 0603654N								PROJECT NAME AND NUMBER 4023/EOD VSW MCM/Force Protection UUV																								
0603654N Joint Service EOD Development; 4023 EOD VSW MCM/Force Prtoection UUV																																				
RDT&E Milestone Chart																																				
	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY2012				FY2013							
	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	1	2	3	4	1	2	3	4
Small UUV																																				
1st Generation (Search Classify & Map)																																				
Testing Final																																				
Production Decision																																				
Production																																				
Spiral CIP																																				
2nd Generation (Require and ID)																																				
User Operational Eval System																																				
Preliminary Operational Capability																																				
IOC Prototype Development																																				
IOC Fleet Testing																																				
IOC Production Decision																																				
IOC Production																																				
Spiral CIP																																				

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UNCLASSIFIED

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/ BA-4	PROGRAM ELEMENT 0603654/Joint Service EOD Development				PROJECT NUMBER AND NAME 4023/EOD VSW MCM/Force Protection UUV			
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
1st Generation Small UUV (Search, Classify & Map)								
Testing Final								
Production Decision								
Production	1Q-3Q							
Spiral CIP	4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
2nd Generation (Require and ID)								
UOES Operational Eval System								
Preliminary Operational Capability								
IOC Prototype Development	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	1Q-4Q	1Q-4Q	1Q-4Q
3rd Generation (Neutralization)								
Analysis of Alternatives (AOA)								
Requirements Definition	1Q-3Q							
UOES Operational Eval System	3Q-4Q	1Q-4Q	1Q-4Q	1Q				
Testing Final				1Q-4Q				
Production Decision (1st Generation)					1Q			
Preliminary Operational Capability					2Q			
Production					3Q-4Q	1Q-4Q		
Spiral CIP						1Q-4Q	1Q-4Q	1Q-4Q
Magneto-Inductive								
Requirements Definition								
Prototype Development	1Q-4Q	1Q-4Q						
Final Testing			1Q-3Q					
Production Decision			3Q					
IOC Production				1Q-4Q	1Q-3Q			
Spiral CIP					2Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q