CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:			
								Febru	uary 2006	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NO	MENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALU	ATION, NAVY /	BA-4			0603654N/Joi	nt Service EOI	Development	İ		
	Prior									Total
COST (\$ in Millions)	Years Cost	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	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:

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.

^{*} 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

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603654N/Joint Se	ervice EOD Develop	oment		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).

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	on	DATE:	
		February 2006	
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) B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	5.035	8.287	7.780
RDT&E Articles Quantity	Various	Various	Various

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).

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	3.752	3.324	4.601
RDT&E Articles Quantity	Various	Various	Various

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.

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.535	0.594	0.578
RDT&E Articles Quantity	Various	Various	Various

Develop remote systems to include the EOD Man Portable Robotics Program (MPRS) project.

CLASSIFICATION:

	tion			DATE: February 2006	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND N	AME PROJ	ECT NUMBER AND I		
DT&E, N / BA-4	0603654N/Joint Service EOD Developme		Joint Service EOD Sy		
) B. Accomplishments/Planned Program					
		Y 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost		.300	11.068	2.653	
RDT&E Articles Quantity		arious	Various	Various	
Classified Project III (A & B) and Joint Service	Improvised Explosive Device Countermeasures	project.			
I .					
	F	Y 05	FY 06	FY 07	\neg
Accomplishments/Effort/Subtotal Cost		Y 05	FY 06 0.000	FY 07 0.000	\exists
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	C	Y 05 .000	FY 06 0.000 Various	FY 07 0.000 Various	
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C	.000	0.000	0.000	
	C Vá	.000 arious	0.000 Various	0.000 Various	
RDT&E Articles Quantity	C Vá	y 05	0.000 Various	0.000 Various	
	C Vá	.000 arious	0.000 Various	0.000 Various	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE	:
•					February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	F	PROJECT NUME	BER AND NAME	
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	0	377/Joint Service	e EOD Systems	
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:		FY 2005	FY 2006	FY 2007	
Previous President's Budget					
(FY 06 Pres Controls):		7.269	23.631	19.386	
Current BES/President's Budget					
(FY07 Pres Controls):		11.622	23.273	15.612	
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	

(U) Schedule:

The production decision for the Submunitions Clearance project has moved from 2Q FY05 to 4Q FY05, reflecting additional T&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 concensus 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&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 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.

(U) Technical:

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Proje	ect Justification			DATE:
				February 2006
APPROPRIATION/BUDGET ACTI	VITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME
RDT&E, N /	BA-4	0603654N/Joint Service EOD Development	0377/Joint Service EOD Syst	ems

(U) D. OTHER PROGRAM FUNDING SUMMARY:

To Total

<u>Line Item No. & 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>Complete</u> <u>Cost</u>

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.

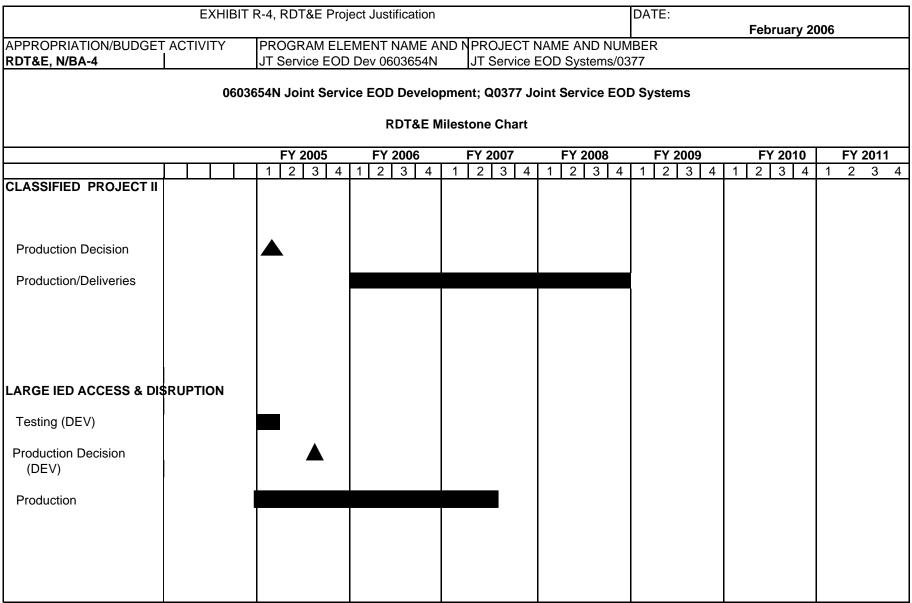
CLASSIFICATION:

							DATE:						
Exhibit R-3 Cost Analysis (pa	age 1)									Febr	uary 2006		
APPROPRIATION/BUDGET ACT	IVITY		PROGRAM ELEME				R AND NAM						
RDT&E, N / BA-4	1-			vice EOD Development	0377/Join		OD System			T=	.	1	1
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	1
Software Development	WR	EODTD, IH, MD	3.679		2.200		5.400		4.455		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)
												0.000)
Subtotal Product Development			123.174		6.592		16.560)	10.100		0.000	156.426	6
Program Management Support	C/CPFF	EDO, Alexandria	, VA 3.460									3.460	
Program Management Support	C/CPFF	EDO, Alexandria			0.300	10/04	0.600	10/05	0.600	10/06	0.000		
											Continuing		
												0.000)
												0.000)
												0.000)
												0.000)
												0.000)
Subtotal Support			3.805		0.300		0.600)	0.600		0.000	5.305	5
Remarks:													
			R-1 SHC	PPING LIST - Item	No. 50								

CLASSIFICATION:

							DATE:						
Exhibit R-3 Cost Analysis (pa	ge 2)									Feb	ruary 2006		
APPROPRIATION/BUDGET ACTI	VITY		OGRAM ELEME		PROJECT NUMBER AND NAME								
RDT&E, N / BA-4	1 -			rvice EOD Developme				T	1	I	ı	T	
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost		FY 05	FY 05 Award Date	FY 06	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	
												0.000	
Subtotal T&E			66.392		3.000		2.200		1.938		0.000	73.530	
	1	I			ı	Τ		T	1	T	1	.	ı
Program Management Support	WR	EODTD, IH, MD	4.520		0.751	10/04	0.600		0.625		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		
Remarks:													
Total Cost			202.581		11.622		23.273		15.612		Continuing	Continuing	
Remarks:													

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CLASSIFICATION:

CLASSIFICATION.		EXHI	BIT R	-4, R[OT&E	Project	Justi	ification			DATE:			
						•						February 2	006	
APPROPRIATION/BUDGET AC	TIVI	TY								NAME AND NU				
RDT&E, N/BA-4				J	Γ Serv	ice EO	De	v 0603654N	JT Service	EOD Systems/0	0377			
0603654N Joint Service EOD Development; Q0377 Joint Service EOD Systems														
RDT&E Milestone Chart														
						2005		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
	ļ				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 PORTABLE ROBOT	IC S	SYSTE	M											
Testing (Final)														
Production Decision														
Production														
Block Upgrade (DEV)														
Block Upgrade (PROD)														
	l													

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EXHIE	BIT R-4, RDT&E Pro	ject Justification			DATE:		
APPROPRIATION/BUDGET ACTIVITY	DDOCDAM EL	EMENT NAME A	ND IDDO ITOT I		ADED.	February 2	006
RDT&E, N/BA-4		EMENT NAME A D Dev 0603654N		EOD Systems/0			
10102,1007	101 0011100 201	2 201 000000 111	lo i Colvido	202 Cyclomore	51.1		
06	03654N Joint Serv	ice EOD Develo	oment; Q0377 J	oint Service EO	D Systems		
		RDT&E M	lilestone 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
SUBMUNITIONS CLEARANCE							
Testing (Final)							
Production Decision							
Production							
Production							
JLONS							
Milestone B							
	_					<u> </u>	
System Development and Demonstration							
and Demonstration							
Milestone C							
Production and Deployment							
Block Improvements							
(DEV)							

CLASSIFICATION:

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																								Fe	brua	ry 200	6	
APPROPRIATION/BUDGE	T AC	CTIV	ITY							AME A		NUM	IBER				DJEC											
RDT&E, N/BA-4				J	T Ser	vice I	EOD	Dev	0603	3654N					,	JT S	Servic	ce E	OD	Syst	tems/	0377	7					
			0603	654	N Jo	int Se	ervi	ce E	OD D	evelo	pme	nt; C	0377	Jo	int	Ser	vice	EOI	D Sy	ster	ns							
									RD	T&E N	liles	tone	Char	t														
					FY	2005		F	Y 20	06		FY 2	007		F	FY 2	2008		F	Y 20	009		F	Y 20	10	F۱	/ 201	1
					1 2	3	4	1	2 3	3 4	1	2	3 4	ļ [1	2	3	4	1	2	3	4 1		2 3	3 4	1	2 3	3 4
EOD DECISION SUPPORT	 Γ SY: 	STE	M																									
Milestone B																												
Development Phase																												
Milestone C													4															
Production																												
Increment I (DEV)																												
Increment I (PROD)																												
Increment II (DEV)																												
Increment II (PROD)																												
Increment III (DEV)																												
										D 4 (<u> </u>			ᆣ	_	-		1.								I		

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																	Februa	ry 2006
APPROPRIATION/BUDGE	T ACTIV	/ITY		RAM EL				ND NL	JMBER			ROJECT					<u>.</u>	
RDT&E, N/BA-4			JT Sei	rvice EOI	De De	v 06036	54N				JT	Service	EOD	Systen	ns/03	377		
		06036	54N Jo	int Serv	ice E	OD Dev	elop	ment;	Q0377	Joii	nt Se	ervice EC	D Sy	/stems	;			
						RDT&	ΕM	ilestor	ne Char	t								
			FY	2005		FY 2006	;	FY	2007		FY	[′] 2008	ı	FY 200	9	F	Y 2010	FY 2011
			1 2	3 4	1	2 3	4	1 2	3 4	l 1	1 2	2 3 4	1	2 3	4	1	2 3 4	1 2 3 4
ADVANCED ORDNANCE L	OCATO	OR																
Program Initiation															\			
Development																		
Testing																		

CLASSIFICATION:

		E.	XHIBIT R-4, RDT	&E Project Just	fication			DATE:	
								Februai	y 2006
APPROPRIATION/BUDGET AC	CTIVIT	ΓY	PROGRAM ELE		ND NUMBER		NAME AND NUM		
RDT&E, N/BA-4			JT Service EOD	Dev 0603654N		JT Service	EOD Systems/03	377	
	0	6036	54N Joint Servic	e EOD Develop	ment; Q0377 Jo	oint Service EC	DD Systems		
				RDT&E M	lestone 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
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									
				D 4 0110DD		N 50			

R-1 SHOPPING LIST - Item No. 59

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

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	EXHIE	3IT F	R-4, R	DT&E	Project	Jus	stification						DATE:								
			•													Fe	ebrua	ary 2	006		
APPROPRIATION/BUDGET ACTIVITY	ī						MENT NAME A														
RDT&E, N/BA-4				JT S	ervice EC	D	Dev 0603654N	,	JT Service	EO	D System	s/03	77								
	06	036	54N J	oint S	Service E	0	D Developmen	t; Q0:	377 Joint	Ser	vice EOD	Sys	tems								
						F	RDT&E Milesto	one C	hart												
					Y 2005		FY 2006		Y 2007		FY 2008			2009			201			Y 2	
				1	2 3 4	1	1 2 3 4	1	2 3 4	. 1	2 3	4	1 2	3	4	1 2	2 3	4	1	2	3 4
CLASSIFIED III A																					
Program Initiation																					
Testing (Preliminary)						Ħ															
Interim Progress Review																					
EDM Fabrication																					
Final Testing																					
Production Decision																					
Production and Deployment																					
CLASSIFIED III B																					
Milestone B																					
EDM Fabrication																					
Final Testing																					
Milestone C																					
Production and Deployment (B)																					

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 20	06
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	FMFNT			PROJECT NU	I IMBER AND NA		
RDT&E,N/ BA-4	0603654N/Joi) Development			rvice EOD Syst		
CLASSIFIED PROJECT II	000000114/0011	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
CEASSII IED I NOSECT II		1 1 2003	1 1 2000	1 1 2007	1 1 2000	1 1 2009	1 1 2010	1 1 2011
Production Decision		1Q						
Production/Deliveries			1Q-4Q	1Q-4Q	1Q-4Q			
LARGE IED ACCESS & DISRUPTION								
Testing (DEV)		1Q						
Production Decision (DEV)		3Q						
Production		1Q-4Q	1Q-4Q	1Q-3Q				
EOD MAN PORTABLE ROBOTIC SYSTEM								
Testing (Final)		1Q						
Production Decision Production		3Q 2Q-4Q	1Q-4Q	1Q-2Q	-			
Block Upgrade (DEV)		4Q	1Q-4Q 1Q-4Q	1Q-2Q 1Q-2Q				
Block Upgrade (PROD)		70	4Q	1Q-4Q	1Q-2Q			
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UNCLASSIFIED

Exhibit R-4a, Schedule Detail						DATE:	F-1 00	•••
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	IEMENT			PRO IECT NI	I IMBER AND N	February 20	06
RDT&E,N/ BA-4		nt Service EOD) Development			rvice EOD Syst		
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)					1		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

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					DATE:	February 20	06
PROGRAM E	LEMENT			PROJECT NU			
0603654N/Jo	int Service EOD	Development		0377/Joint Se	vice EOD Syst	ems	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
					3Q		
					3Q-4Q	1Q-4Q	1Q-3Q
							4Q
		1Q					
		3Q-4Q					
			4Q	1Q			
				3Q			
		3Q-4Q	1Q-4Q				
				1Q-2Q			
				3Q			
	1Q						
		1Q-2Q					
		3Q-4Q	1Q-2Q				
			2Q-3Q				
			3Q				
			3Q-4Q	1Q-4Q	1Q-2Q		
		2Q					
		3Q-4Q	1Q-2Q				
			3Q-4Q	1Q			
				4Q	1Q-4Q	1Q-2Q	
		FY 2005	0603654N/Joint Service EOD Development FY 2005 FY 2006 10 10 30 30-40 30-40 30 30 40 20 20	0603654N/Joint Service EOD Development FY 2005 FY 2006 FY 2007 1Q	0603654N/Joint Service EOD Development FY 2005 FY 2006 FY 2007 FY 2008 FY 2007 FY 2008 FY 2007 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2007 FY 2008 FY 2008 FY 2008 FY 2007 FY 2008 F	PROGRAM ELEMENT 0603654N/Joint Service EOD Development 0377/Joint Service EOD Syst FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 3Q 3Q 3Q-4Q 3Q-4Q 1Q-2Q 4Q 1Q-2Q 4Q 1Q-2Q 3Q-4Q 1Q-2Q 3Q-4Q 1Q-2Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q 3Q-4Q 1Q-2Q 3Q-3Q 3Q-4Q 1Q-2Q	PROGRAM ELEMENT

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603654N/Joint Se	ervice EOD Develop	oment		1317/EOD Diving S	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.

CLASSIFICATION:

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

(U) B. Accomplishments/Planned Program

	FY (FY 07
Accomplishments/Effort/Subtotal Cost	0.68	0.360	0.561
RDT&E Articles Quantity	Vario	us Various	Various

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.

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.196	0.500	0.350
RDT&E Articles Quantity	Various	Various	Various

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 & NSCT-1 Neutralization missions.

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.250	0.250
RDT&E Articles Quantity	Various	Various	Various

Develop technology refresh improvements to the Underwater Imaging System (UIS), and Acoustic Firing System (AFS).

CLASSIFICATION:

	ation		DATE: February 2006	
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND		
DT&E, N / BA-4	0603654N/Joint Service EOD Development	1317/EOD Diving Systems		
B. Accomplishments/Planned Program				
	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	FY 05 0.000	FY 06 0.000	FY 07 0.000	
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity				
	0.000	0.000	0.000	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:	
							February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUM	IBER AND NAN	1E	PROJECT NUMBER AND N	IAME	
RDT&E, N / BA-4	0603654N/Joi	nt Service EOI	D Development		1317/EOD Diving Systems		
(U) C. PROGRAM CHANGE SUMMARY:							
(U) Funding: Previous President's Budget (FY06 Pres Controls) Current BES/President's Budget (FY07 Pres Contr Total Adjustments Summary of Adjustments Programmatic Changes Other General Provisions Subtotal (U) Schedule: Limpet Mine Neutralization production decision (U) Technical: Not applicable	rols)	FY 2005 2.400 2.431 0.031 0.031 0.031	FY 2006 2.296 2.262 -0.034 -0.034 -0.034	FY 2007 2.764 2.700 -0.064 -0.064 -0.064	te additional effectiveness test	ing.	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Proje	ct Justification							DATE:			
									Februa	ry 2006	
APPROPRIATION/BUDGET ACTIV	VITY	PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NU	MBER AND N	AME			
RDT&E, N /	BA-4	0603654N/Joir	nt Service EOD	Development		1317/EOD Div	ring Systems				
(U) D. OTHER PROGRAM Line Item No. & Name	FUNDING SUMMARY:	<u>FY 2005</u>	FY 2006	FY 2007	FY 2008	FY 2009	<u>FY 2010</u>	FY 2011	To <u>Complete</u>	Total <u>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.

UNCLASSIFIED

											DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)												Februa	ry 2006	
APPROPRIATION/BUDGET ACTIV	TTY		PROGRAM E	LEMENT			PROJE	CT NUM	IBER A	ND NAM	IE				
RDT&E, N / BA-4			0603654N/Joi	int Service EOD	Develop	ment	1317/EC	DD Divir	ng Syste	ms					
Cost Categories		Performing	•	Total				FY 05		FY 06		FY 07			
	Method	Activity &		PY s				Award		Award		Award	Cost to	Total	Target Value
	& Type	Location		Cost			Cost	Date	Cost				Complete	Cost	of Contract
Primary Hardware Development	WX	EODTD, IH, N		33.862			1.424	10/04	0.441		0.800		Continuing	Continuing	
Software Development	WX	EODTD, IH, N		1.791			0.147	10/04	0.254	10/05	0.500	10/06	Continuing	Continuing	
Systems Engineering	WX	EODTD, IH, N		8.105			0.123						Continuing	Continuing	
ILS	WX	EODTD, IH, N	1D	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	
Program Management Support	C/CPFF	EDO, Alex, V	A	3.537									0.000	3.537	
Program Management Support	C/CPFF	EDO, Alex, V	Α	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:															

UNCLASSIFIED

							DATE:		DATE:				
Exhibit R-3 Cost Analysis (page	e 2)										Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVIT	ΓΥ	PROGRAM EI	LEMENT		PROJE	CT NUM	BER AN	ID NAME				-	
RDT&E, N / BA-4			nt Service EOD	Development	1317/E	OD Divin	g Syster	ms					
Cost Categories	Contract	Performing	Total			FY 05		FY 06		FY 07			
	Method & Type	Activity & Location	PY s Cost										Target Value of Contract
Developmental Test & Evaluation	WX	EODTD, IH, MD	4.020		0.147	10/04	0.050		0.050		Complete	Continuing	or Contract
Operational Test & Evaluation	WX	EODTD, IH, MD	1.560		0.147	10/04	0.050	10/03	0.030	10/00	Continuing	1.560	
Operational Test & Evaluation	VVX	LODID, III, MD	1.500									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	
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	
												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:													

UNCLASSIFIED

E	XHIBIT F	R-4, Sch	nedule	e Pro	file								DATE:				
	land										.=			Feb	ruary 2	2006	
APPROPRIATION/BUDGET ACTIVITY		OGRAN Service						NUM					ND NUMBER				
RDT&E, N/BA-4	1913	Service	EOD	Dev	/ 0003	034IN				317/	EOD D	iving S	ystems				
	060365	4N Joir	nt Ser	rvice	EOD	Deve	lopr	ment	; 131	7 EC	DD Divi	ng Sys	stems				
					RDT&I	E Mil	esto	ne C	hart								
				F	Y 200			FY 2			FY 2		FY 2008	FY 2		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
ADVANCED U/W LIMPET MINE																	
Testing																	
Production Decision			ŀ														
Production						_											
ACOUSTIC FIRING SYSTEM (PIP)																	
Testing																	
Production Decision																	
Production											-						
UIS PIP																	
Testing																	
Production Decision																	
Production																	
DIVER HULL NAVIGATION																	
Testing			ļ														
Production Decision											_						
Production																	

UNCLASSIFIED

EX	HIBIT	R-4,	Sche	dule	Pro	file								Di	ATE:	:												
APPROPRIATION/BUDGET ACTIVITY	IDRO(MELE	= 1/1	INT	NAME	ΔΝ	וח וב	PR∩	IECT	ΝΔΝ	1 Ε Δ	ND NI	IMRI	FR				Feb	orua	ry 20	006						
RDT&E, N/BA-4						603654							ystem		LIX													
	· •														.4	_												
'	060363	54N .	Joint	Ser	vice	EOD I	Dev	/eiop	pmer	it; 13	17 🗅	עט	DIVING	j Sys	stem	5												
					ı	RDT&E	E Mi	ilest	tone	Char	t																	
					FY	2005		F	Y 20	06		FY	2007		FY	200	08		FY 2	2009)		FY 2	010		F	Y 20	11
				1	2	3 4	1	1	2 3	3 4	1	2	3	4 1	1 2	3	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 Testing Production Decision Production		TEM																										

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 200)6
APPROPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT			PROJECT NU			
RDT&E,N/ BA-4	0603654/Joi	nt Service EOD I	Development		1317/EOD Div	ing 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		
LUC DID								
UIS PIP Testing				4Q	1Q-4Q	1Q-4Q	1Q-2Q	
Production Decision				70	10-40	10-10	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		

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: F	ebruary 200)6
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU			
RDT&E,N/ BA-4	0603654/Joint	Service EOD	Development		1317/EOD Div	ing Systems		
,		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
NEW U/W BREATHING APPARATUS (NUBA)					1			
Testing		1Q-4Q	1Q-3Q					
Production Decision			3Q					
Production			3Q-4Q	1Q-4Q	1Q			
DIVED AMBURDIOUS NEUTRALIZATION OVOTEM								
DIVER AMPHIBIOUS NEUTRALIZATION SYSTEM			10.40	10.40	10.00			
Testing Parising			1Q-4Q	1Q-4Q	1Q-3Q			
Production Decision					4Q 4Q	1Q-4Q	1Q-3Q	
Production					4Q	1Q-4Q	10-30	
	1		1		1		1	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603654N/Joint Se	ervice EOD Develop	oment		4023/EOD VSW M	CM/Force Protection	on UUV	
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		* 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

CLASSIFICATION:

·	ition			DATE:	
				February 2006	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBI	ER AND NAME	PROJECT NUMBER AND N	IAME	
DT&E, N / BA-4	0603654N/Joint Service EOD	Development	4023/EOD VSW MCM/Force	e Protection UUV	
) B. Accomplishments/Planned Program					
b. Accomplishments/Flamed Frogram					
		FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost		6.281	8.363	6.155	
RDT&E Articles Quantity		Various	Various	Various	
Disposal and Naval Special Clearance team r					
					1
*Starting in FY05 effort was moved from Prog	ram Element 0603654N, Project Q1317	7.			
*Starting in FY05 effort was moved from Prog	ram Element 0603654N, Project Q1317	7.			
*Starting in FY05 effort was moved from Prog	ram Element 0603654N, Project Q1317	7.			
*Starting in FY05 effort was moved from Prog	ram Element 0603654N, Project Q1317	7. FY 05	FY 06	FY 07	
*Starting in FY05 effort was moved from Prog	ram Element 0603654N, Project Q1317		FY 06 0.000	FY 07 0.000	
	ram Element 0603654N, Project Q1317	FY 05			
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity		FY 05 3.400 Various	0.000 Various	0.000 Various	
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t	0.000 Various ansmit commands to remotely p	0.000 Various	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t	0.000 Various ansmit commands to remotely p	0.000 Various	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t	0.000 Various ansmit commands to remotely p	0.000 Various	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t	0.000 Various ansmit commands to remotely p	0.000 Various	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t	0.000 Various ansmit commands to remotely p	0.000 Various	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t s in the Very Shallow V	0.000 Various ansmit commands to remotely p /ater zone.	0.000 Various laced receivers that are connected	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a mission packages and tools associated with N	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to to the sin the Very Shallow W	0.000 Various ansmit commands to remotely p /ater zone.	0.000 Various laced receivers that are connected for the connecte	d to explosive
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity This Program supports development, testing a	and fleet approval for Magneto-Inductiv	FY 05 3.400 Various e technology used to t s in the Very Shallow V	0.000 Various ansmit commands to remotely p /ater zone.	0.000 Various laced receivers that are connected	d to explosive

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2006
APPROPRIATION/BUDGET ACTIVITY PRO	OGRAM ELEMENT NUM	BER AND NAM	1E	PROJECT NUMBER AND NAME
RDT&E, N / BA-4 0603	3654N/Joint Service EOD	Development		4023/EOD VSW MCM/Force Protection UUV
(U) C. PROGRAM CHANGE SUMMARY:				
(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:

As a result of non-availability of Fleet operator to participate in Requirements Compliance Test & Evaluation (RCT&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 & 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 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.

(U) Technical:

Not applicable

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:			
								Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-4	0603654N/Join	t Service EOD	Development		4023/EOD VS	W MCM/Force	Protection UL			
(U) D. OTHER PROGRAM FUNDING SUMMARY:								То	Total	
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	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.

CLASSIFICATION:

				DATE:									
Exhibit R-3 Cost Analysis (pa	ge 1)										Februar	y 2006	
APPROPRIATION/BUDGET ACTIV	/ITY		I ELEMENT			-		ND NAM					
RDT&E, N / BA-4	•		Joint Service EOD Develo	opment	4023/E			orce Pro					
Cost Categories		Performing	Total PY s		EV 05	FY 05		FY 06		FY 07	0	Tatal	Tanat Value
	Method & Type	Activity & Location	Cost					Award Date		Award Date		Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, MD	3.843		3.372		2.812	10/05	1.913	10/06	Continuing	Continuing	or contract
Systems Engineering	WX	EODTD, IH, MD	0.000		3.169			10/05	1.970		Continuing	Continuing	
Cyclomic Engineering	1	202.2,,2	0.000		31.00	. 0, 0 .	2.0.0	. 0, 00		. 0, 00	- Communing	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:			R-1 SHOPPING	LICT	Itam Na	. 50							

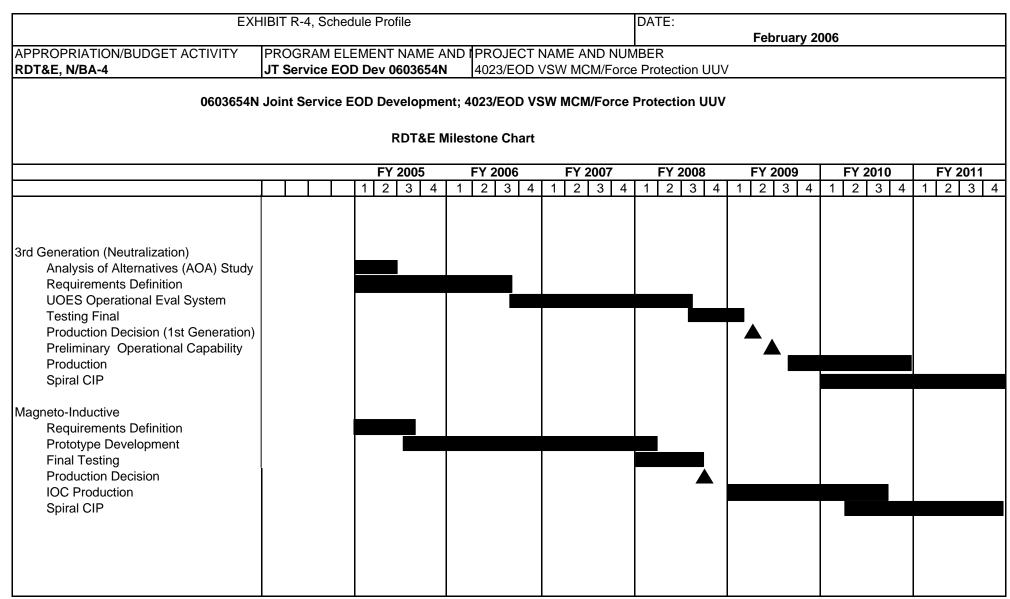
CLASSIFICATION:

		DATE:											
Exhibit R-3 Cost Analysis (page 2) APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4 Cost Categories Contract Method Activity & Performing Method Activity & PY s PROGRAM ELEMENT 0603654N/Joint Service EOD Development Prode EOD Development 4023/EOD VSW MCM/Force Prode FY 06 Award FY 06 Award											Februar	y 2006	
APPROPRIATION/BUDGET ACTIVI	TY	PROG	RAM ELEMENT		PROJE	CT NUM	IBER AI	ND NAM	1E				
				elopment					otection				
Cost Categories									FY 07	FY 07 Award	Cost to	Total	Target Value
												Cost	of Contract
Developmental Test & Evaluation			0.000						0.986		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	
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:			D. A. CLIODDINI										

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EX	HIBIT	R-4	, Sch	edu	ıle P	rofi	le										DAT	E:													\neg
	_																					Feb	rua	ry 20	006						
	PRO																														
RDT&E, N/BA-4	JT S	ervio	e EC)D I	Dev (060	3654	N	4	4023	3/EC)D \	/SW	MC	M/F	orce	Prof	tect	ion	UUV											
0603654	N Joir	nt Se	rvice	e EC	D D)ev	elopn	ner	nt; 4	023	EO	D V	/SW	MC	M/F	orce	Prto	ect	tion	UU	V										
						R	DT&E	E M	liles	tone	e Cł	hart	:																		
														FY	200	08			FY 2	2009	9		FY2	2010		FY2	011	_			
1 2 3 4 1 2 3													1	2	3	4	1	2	3	4	1	2		4	1			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							<u> </u>																								
IOC Prototype Development											L																				
IOC Fleet Testing																															
IOC Production Decision																															
IOC Production																															
Spiral CIP																															
	Ì																														

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 20	06
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA		
RDT&E,N/ BA-4	0603654/Join	t Service EOD [Development		4023/EOD VS	W MCM/Force	Protection UU\	/
,		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			
Sprial 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

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:						
							Februa	ry 2006					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME							
RDT&E, N / BA-4	A-4 0603654N/Joint Service EOD Development 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					

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justifica	tion		DATE: February 2006	
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N		
DT&E, N / BA-4	0603654N/Joint Service EOD Development	4024/SMCM Shallow and D	eep Water UUV	
B. Accomplishments/Planned Program	•	,		
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	1.777	0.000	0.000	
RDT&E Articles Quantity	Various	Various	Various	
	Element 0603502N, Suface and Shallow Water MCM; Projec	5 · 2 5, 5 · · · · · · · · · · · · · · · · ·		
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	FY 05 0.000	FY 06 0.000	0.000	
	FY 05	FY 06		
Accomplishments/Effort/Subtotal Cost	FY 05 0.000	FY 06 0.000	0.000	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:
						February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NUMBER AND N	AME
RDT&E, N / BA-4	0603654N/Join	nt Service EOI	Development		4024/SMCM Shallow and De	eep Water UUV
(U) C. PROGRAM CHANGE SUMMARY:						
(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 Contro	ols)	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	<u></u>	
Subtotal		-0.001	0.000	0.000		
(U) Schedule:						
Not applicable						
(U) Technical:						
Not applicable.						
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:			
								Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME										
RDT&E, N / BA-4	0603654N/Joi	nt Service EO	Development		Shallow and De	eep Water UU\	/			
(U) D. OTHER PROGRAM FUNDING SUMMARY:								To	Total	
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	<u>Cost</u>	

(U) E. ACQUISITION STRATEGY: *

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&E, if required, is always competitive and when feasible, production options are included.

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.

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.

^{*} Not required for Budget Activities 1,2,3, and 6

^{**} Required for DON and OSD submit only.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (paga APPROPRIATION/BUDGET ACTIV	ge 1)												February 2006		
	ITY		PROGRAM E	LEMENT			PROJE	CT NUN	/IBER A	ND NAI	ΛE		-		
RDT&E, N / BA-4			0603654N/Joi		e EOD	Development			nallow a		Water I				
Cost Categories	Contract	Performing		Total				FY 05	E) / 00	FY 06	E) / 07	FY 07			
	Method & Type	Activity & Location		PY s Cost				Award Date		Award Date	Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, N	ID.		0.000		1.512	10/04	COSI	Date	Cost	Date	Continuing		or Contract
Software Development	WX	LODID, III, N			0.000		1.012	10/04					Continuing	0.000	
Systems Engineering														0.000	
ILS														0.000	
123														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		
Remarks:															
Program Management Support	C/CFF	EDO, Alex, V	4		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:				D 1 C	HODI	PING LIST -	Itom N	2.50							

CLASSIFICATION:

									DATE:								
Exhibit R-3 Cost Analysis (pag	je 2)										Februar	ry 2006					
APPROPRIATION/BUDGET ACTIVI	TY		M ELEMENT					ND NAM									
RDT&E, N / BA-4	0		N/Joint Service EOD	Development	4024/S	MCM St	nallow a	nd Deep	Water L	JUV	T	T					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost		FY 05	FY 05 Award Date	FY 06	FY 06 Award Date		FY 07 Award Date			Target Value				
Developmental Test & Evaluation	WX	EODTD, IH, MD	0.000		0001	Date	0001	Date	0001	Date	•		or contract				
Operational Test & Evaluation	WX										9	_					
												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					
	_										,	,					
Program Management Support	WX	EODTD, IH, MD	0.000		0.265	10/04					Continuing	Continuing					
Miscellaneous	WX	Various									Continuing						
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:																	

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EXHIBIT R-4, Schedule Profile DATE:															
EXHIBIT R-4, Schedule Profile						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															
· · · · · · · · · · · · · · · · · · ·															
0603654	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															

CLASSIFICATION:

Exhibit R-4a, Schedule Detail	DATE:								
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT PROJECT NU						February 2006 JMBER AND NAME		
RDT&E,N/ BA-4					4024/SMCM Shallow and Deep Water UUV				
					FY 2008	FY 2009	FY 2010	FY 2011	
Small Shallow and Deep Water UUV Notinal CONOPS (AOA) Study		FY 2005 1Q-4Q	F1 2006	F1 2007	F 1 2006	F1 2009	F1 2010	F1 2011	
Requirments Definiton		3Q-4Q							
resquimente Bennitori		00,10							
		ļ			1				
		DINIO LIOT						· <u>-</u>	