#### **CLASSIFICATION:**

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			,	
									Febru	uary 2005		
APPROPRIATION/BUDGET ACTIVITY												
RESEARCH DEVELOPMENT TEST & EVALUA	Development											
	Prior										Total	
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program	
Total PE Cost		16.547	21.243	34.418	28.390	29.220	25.097	33.755	34.267	Continuing	Continuing	
0277/ Joint Coming FOD Systems		4 202	7 000	22 624	40.200	20.022	47 557	00 704	27.000	Continuina	Camtimusimus	
0377/Joint Service EOD Systems		4.392	7.269	23.631	19.386	20.932	17.557	26.731	27.098	Continuing	Continuing	
1317/EOD Diving System		7.634	2.400	2.296	2.764	2.815	2.810	2.866	2.920	Continuing	Continuing	
4023/VSW MCM/ Force Protection UUV		4.521	* 9.796	8.491	6.240	5.473	4.730	4.158	4.249	Continuing	Continuing	
4024/SMCM Shallow and Deep Water UUV		0.000	1.778	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	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.

<sup>\*</sup> Includes a \$3.4M Congressional Add for Magneto-Inductive Technology.

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY								
RDT&E, N / BA-4								
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	4.392	7.269	23.631	19.386	20.932	17.557	26.731	27.098
RDT&E Articles Qty	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			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	0377/Joint Service EOD Sys	etems

### (U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.831	1.284	8.287	8.163
RDT&E Articles Quantity	Various	Various	Various	Various

Develop EOD detection, identification and knowledge systems to include, the Non-Invasive Filler Identification (NFI) project, the EOD Decision Support System (EOD DSS) (formerly the Joint EOD Knowledge Technology Operational Demonstration Advanced Concept Technology Demonstration (JEOD-KTOD ACTD) project), and the Advanced Ordnance Locator project. Also, conduct Analysis of Alternatives and conduct evaluations of Commercial/Non-Developmental Items (C/NDI EOD tools/equipment).

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	2.293	3.150	3.682	4.650
RDT&E Articles Quantity	Various	Various	Various	Various

Develop access, disruption and neutralization systems to include, the Large IED Access and Disruption project, the Submunition Clearance project, and the Joint Laser Ordnance Neutralization System (JLONS). Conduct Analysis of Alternatives study for the Low Order Tools project. Also, conduct Analysis of Alternatives and conduct evaluations of Commercial/Non-Developmental Item (C/NDI) EOD tools/equipment.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.818	1.535	0.594	0.578
RDT&E Articles Quantity	Various	Various	Various	Various

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

### **CLASSIFICATION:**

	tion			DATE: February 2005	
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUI	MBER AND NAME	PROJECT NUMBER AND N		
DT&E, N / BA-4	0603654N/Joint Service EC	DD Development	0377/Joint Service EOD Sys	tems	
B. Accomplishments/Planned Program					
	FY 04	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.450	1.300	11.068	5.995	
RDT&E Articles Quantity	Various	Various	Various	Various	
	FY 04	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	FY 04 0.000	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	0.000	

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
·					February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUME	BER AND NAME	
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	0377/Joint Service EOD Systems			
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007	
Previous President's Budget					
(FY 05 President Controls):	4.528	7.339	7.520	8.508	
Current BES/President's Budget					
(FY06 President Controls):	4.392	7.269	23.631	19.386	
Total Adjustments	-0.136	-0.070	16.111	10.878	
Summary of Adjustments					
Misc Adjustments	-0.136	-0.070	16.111	10.878	
Subtotal	-0.136	-0.070	16.111	10.878	

#### (U) Schedule:

An Analysis of Alternavitves study was conducted for the Low Order Tools project during the 1ST QTR of FY04. The Low Order Tools requirement does not justify a stand alone program initiation, however it will become a module of the EOD DSS program in FY06. JLONS System Development and Demonstration and Milestone C are both extended one quarter since additional T&E is anticipated. Production will extend for several years to accommodate the other services' requirements. The requirements for Classified Project III call for two different system solutions. Therefore, the schedule shows a split after the Interim Progress Review. The more urgent solution can be achieved by FY07, but the other required solution cannot achieve production until FY 10.

### (U) Technical:

Not applicable.

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	ME
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	0377/Joint Service EOD Syste	ems

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

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Lo Complete	Cost
OPN 5509 (Funds listed in section D. are only for cost coo	152 le VN075 FOI	1574 Equipment/Sy	12496	9566	7875	5250	10150	8600	Continuing	Continuing

### (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.

For the Large IED Access & Disruption there is a dual acquisition strategy; an acquisition sub-project for commercially available Large IED tools and a full-scale development sub-project. Within each of these sub-projects there will be two tools pursued.

<sup>\*</sup> Not required for Budget Activities 1,2,3, and 6

<sup>\*\*</sup> Required for DON and OSD submit only.

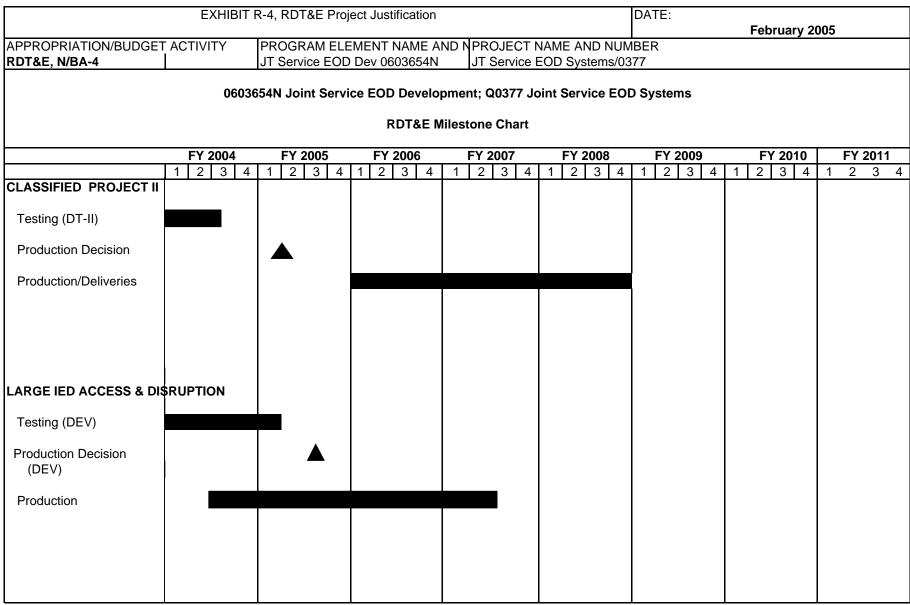
### CLASSIFICATION:

0603654N Performing T Activity & F	Fotal PY s	vice EOD De	FY 04 Award Date 10/03			D System		FY 07	FY 07 Award Date 10/06 10/06	Cost to Complete Continuing Continuing Continuing	Total Cost Continuing Continuing Continuing	Target Value of Contract
Performing T Activity & F Location C EODTD, IH, MD EODTD, IH, MD	N/Joint Serv Fotal PY's Cost 81.056 3.529	FY 04 Cost 0.769	FY 04 Award Date 10/03	0377/Join FY 05 Cost 2.392 0.200	FY 05 Award Date 10/04	FY 06 Cost 10.668 5.400	FY 06 Award Date 10/05	FY 07 Cost 7.280 4.955	Award Date 10/06 10/06	Complete  Continuing  Continuing	Cost Continuing Continuing	
Performing T Activity & F Location C EODTD, IH, MD EODTD, IH, MD	Fotal PY s Cost 81.056 3.529	FY 04 Cost 0.769 0.150	FY 04 Award Date 10/03	FY 05 Cost 2.392 0.200	FY 05 Award Date 10/04	FY 06 Cost 10.668 5.400	FY 06 Award Date 10/05	FY 07 Cost 7.280 4.955	Award Date 10/06 10/06	Complete  Continuing  Continuing	Cost Continuing Continuing	
Activity & F Location C EODTD, IH, MD EODTD, IH, MD	PY s Cost 81.056 3.529	FY 04 Cost 0.769 0.150	Award Date 10/03 10/03	2.392 0.200	Award Date 10/04 10/04	FY 06 Cost 10.668 5.400	Award Date 10/05 10/05	FY 07 Cost 7.280 4.955	Award Date 10/06 10/06	Complete  Continuing  Continuing	Cost Continuing Continuing	
Location C EODTD, IH, MD EODTD, IH, MD	81.056 3.529	0.769 0.150	10/03 10/03	2.392 0.200	10/04 10/04	10.668 5.400	10/05 10/05	7.280 4.955	10/06 10/06	Complete  Continuing  Continuing	Cost Continuing Continuing	
EODTD, IH, MD EODTD, IH, MD	81.056 3.529	0.769 0.150	10/03 10/03	2.392 0.200	10/04 10/04	10.668 5.400	10/05 10/05	7.280 4.955	10/06 10/06	Continuing Continuing	Continuing Continuing	or conniuer
EODTD, IH, MD	3.529	0.150	10/03	0.200	10/04	5.400	10/05	4.955	10/06	Continuing	Continuing	
								1				
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
l l											0.000	
											0.000	
	121.505	1.669		3.592		16.918		12.985		0.000	156.669	
EDO, Alexandria, VA	3.460										3.460	
EDO, Alexandria, VA		0.345	10/03	0.300	10/04	0.600	10/05	0.600	10/06	0.000	1.245	
										Continuing	Continuing	
											0.000	
											0.000	
											0.000	
											0.000	
	3.460	0.345		0.300		0.600		0.600		0.000	5.305	
۲		EDO, Alexandria, VA  EDO, Alexandria, VA  3.460	EDO, Alexandria, VA  EDO, Alexandria, VA  0.345  3.460  3.460  0.345	EDO, Alexandria, VA 3.460 EDO, Alexandria, VA 0.345 10/03  3.460 0.345	EDO, Alexandria, VA 3.460 EDO, Alexandria, VA 0.345 10/03 0.300 3.460 3.460 0.345 0.300	EDO, Alexandria, VA 3.460	EDO, Alexandria, VA 3.460	EDO, Alexandría, VA 3.460	EDO, Alexandria, VA 3.460	EDO, Alexandria, VA 3.460 EDO, Alexandria, VA 0.345 10/03 0.300 10/04 0.600 10/05 0.600 10/06 3.460 3.460 0.345 0.300 0.300 0.600 0.600 0.600	EDO, Alexandria, VA 3.460	EDO, Alexandria, VA 3.460

### CLASSIFICATION:

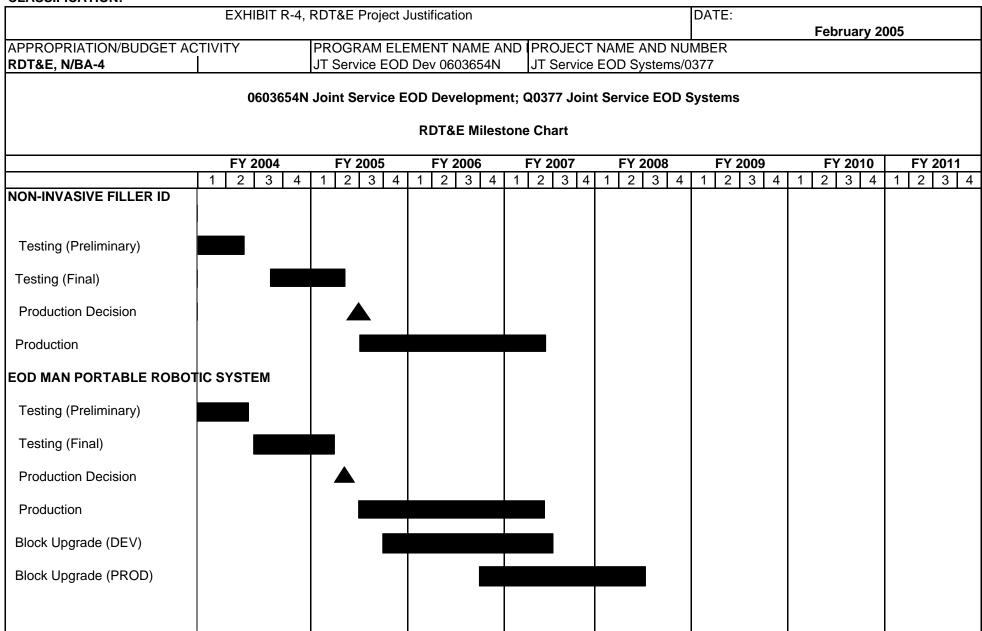
								DATE:						
Exhibit R-3 Cost Analysis (pag	ne 2)							D, (12.			Feb	ruary 2005		
APPROPRIATION/BUDGET ACTIV	TTY	PROG	RAM ELEM	ENT		PROJEC <sup>-</sup>	Γ NUMBER A	AND NAME				,		
RDT&E, N / BA-4							t Service EC							
Cost Categories	Contract Method & Type	Performing Activity & Location		FY 04 Cost		FY 05	FY 05 Award Date	FY 06	FY 06 Award Date	FY 07	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	EODTD, IH, MD	56.573	1.574	10/03	2.000	10/04	2.200	10/05	1.400	10/06	Continuing	Continuing	N/A
Operational Test & Evaluation	WR	EODTD, IH, MD	8.245							0.866	10/06		8.245	N/A
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal T&E			64.818	1.574		2.000		2.200		2.266		0.000	72.858	
	T	1	T	<b>.</b>	Γ	T		T	1	T		T		Г
Program Management Support	WR	EODTD, IH, MD	4.170	0.350		0.400	10/04	0.600		0.625	10/06	Continuing	Continuing	
Miscellaneous	Various	Various	4.236	0.454	10/03	0.977	10/04	3.313	10/05	2.910	10/06	Continuing	Continuing	
													0.000	
													0.000	
													0.000	
Subtotal Management			8.406	0.804		1.377		3.913		3.535		Continuing	Continuing	
Remarks:														
Total Cost			198.189	4.392		7.269		23.631		19.386		Continuing	Continuing	
Remarks:														

### **CLASSIFICATION:**

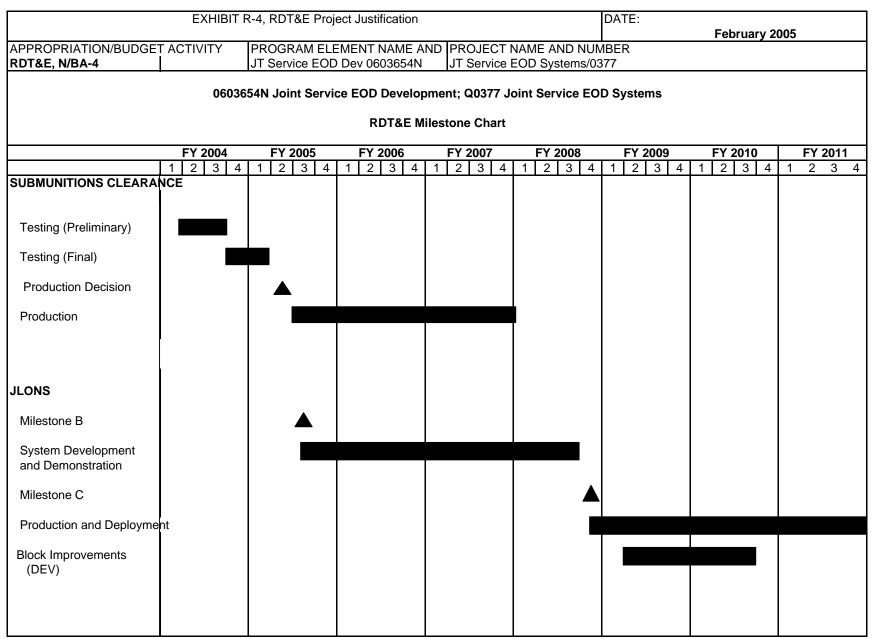


R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**



### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**

			EXH	IBIT F	R-4, R	DT8	ķΕ Pr	roject	Jus	tifica	tion									DAT		ebrua	ry 200	5
APPROPRIATION/BUDGE RDT&E, N/BA-4	T ACT	IVITY			RAM E						NUMI	BER			OJEC Servic								, , , , , , , , , , , , , , , , , , ,	
		0603	654N	N Joir	nt Ser	vice	EOI	D Dev	velo	pme	nt; Q	0377	Join	t Ser	vice l	EOD	Sys	tems						
							I	RDT8	&E IV	liles	tone	Chart												
	F	Y 2004	ı T	FY 2	2005		FY	2006	6		FY 20	007		FY 2	2008		FY	2009	9	<u> </u>	Y 20	10	FY	2011
			4 1			4	1 2		4	1		3 4	1	2	3	4	1 2		4	1		3 4		
LOW ORDER TOOLS																								
Analysis of Alternatives (AOA Study)																								
EOD DECISION SUPPORT	   SYST 	ГЕМ																						
Program Initiation						4	<b>\</b>																	
Initial Test Phase																								
Initial Production Decision									<b>\</b>															
Production																								
Increment I (DEV)																								
Increment I (PROD)																								
Increment II (DEV)																								
Increment II (PROD)																								
Increment III (DEV)																								
Increment III (PROD)																								

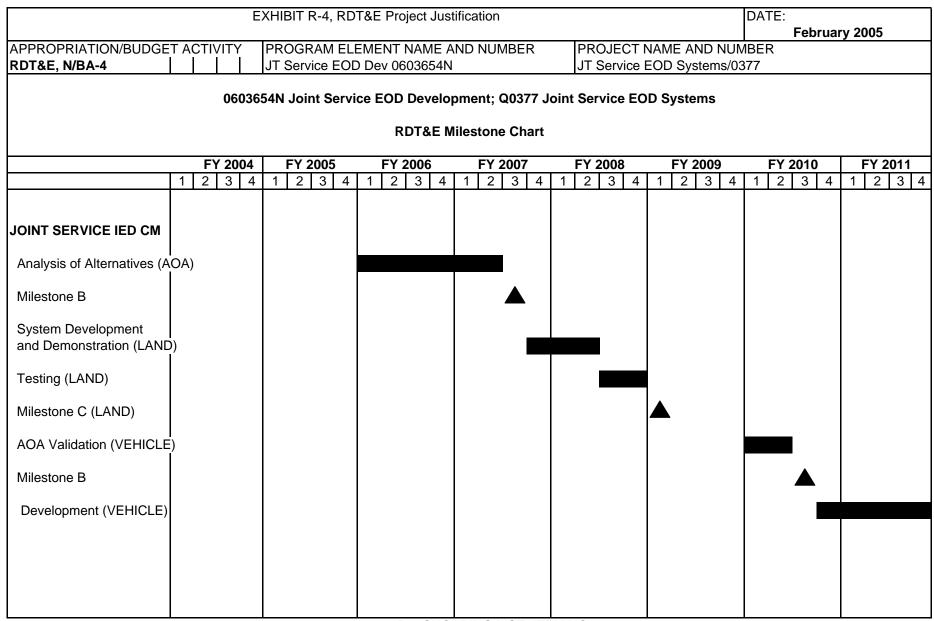
R-1 SHOPPING LIST- ITEM NO. 59

### **CLASSIFICATION:**

		E	XHIB	T R-4,	RD	Г&Е	Proje	ect J	usti	ficat	tion											DA	TE:					
																								ebru	ary	2005	5	
APPROPRIATION/BUDGET	Γ ACTI	VITY		GRAM						1 DV	MUV	BER				OJE							R					
RDT&E, N/BA-4			JT S	ervice	EOD	De	v 060	365	4N						JT :	Serv	ice E	EOD	) Sys	stem	s/03	377						
		06036	54N J	oint S	ervio	ce E	OD [	Deve	lop	mei	nt; Q	0377	7 Jc	oint	Ser	vice	ЕО	D S	yste	ems								
							RD	Т&Е	E Mi	lest	one	Cha	rt															
	F	Y 2004	F	Y 2005	5		FY 2	006		I	FY 20	007			FY :	2008			FY 2	2009	)		FY 2	010		FY	2011	ı
	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		3 4	1	1 2	2 3	4
ADVANCED ORDNANCE L	OCAT	OR		•										•														
Program Initiation											4																	
Development																												
Testing																												
Production Decision																												
Production																												

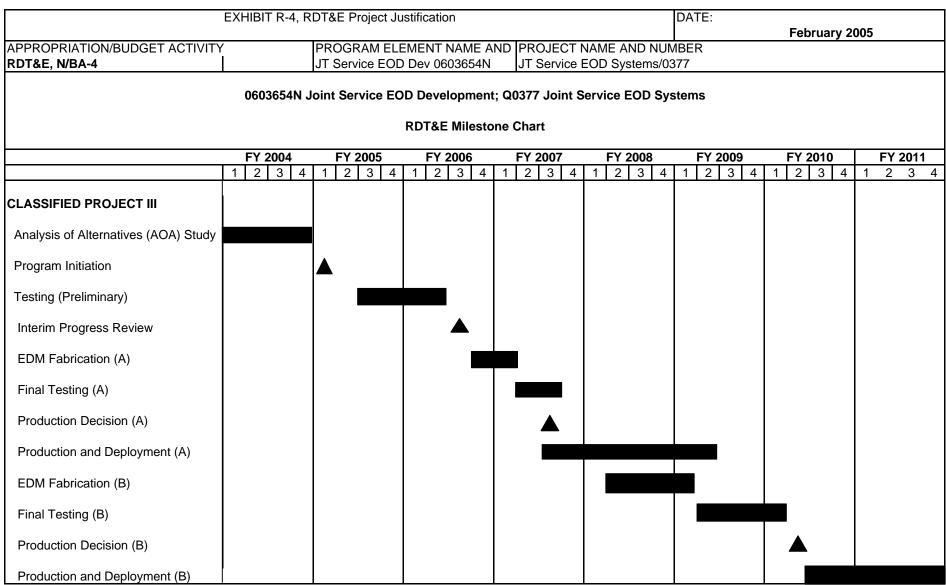
R-1 SHOPPING LIST- ITEM NO. 59

### **CLASSIFICATION:**



R-1 SHOPPING LIST- ITEM NO. 59

### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:		
							February 20	05
PPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT			PROJECT NU	MBER AND N		
RDT&E,N/ BA-4	0603654N/Joi	nt Service EOD	) Development		0377/Joint Se	rvice EOD Syst	tems	
CLASSIFIED PROJECT II	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Testing (DT-II)	1Q-3Q							
Production Decision		1Q						
Production/Deliveries			1Q-4Q	1Q-4Q	1Q-4Q			
ARGE IED ACCESS & DISRUPTION								
Testing (DEV)	1Q-4Q	1Q						
Production Decision (DEV)		3Q						
Production	3Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q				
ION-INVASIVE FILLER ID								
Testing (Preliminary)	1Q-2Q							
Testing (Final)	3Q-4Q	1Q-2Q						
Production Decision		3Q						
Production		3Q-4Q	1Q-4Q	1Q-2Q				
OD MAN PORTABLE ROBOTIC SYSTEM								
Testing (Preliminary)	1Q-2Q							
Testing (Final)	3Q-4Q	1Q						
Production Decision		2Q						
Production		2Q-4Q	1Q-4Q	1Q-2Q				
Block Upgrade (DEV)		4Q	1Q-4Q	1Q-2Q	10.00			
Block Upgrade (PROD)			4Q	1Q-4Q	1Q-2Q			
					+			<del> </del>

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:				
						February 2005				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	IMBER AND N				
RDT&E,N/ BA-4	0603654N/Joi	nt Service EOD	) Development		0377/Joint Se	rvice EOD Syst	ems			
SUBMUNITIONS CLEARANCE	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Testing (Preliminary)	2Q-3Q									
Testing (Final)	4Q	1Q								
Production Decision	70	2Q								
Production		2Q-4Q	1Q-4Q	1Q-4Q						
JLONS										
Milestone B		3Q								
System Development and Demonstration		3Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q					
Milestone C					4Q 4Q	1Q-4Q	1Q-4Q	1Q-4Q		
Production and Deployment Block Improvement (DEV)					40	2Q-4Q	1Q-4Q 1Q-3Q	1Q-4Q		
Block improvement (DEV)						2Q-4Q	14-34			
LOW ORDER TOOLS										
Analysis of Alternatives (AOA) Study	1Q									
FAN DEGICIAN CHIDDADT CVCTEM										
EOD DECISION SUPPORT SYSTEM										
Program Initiation			1Q							
Initial Test Phase			2Q-3Q		_					
Initial Production Decision			3Q							
Production			3Q-4Q	1Q						
Increment I (DEV)			3Q-4Q	1Q-4Q	1Q-2Q					
Increment I (PROD)				3Q-4Q	1Q-4Q					
Increment II (DEV)					1Q-4Q	1Q-4Q				
Increment II (PROD)						1Q-4Q	1Q-2Q			
Increment III (DEV)		ļ				3Q-4Q	1Q-4Q	1Q-2Q		
Increment III (PROD)							3Q-4Q	1Q-4Q		

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:		
						l	February 20	05
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	IMBER AND N	AME	
RDT&E,N/ BA-4	0603654N/Joi	nt Service EOD	Development		0377/Joint Se	rvice EOD Syst	ems	
ADVANCED ORDNANCE LOCATOR	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Program Initiation				3Q				
Development				3Q-4Q	1Q-4Q	1Q-3Q		
Testing						4Q	1Q-3Q	
Production Decision							3Q	
Production							4Q	1Q-4Q
JOINT SERVICE IED CM								
Analysis of Alternatives (AOA) Study			1Q-4Q	1Q-2Q				
Milestone B				3Q				
System Development and Demonstration (LAND)				4Q	1Q-2Q			
Testing (LAND)					3Q-4Q			
Milestone C (LAND)						1Q		
AOA Validation (VEHICLE)						1 3	1Q-2Q	
Milestone B (VEHICLE)							3Q	
Development (VEHICLE)							4Q	1Q-4Q
CLASSIFIED PROJECT III								
Program Initation								
Analysis of Alternatives (AOA) Study	1Q-4Q							
Program Initation		1Q						
Testing (Preliminary)		3Q-4Q	1Q-2Q					
Interim Progress Review			3Q					
EDM Fabrication (A)			3Q-4Q	1Q-2Q				
Final Testing (A)				2Q-3Q				
Production Decision (A)				3Q				
Production and Deployment (A)				3Q-4Q	1Q-4Q	1Q-2Q		
EDM Fabrication (B)					2Q-4Q	1Q		
Final Testing (B)						2Q-4Q	1Q	
Production Decision (B)							2Q	
Production and Deployment (B)							2Q-4Q	1Q-4Q

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	n						DATE:	
							Februai	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603654N/Joint Se	rvice EOD Develor	oment		1317/EOD Diving S	Systems	I I	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	7.634	2.400	2.296	2.764	2.815	2.810	2.866	2.920
RDT&E Articles Qty	Various	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:	
			F	ebruary 2005
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 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.450	0.649	0.394	1.200
RDT&E Articles Quantity	Various	Various	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 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.645	0.196	0.500	0.058
RDT&E Articles Quantity	Various	Various	Various	Various

Development of Advanced Underwater Limpet Mine equipment to enhance EOD units' ability to detect neutralize and gather inellligence on underwater limpet and special attached mines and the development of low magnetic Micro Diver Display that provides sonar input from the Underwater Imaging Systems when in dark turbid, low visibility water environments. Develop a Diver Amphibious Neutalization System (DANS) for below and above water neutalization of mines to support EOD & NSCT-1 Neutralization missions.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.313	0.000	0.250	0.100
RDT&E Articles Quantity	Various	Various	Various	Various

Develop and test a product improvement Advanced Miniature Mine PIP Sensor for the Underwater Imaging System to allow the system to conduct stand-off identification and computer aided detection and classification. Develop technology refresh improvements to the Underwater Imaging System (UIS), and Acoustic Firing System (AFS).

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification			DATE:	
				February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME	
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	1317/EOD Diving Systems		

### (U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.523	0.000	0.000	0.000
RDT&E Articles Quantity	Various	Various	Various	Various

Develop, test, and gain approval for fleet use of specialized equipment to support the Very Shallow Water Mine Countermeasures mission and CNO approved VSW MCM Detachment (USN/USMC). This also includes the development of small, affordable MCM Unmanned Underwater Vehicles.

\*Starting in FY05, this effort has been moved to Program Element 0603654N Project Q4023.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.523	1.555	1.152	1.406
RDT&E Articles Quantity	Various	Various	Various	Various

Develop a New Underwater Breathing Apparatus (NUBA) (formally known as Advanced Underwater Breathing Apparatus (UBA)) to improve underwater air and breathing capabilites. Develop a Diver Hull Inspection Navigation System to improve current capabilities in existing hull search operations.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.180	0.000	0.000	0.000
RDT&E Articles Quantity	Various	Various	Various	Various

Demonstrate operation of a UUV-based capability package for standoff, multiple MCM operations from surface MCM platorms (e.g., MHC, HSV, etc.)

\*Starting in FY05 this effort has been moved to Program Element 0603654N, Project Q4024.

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification					[	DATE:			
	T					February 2005			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	R AND NAME	ĮF	PROJECT NUME	BER AND NA	AME			
RDT&E, N / BA-4	0603654N/Joint Service EOD D	0603654N/Joint Service EOD Development 1317/EOD Divin				EOD Diving Systems			
(U) C. PROGRAM CHANGE SUMMARY:									
(U) Funding:		FY 2004	FY 2005	FY 2006	FY 2007				
Previous President's Budget (FY 05 President Controls):		7.665	2.456	2.296	2.771				
Current BES/President's Budget									
(FY06 President Controls):		7.634	2.400	2.296	2.764				
Total Adjustments		-0.031	-0.056	0.000	-0.007				
Summary of Adjustments									
Miscellaneous Adjustments		-0.031	-0.056	0.000	-0.007				
Subtotal		-0.031	-0.056	0.000	-0.007				

### (U) Schedule:

Production decision for NUBA slipped from FY05 4th QTR to FY06 3RD QTR due to additional manned UBA safety testing. Diver Hull Navigation Production Decision slipped from FY06 3QTR to FY07 1st QTR due to required additional testing.

### (U) Technical:

Not applicable.

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Februa	ry 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	EMENT NUM	BER AND NAM	1E	PROJECT NU	IMBER AND N	IAME			
RDT&E, N / BA-4		0603654N/Joi	nt Service EOI	Development		1317/EOD Div	ing Systems				
(U) D. OTHER PROGRAM FUNDING SUMMARY:											
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <u>Cost</u>	

<u> Line Item No. &amp; Name</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	<u>Cost</u>
OPN 0975	5050	3309	6408	4985	3604	3331	3039	3305	Continuing	Continuing
PANMC 0340				1773		1749		2598		

#### (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.

<sup>\*</sup> Not required for Budget Activities 1,2,3, and 6

<sup>\*\*</sup> Required for DON and OSD submit only.

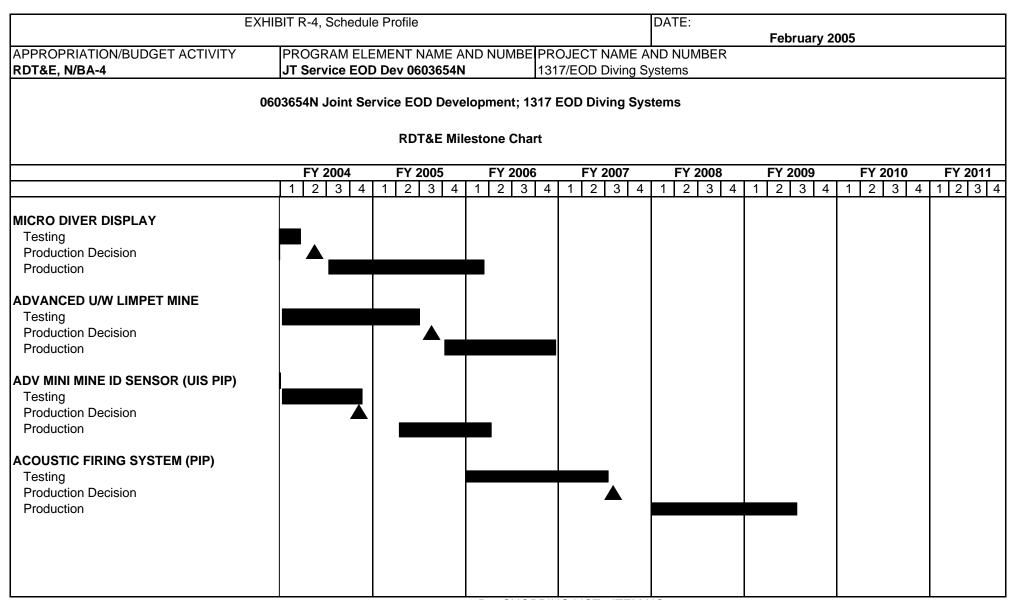
### **CLASSIFICATION:**

										DATE:				
Exhibit R-3 Cost Analysis (pag	e 1)									DATE.		Februa	ry 2005	
APPROPRIATION/BUDGET ACTIVI		PROGRAM	LELEMENT			PROJE	CT NUM	IBER AN	ND NAM	1E		1 Obraa	19 2000	
RDT&E, N / BA-4			Joint Service EOD	Develo	pment		DD Divin							
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &	PY s			FY 05	Award		Award			Cost to	Total	Target Value
	& Type	Location	Cost		Date	Cost							Cost	of Contract
Primary Hardware Development	WX	EODTD, IH, MD	30.134			1.394		0.441	10/05	0.850		Continuing	Continuing	
Software Development	WX	EODTD, IH, MD	1.541	0.250		0.147		0.254	10/05	0.500		Continuing	Continuing	
Systems Engineering	WX	EODTD, IH, MD	7.705			0.123		0.000		0.000		Continuing	Continuing	
ILS	WX	EODTD, IH, MD	11.567	0.300	10/03	0.049	10/04	0.000		0.000		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			50.947	4.678		1.713		1.285		1.740		0.000	60.363	
Program Management Support	C/CPFF	EDO, Alex, VA	3.537									0.000	3.537	
Program Management Support	C/CPFF	EDO, Alex, VA	0.000	0.500	10/03	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			3.537	0.500		0.123		0.350		0.258		0.000	4.768	
Remarks:														

### **CLASSIFICATION:**

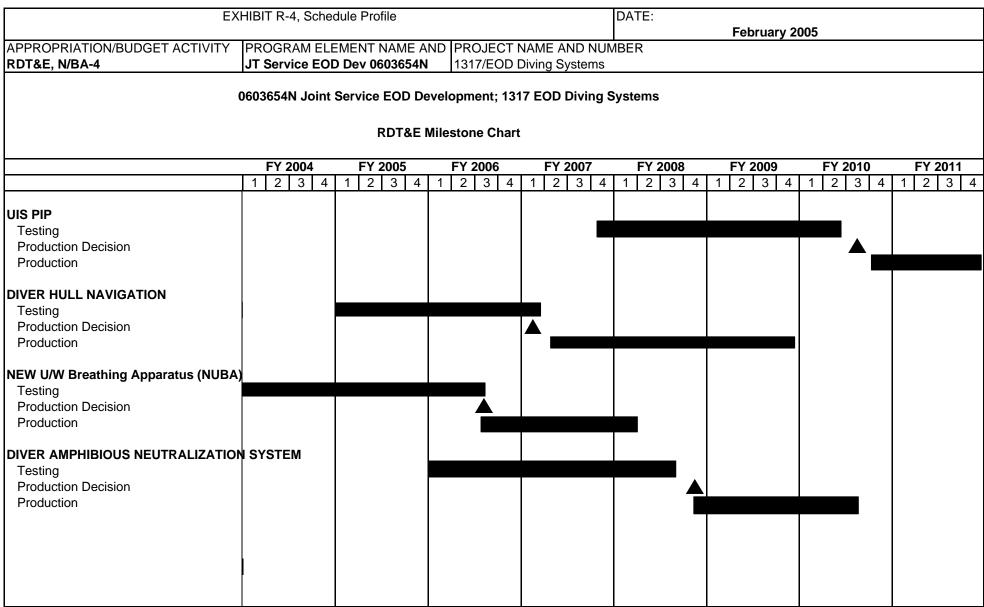
									DATE:		DATE:				
Exhibit R-3 Cost Analysis (page													Februa	ry 2005	
APPROPRIATION/BUDGET ACTIVIT	Υ	PROGRAM EI					l	CT NUM							
RDT&E, N / BA-4		0603654N/Joi		e EOD			1317/E	OD Divin	g Syste						
Cost Categories	Contract Method	Performing Activity &	Total PY s		FY 04	FY 04	FY 05	FY 05 Award	FY 06	FY 06 Award		FY 07	Cost to	Total	Target Value
	& Type	Location	Cost		Cost	Date		Date		Date		Award Date	Complete	Cost	of Contract
Developmental Test & Evaluation	WX	EODTD, IH, MD		3.470	0.550	10/03	0.147		0.050		0.000	10/06	Continuing	Continuing	
Operational Test & Evaluation	WX	EODTD, IH, MD		1.560										1.560	
														0.000	
														0.000	
														0.000	
														0.000	
0.14.4.1705				5 000	0.550		0.447		0.050		0.000		0.000	0.000	
Subtotal T&E				5.030	0.550		0.147		0.050		0.000		0.000	5.777	
	Г	T	T				1	Г	T		Т		1	Γ	
Program Management Support	WX	EODTD, IH, MD		6.117			0.221	10/04	0.275		0.360		Continuing		
Miscellaneous	WX	Various		4.625	1.106	10/03	0.196	10/04	0.336	10/05	0.406	10/06	Continuing	Continuing	
														0.000	
														0.000	
														0.000	
Subtotal Management			1	10.742	1.906		0.417		0.611		0.766		0.000	14.442	
Remarks:															
Total Cost				70.256	7.634		2.400		2.296		2.764		0.000	85.350	
Remarks:															

### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:			
							ebruary 200	)5	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NUMBER AND NAME				
RDT&E,N/ BA-4	0603654/Joint	Service EOD I	Development		1317/EOD Diving Systems				
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
MICRO DIVER DISPLAY									
Testing	1Q								
Production Decision	2Q								
Production	3Q-4Q	1Q-4Q	1Q						
ADVANCED U/W LIMPET MINE									
Testing	1Q-4Q	1Q-2Q							
Production Decision		3Q							
Production		4Q	1Q-4Q						
ADV MINI MINE ID SENSOR (UIS PIP)									
Testing	1Q-4Q								
Production Decision	4Q								
Production		2Q-4Q	1Q-2Q						
ACOUSTIC FIRING SYSTEM (PIP)									
Testing			1Q-4Q	1Q-2Q					
Production Decision				3Q					
Production					1Q-4Q	1Q-3Q			
UIS PIP									
Testing				4Q	1Q-4Q	1Q-4Q	1Q-2Q		
Production Decision							3Q		
Production							4Q	1Q-4Q	
DIVER HULL NAVIGATION									
Testing		1Q-4Q	1Q-4Q	1Q					
Production Decision				1Q-2Q					
Production				2Q-4Q	1Q-4Q	1Q-4Q			

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:		\F
ADDD ODDIATION/DUD OFT A OTIVITY	IDDOOD AME	ENTENT			IDDO IDOT NII	<b> </b>	ebruary 200	15
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E				PROJECT NUMBER AND NAME			
RDT&E,N/ BA-4		Service EOD	1		1317/EOD Div			
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
NEW U/W BREATHING APPARATUS (NUBA)								
Testing	1Q-4Q	1Q-4Q	1Q-3Q					
Production Decision			3Q					
Production			3Q-4Q	1Q-4Q	1Q			
DIVER AMPHIBIOUS NEUTRALIZATION SYSTEM								
Testing			1Q-4Q	1Q-4Q	1Q-3Q			
Production Decision					4Q			
Production					4Q	1Q-4Q	1Q-3Q	

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	R AND NAME							
RDT&E, N / BA-4	0603654N/Joint Se	ervice EOD Develop	e EOD Development 4023/EOD VSW MCM/Force Protection UUV					
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	4.521	* 9.796	8.491	6.240	5.473	4.730	4.158	4.249
RDT&E Articles Qty	Various	Various	Various	Various	Various	Various	Various	Various

<sup>\*</sup> Includes a \$3.4M Congressional Add for Magneto-Inductive Technology

### 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 Justificat	tion			DATE:	
				February 2005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME	PROJECT NUMBER AND	NAME	
RDT&E, N /BA-4	0603654N/Joint Service EC	D Development	4023/EOD VSW MCM/Ford	ce Protection UUV	
(U) B. Accomplishments/Planned Program					-
	FY 04	FY 05	FY 06	FY 07	
	_				
Accomplishments/Effort/Subtotal Cost		6.396	8.491	6.240	

This program supports development, testing and fleet approval for evolving generations of small, afforable UUV's to address validated fleet requirements in support of Explosive Ordnance Disposal and Naval Special Clearance missions areas.

\*Starting in FY05 effort was moved from Program Element 0603654N, Project Q1317.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.521	3.400	0.000	0.000
RDT&E Articles Quantity	Various	Various	Various	Various

This Program supports development, testing and fleet approval for Magneto-Inductive technology used to transmit commands to remotely placed receivers that are connected to explosive mission packages and tools associated with Naval Special Clearance Team missions in the Very Shallow Water zone.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Quantity	Various	Various	Various	Various

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification					DATE:				
					February 2005				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AN	ND NAME				
RDT&E, N / BA-4	0603654N/Joint Service EOD De	velopment		4023/EOD VSW MCM/Force Protection UUV					
(U) C. PROGRAM CHANGE SUMMARY:									
(U) Funding: Previous President's Budget	FY 2004	FY 2005	FY 2006	FY 2007					
(FY 05 President Controls): Current BES/President's Budget	4.675	6.458	6.565	4.705					
(FY06 President Controls):	4.521	9.796	8.491	6.240					
Total Adjustments Summary of Adjustments	-0.154	3.338	1.926	1.535					
Miscellaneous Adjustment	-0.154	-0.062	1.926	1.535					
Subtotal	-0.154	-0.062	1.926	1.535					

### (U) Schedule:

As a result of EOD Unmanned Underwater Vehicles Analysis of Alternatives study team and the requirements working group the 4th generation UUV production decision is now integrated with Spiral CIP of 1st generation (Search Classify and Map) program. The 2nd Generation UUV (require and ID) IOC production decision is adjusted from FY06 3rd QTR to FY07 1st QTR due to fleet availability to conduct UOES and extended technical testing. The 3rd Generation Neutralization prelimary operational capability is adjusted from FY08 3rd QTR to FY09 1st QTR due to projected production time extended. Added is the milestone schedule for the Magneto-Inductive technology Congressional Add.

### (U) Technical:

Not applicable.

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-4	0603654N/Joint Service EOD Development	4023/EOD VSW MCM/Force Protection UUV
(U) D. OTHER PROGRAM FUNDING SUMMARY:		

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost
OPN 0975	0	2305	4124	11512	6460	2774	2760	2828	Continuing	Continuing

### (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: \*\*

<sup>\*</sup> Not required for Budget Activities 1,2,3, and 6

<sup>\*\*</sup> Required for DON and OSD submit only.

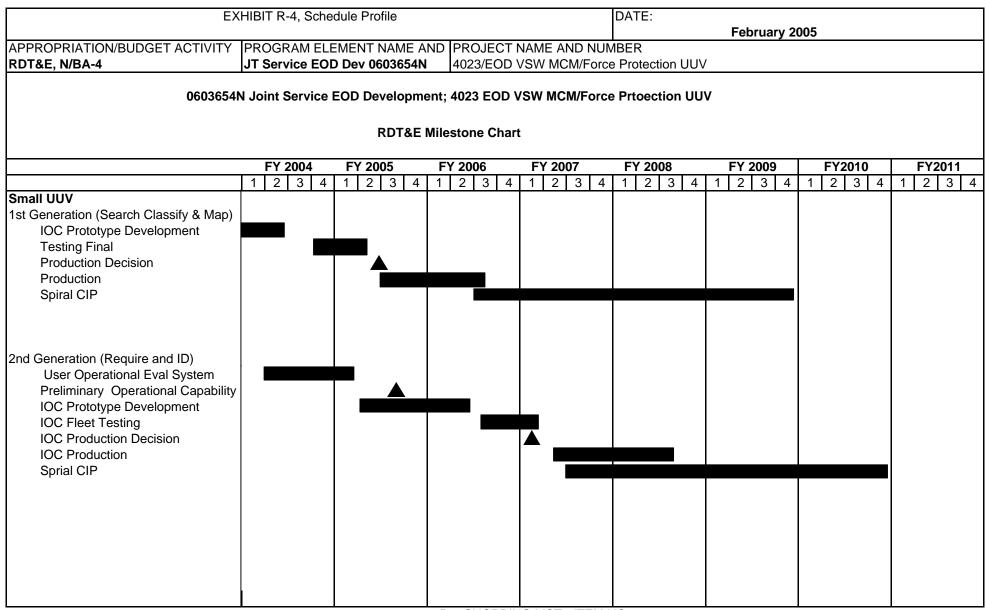
### **CLASSIFICATION:**

												DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)											Februa	ry 2005			
APPROPRIATION/BUDGET ACTIV	TTY	PROGRAM I	LEMENT			PROJE	CT NUI	MBER A	ND NAV	1E			-			
RDT&E, N / BA-4			oint Service EOD			4023/E		V MCM/	Force Pr							
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07		_			
	Method & Type	Activity & Location	PY s Cost		Award Date		Award Date		Award Date			Cost to Complete	Total Cost	Target Value of Contract		
Primary Hardware Development	WX	EODTD, IH, MD	0.000				10/04		10/05	1.998		Continuing	Continuing			
· · · · · · · · · · · · · · · · · · ·	WX	EODTD, IH, MD	0.000		10/03	3.228		2.849		1.990		Continuing	Continuing			
Systems Engineering	VVX	EODTD, In, MD	0.000	0.000	10/03	3.228	10/04	2.849	10/05	1.970	10/06	Continuing	0.000			
													0.000			
													0.000			
													0.000			
													0.000			
													0.000			
				-									0.000			
Subtotal Product Development			0.000	3.922		6.316		5.789		3.968		0.000	0.000 19.995			
Remarks:																
Program Management Support	C/CPFF	EDO, Alex, VA	0.000	0.300	10/03			<u> </u>					0.300			
Program Management Support	C/CPFF	EDO, Panama City FL	0.000			0.990	10/04	0.712	10/05	0.616	10/06	Continuing	Continuina			
Training Development												<u> </u>	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	0.300		0.990		0.712		0.616		0.000	2.618			
Remarks:			P.1 SHOP													

### **CLASSIFICATION:**

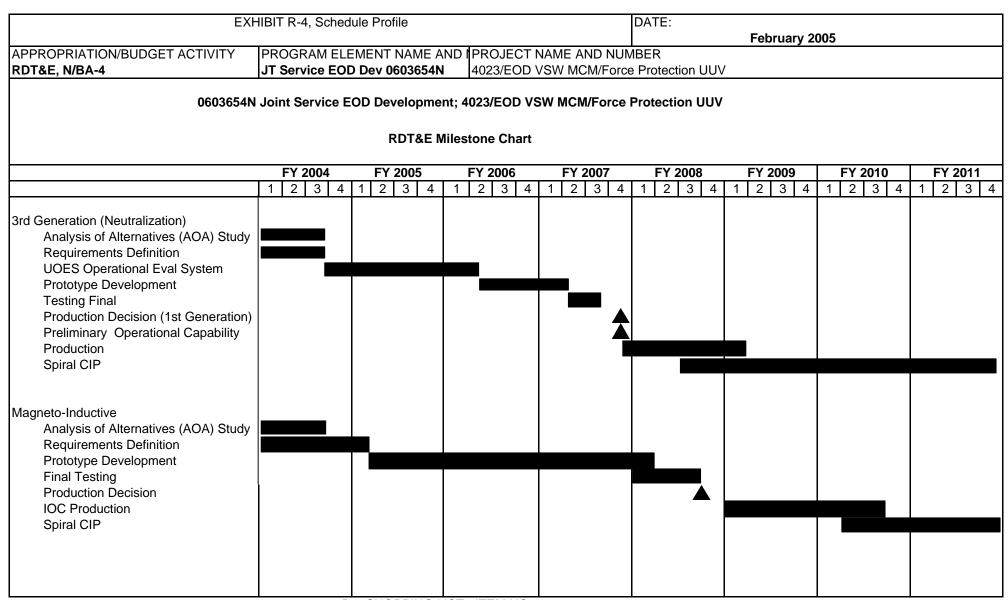
											DATE:				
Exhibit R-3 Cost Analysis (page	<u> </u>										DATE.		Februar	v 2005	
APPROPRIATION/BUDGET ACTIVIT			PROGRAM EL	EMENT			PROJE	CT NUN	/BER AI	ND NAM	1E		1 Col dal	y 2000	
RDT&E, N / BA-4			0603654N/Joir		D Develo	pment					rotection	UUV			
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost		FY 04 Award Date	FY 05	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07	FY 07 Award Date		Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	EODTD, IH, M	D	0.00	0.000	10/03	1.710		1.180	10/05	0.986	10/06	Continuing	Continuing	
Operational Test & Evaluation	WX	EODTD, IH, M	D	0.00	0.000	10/03	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				0.00	0.000		2.000		1.470		1.238		0.000	4.708	
Program Management Support	WX	EODTD, IH, M	D	0.00	0.000	10/03	0.490	10/04	0.370		0.310	10/06	Continuing	Continuing	
Miscellaneous	WX	Various		0.00	0.299	10/03	0.000	10/04	0.150	10/05	0.108	10/06	Continuing	Continuing	
														0.000	
														0.000	
														0.000	
Cultitatal Managarana				0.00	0 000		0.400		0.500		0.440		0.000	0.000	
Subtotal Management		1		0.00	0.299		0.490		0.520		0.418		0.000	1.727	
Remarks:															
Total Cost				0.00	0 4.521		9.796		8.491		6.240		0.000	29.048	
Remarks:															

### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**



R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail			DATE: <b>February 2005</b>					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU			
RDT&E,N/ BA-4	0603654/Joint	Service EOD I	Development		4023/EOD VS	W MCM/Force	Protection UU\	/
,	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1st Generation Small UUV (Search, Classify & Map)								
IOC Prototype Development	1Q-2Q							
Testing Final	3Q-4Q	1Q-2Q						
Production Decision		3Q						
Production		3Q-4Q	1Q-3Q					
Spiral CIP			3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q		
2nd Generation (Require and ID)								
UOES Operational Eval System	2Q-4Q	1Q						
Preliminary Operational Capability		3Q						
IOC Prototype Development		2Q-4Q	1Q-2Q					
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	
Brd Generation (Neutralization)								
Analysis of Alternatives (AOA) Study	1Q-3Q							
Requirements Definition	1Q-3Q							
UOES Operational Eval System	4Q	1Q-4Q	1Q-2Q					
Protype Development		-1 -1	2Q-4Q	1Q-2Q				
Testing Final			-, -,	2Q-3Q				
Production Decision (1st Generation)				4Q				
Preliminary Operational Capability				4Q				
Production				4Q	1Q-4Q	1Q		
Sprial CIP					3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
·								
/lagneto-Inductive					1			
Analysis of Alternatives (AOA) Study	1Q-3Q							
Requirements Definition	1Q-4Q	1Q						
Protoype Development		2Q-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:				
		February 2005									
APPROPRIATION/BUDGET ACTIVITY											
RDT&E, N / BA-4	0603654N/Joint Se	ervice EOD Develor	oment		4024/SMCM Shall	ow and Deep Wate	r UUV				
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
Project Cost	0.000	1.778	0.000	0.000	0.000	0.000	0.000				
RDT&E Articles Qty	E Articles Qty Various Various Various Various Various Various										

Current BES/President's Budget

### 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 abroad various SMCM platforms. Equipment includes Launch Recovery Sub-Systems and associated systems support equipment.

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justifica	ation			DATE: February 2005	
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMB	BER AND NAME	PROJECT NUMBER AND N		
T&E, N / BA-4	0603654N/Joint Service EOD		4024/SMCM Shallow and Do	eep Water UUV	
B. Accomplishments/Planned Program					
	FY 04	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.000	1.778	0.000	0.000	
RDT&E Articles Quantity	Various	Various	Various	Various	
·	Current BES/President's Budge	et			
*Starting in FY06 effort excuted in Program E	lement 0603502N, Project 3123 SMCI	VI Shallow & Deep Wate	er UUV.		
*Starting in FY06 effort excuted in Program E	lement 0603502N, Project 3123 SMCI	M Shallow & Deep Wate	er uuv.		
*Starting in FY06 effort excuted in Program E	lement 0603502N, Project 3123 SMCP	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	FY 04 0.000		FY 06 0.000	FY 07 0.000	
*Starting in FY06 effort excuted in Program E  Accomplishments/Effort/Subtotal Cost  RDT&E Articles Quantity	FY 04	FY 05	FY 06	_	
Accomplishments/Effort/Subtotal Cost	FY 04 0.000	FY 05 0.000	FY 06 0.000	0.000	

### CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification					DATE:	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	T <sub>1</sub>	PROJECT NUMBER A	ND NAME	February 2005
						11.177
DT&E, N / BA-4	0603654N/Joint Service EOD Dev	reiopment	Į,	4024/SMCM Shallow a	na Deep water t	JUV
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding: Previous President's Budget	FY 2004	FY 2005	FY 2006	FY 2007		
(FY 05 President Controls): Current BES/President's Budget	0.000	1.794	1.064	1.765		
(FY06 President Controls):	0.000	1.778	0.000	0.000		
Total Adjustments	0.000	-0.016	-1.064	-1.765		
Summary of Adjustments		0.040	4 00 4	4.705		
Miscellaneous Adjustment Subtotal	0.000	-0.016 -0.016	-1.064 -1.064	-1.765 -1.765		
(U) Schedule:						
Not Applicable						
(U) Technical:						
Not applicable.						

#### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification	DATE:										
									Februa	ary 2005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUMI	BER AND NAM	IE	PROJECT NU	MBER AND N	AME				
RDT&E, N / BA-4		0603654N/Joir	nt Service EOD	Development		4024/SMCM S	Shallow and De	eep Water UUV			
(U) D. OTHER PROGRAM FUNDING SUMMARY:											
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <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 initiatives, 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.

<sup>\*</sup> Not required for Budget Activities 1,2,3, and 6

<sup>\*\*</sup> Required for DON and OSD submit only.

### **CLASSIFICATION:**

												DATE:				
Exhibit R-3 Cost Analysis (pag	e 1)													February 2005		
APPROPRIATION/BUDGET ACTIVIT	TY		PROGRAM E	LEMEN	Τ			PROJE	CT NU	MBER A	AND NAM	ΛE		-		
RDT&E, N / BA-4			0603654N/Joi		ce EOD			4024/S		nallow a	and Deep	Water				
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost		FY 04	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date		Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, M	D		0.000			1.513	10/04					Continuing	Continuing	
Software Development															0.000	
Systems Engineering															0.000	
ILS															0.000	
															0.000	
															0.000	
															0.000	
															0.000	
															0.000	
															0.000	
															0.000	
Subtotal Product Development					0.000	0.000		1.513		0.000	)	0.000		0.000	1.513	
Remarks:																
Program Management Support	C/CFF	EDO, Alex, VA	1		0.000										0.000	
Program Management Support	C/CFF	EDO, Alex, VA	Λ.		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	0.000		0.000		0.000	)	0.000		0.000	0.000	
Remarks:					01100											

### **CLASSIFICATION:**

												DATE:				
Exhibit R-3 Cost Analysis (pag														Februar	ry 2005	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT PROJECT NUMBER AND NAI							ME .						
RDT&E, N / BA-4	Ta	In	0603654N/Joi		e EOD						nd Deep			T	T	1
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost		FY 04	FY 04 Award Date	FY 05		FY 06	FY 06 Award Date	FY 07	FY 07 Award Date		Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	EODTD, IH, M	D		0.000									Continuing	Continuing	
Operational Test & Evaluation	WX														0.000	
															0.000	
															0.000	
															0.000	
															0.000	
															0.000	
Subtotal T&E					0.000	0.000		0.000		0.000		0.000		0.000	0.000	
	I	I									ı					Γ
Program Management Support	WX	EODTD, IH, M	D			0.000			10/04					Continuing		
Miscellaneous	WX	Various			0.000	0.000		0.162	10/04					Continuing	Continuing	
															0.000	
															0.000	
	1														0.000	
Subtotal Management					0.000	0.000		0.265		0.000		0.000		0.000		
Remarks:											•					
Total Cost					0.000	0.000		1.778		0.000		0.000		0.000	1.778	
Remarks:																

### **CLASSIFICATION:**

E	XHIBIT R-4, Sche	edule Profile			DATE:						
	•					February 2	005				
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NAME AND PROJECT NAME AND NUMBER											
RDT&E, N/BA-4 JT Service EOD Dev 0603654N 4024/SMCM Shallow and Deep Water UUV											
0603654N Joint Service EOD Development; 4024 SMCM Shallow and Deept Water UUV											
RDT&E Milestone Chart											
FY 2004 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	1 2 3 4			
SMCM Shallow & Deept Water UUV Notional CONOPS (AOA) Study Requirements Definition											

R-1 SHOPPING LIST - ITEM NO. 59

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:		
						ļ i	February 20	05
APPROPRIATION/BUDGET ACTIVITY			PROJECT NU	IMBER AND NAME				
RDT&E,N/ BA-4	0603654/Joint	Service EOD [	Development	4024/SMCM Shallow and Deep Water UUV				
Small Shallow and Deept Water UUV Notinal CONOPS (AOA) Study	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Notinal CONOPS (AOA) Study	1Q-4Q	1Q-4Q						
Requirments Definiton		3Q-4Q						