UNCLASSIFIED

EXHIBIT R	-2, RDT&E B	udget Item J	ustification				DATE:					
								Jui	ne 2001			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NO	MENCLATURE						
RESEARCH DEVELOPMENT TEST & EVALUA	TION, NAVY	/BA-4			Joint Service I	EOD Developm	nent/0603654N	N				
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost		
Total PE Cost	10.821	14.546	12.918						Cont.	Cont.		
Joint Service EOD Systems/Q0377	5.848	7.533	6.069						Cont.	Cont.		
EOD Diving System/Q1317	4.973	7.013	6.849						Cont.	Cont.		
Quantity of RDT&E Articles	Various	Various	Various	Various	Various	Various	Various	Various				

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 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.

	FY 2000	FY 2001	FY 2002
FY 2001 President's Budget:	11.107	13.131	12.876
Appropriated Value:	11.168	14.681	
Adjustment to FY 2000/2001 Appropriated Value/			
FY2001 Presidents Budget:			
a. SBIR Adjustment	-0.227		
b. General Adjustments	-0.120	-0.135	0.042
FY 2002 PRES Budget Submit:	10.821	14.546	12.918

Funding: FY 00 and FY 01 decreases are due to general adjustments. FY 02 increase is due to minor pricing adjustments.

Schedule: Not applicable for Q0377 or Q1317.

Technical: Not applicable.

R-1 SHOPPING LIST - Item No. 71 - 1 of 71 - 18

UNCLASSIFIED

EXHI	BIT R-2a, RDT&I	E Project Ju	stification				DATE:			
								Ju	ne 2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NAM	IE AND NUMB	ER	PROJECT NA	ME AND NUM	MBER			
RDT&E, N/BA-4	JT Service	EOD Deve	lopment/060	03654N	JT Service EC	DD Systems/Q	0377			
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost	5.848	7.533	6.069							
RDT&E Articles Qty	Various	Various	Various							

- A. Mission Description and Budget Item Justification: Provides Explosive Ordnance 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).
- (U) PROGRAM ACCOMPLISHMENTS AND PLANS:
- 1. FY2000 ACCOMPLISHMENTS:
- (\$.900) Obtained Milestone III decision for Lightweight Disposable Disrupter (LIDD) project.
- (\$3.240) Continued development of the Classified Project II, Small Caliber Dearmer (SCD) and Standoff Disrupter (SD) projects.
- (\$1.308) Initiated the Large Improvised Explosive Device (IED) Access and Disruption project.
- (\$.400) Conducted Analysis of Alternative studies for the Explosive Safe/Arm (ESA) Monitor and EOD Incident Site C4 (ISC4) System projects.
- 2. FY2001 PLAN:
- (\$1.900) Obtain approval for full rate production for Small Caliber Dearmer project and the Standoff Disrupter UXO and Standoff Disrupter IED projects.
- (\$3.425) Continue development of Large IED Access and Disruption, Classified Project II and initiate the EOD ISC4 System project.
- (\$.500) Conduct Analysis of Alternatives studies in the areas of submunitions clearance and hand held ordnance locator (Advanced Ordnance Locator).
- (\$1.550) Develop and test improvements to the Remote Ordnance Neutralization System (RONS).
- (\$.158) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.
- 3. FY 2002 PLAN:
- (\$3.200) Continue Classified Project II, Large IED Access & Disruption and EOD ISC4 projects.
- (\$2.369) Initiate Advanced Ordnance Locator (AOL), Non-invasive Filler Identification (NFI), and EOD Man Portable Robotic System (MPRS) projects.
- (\$.500) Conduct Analysis of Alternative studies in the area of submunitions clearance. Conduct evaluations of Commercial/Non-Developmental Item (C/NDI) EOD tools & equipment.

R-1 SHOPPING LIST - Item No. 71 - 2 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

UNCLASSIFIED

	EXHIBIT R	-2a, RDT&E	Project Just	tification			1	DATE:				
									June	2001		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NAME	AND NUMBE	R	PROJECT NAM	IE AND NUM	BER	ER .			
RDT&E, N/BA-4		JT Service I	EOD Develo	pment 060	3654N	JT Service EO	Systems/Q0	377				
B. Other Program Funding Summa	ıry:								To	Total		
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Cost		
OPN 5509 PANMC 0340	1.568 0.234	0.614 0.563	1.458						CONT. 0.000	CONT. 0.797		

- C. 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.
- D. Schedule Profile: See Attached.

R-1 SHOPPING LIST - Item No. 71 - 3 of 71 - 18

Exhibit R-2a, RDT&E Project Justification (Exhibit R-2a, page 3 of 18)



UNCLASSIFIED CLASSIFICATION:

E	XHIBIT R-2a, RD	T&E Project Jus	stification		D	ATE:	l 2004							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	EMENT NAME /	ND NI IMBER	PRO IECT I	<u> </u> NAME AND NUME	IFR	June 2001							
RDT&E, N/BA-4	JT Service EOI				EOD Systems/Q03									
No lat, Non 4	OT COLVIDE EOL	<u> Development</u>	000000414	TOT CCIVICE	LOD Cystems/Que	,,,,,								
	0603654N Joi	int Service EOD	Development;	Q0377 Joint Se	ervice EOD Syste	ms								
RDT&E Milestone Chart FY 2000 FY 2001 FY 2003 FY 2004 FY 2005 FY 2006 FY 2														
FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006														
LIDD	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						
Testing (DT-IIB/OT-II)														
Testing (OPEVAL)														
Milestone III														
Production Contract Award														
Production/Deliveries														
CLASSIFIED PROJECT II Milestone 0	A													
Testing														
Milestone I/II			A											
EDM Fabrication														
Testing (DT-II)														
Milestone III														
Production/Deliveries														
1	1		NO LIGHT II											

R-1 SHOPPING LIST - Item No. 71 - 4 of 71 - 18

Exhibit R-2a, RDT&E Project Justification (Exhibit R-2a, page 4 of 18)

E	EXHIBIT R-2a, RD	T&E Project Jus	stification			DATE:								
	·						June 2001							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE				NAME AND NUM									
RDT&E, N/BA-4	JT Service EOD	Development	0603654N	JT Service E	EOD Systems/Q0)377								
	0603654N Joi	nt Service EOD	Development;	Q0377 Joint Se	rvice EOD Syste	ems								
RDT&E Milestone Chart														
FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007														
SMALL CAL DEARMER (SCD) Testing (Preliminary)	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						
Testing (Final)														
Production Decision		A												
Production / Deliveries														
STANDOFF DISRUPTER (SD) Testing (DT-I)														
RDT&E Contracts Award	A													
UXO SD Testing														
UXO SD Production Decision														
UXO SD Production Option Award/Production														
IED SD Testing														
IED SD Production Decision														
IED SD Prod. Option Award/Production														

R-1 SHOPPING LIST - Item No. 71 - 5 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 5 of 18)

Į į	EXHIBIT R-2a, RD	DT&E Project Ju	stification		DATE:	June 2001	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4	PROGRAM ELI				NAME AND NUMBER EOD Systems/Q0377	outle 200	
	0603654N Jo	int Service EOI	Development; Q	0377 Joint Se	rvice EOD Systems		
		F	RDT&E Milestone	Chart			
	FY 2000	FY 2001	FY 2002	FY 2003		2005 FY 2006	FY 2007
LARGE IED ACCESS & DISRUPTION	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
Program Initiation							
Testing (Comm./NDI)							
Production Decision (Comm./NDI)							
Production Contract/Deliveries							
Concept Exploration (DEV)							
Intermin Program Review (IPR)			A				
Testing (DEV)							
Production Decision (DEV)							
Production							
EOD ISC4 SYSTEM Analysis of Alternatives (AOA) Study							
Program Initiation							
Testing (Preliminary)							
Testing (Final)							
Production Decision							
Production			INIC LIGT. Have No	74 0 - 174			

R-1 SHOPPING LIST - Item No. 71 - 6 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 6 of 18)

E	XHIBIT R-2a, RI	DT&E Project Ju	stification			DATE:	June 2001	
APPROPRIATION/BUDGET ACTIVITY		EMENT NAME A			NAME AND NUME		Vulle 2001	
RDT&E, N/BA-4	JT Service EO	D Development	0603654N	JI Service E	EOD Systems/Q03	377		
	0603654N Jo	int Service EOI	Development; C	00377 Joint Se	ervice EOD Syste	ms		
		F	RDT&E Milestone	Chart				
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
ADVANCED ORDNANCE LOCATOR	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
Anaylsis of Alternatives (AOA) Study								
Program Initiation								
Testing (Prelimary)								
Intermin Program Review (IPR)								
Testing DT-II								
Production Decision								
Production/Deliveries								
NON-INVASIVE FILLER ID Program Initiation								
Testing (Preliminary)								
Testing (Final)								
Production Decision								
Production								

R-1 SHOPPING LIST - Item No. 71 - 7 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 7 of 18)

	EXHIBIT R-2a, RI	DT&E Project Ju	stification			DATE:						
							June 2001					
APPROPRIATION/BUDGET ACTIVITY		EMENT NAME A			NAME AND NU							
RDT&E, N/BA-4	JT Service EO	D Development	0603654N	JT Service I	EOD Systems/Q	0377						
	0603654N Jo	oint Service EOI	Development;	Q0377 Joint Se	ervice EOD Sys	tems						
RDT&E Milestone Chart												
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007				
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4				
EOD MAN PORTABLE ROBOTIC SYST Program Initiation Testing (Preliminary) Testing (Final) Production Decision Production	TEM											
			ĺ				ĺ	1				

R-1 SHOPPING LIST - Item No. 71 - 8 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 8 of 18)

UNCLASSIFIED

Exhibit R-3 Cost Analysis (pa	age 1)									June 200	1	
APPROPRIATION/BUDGET ACTI	VITY	PRO	GRAM ELEMENT			PROJECT N	IAME AND NU	IMBER				
RDT&E, N/BA-4		0603	654N			Joint Service	EOD System	s/Q0377				
Cost Categories	Contract	Performing	Total		FY 00		FY 01		FY 02			
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Hardware Development	WR	EODTD, IH, MD	71.567	2.484	10/99	3.338	10/00	2.102	10/01	Continuing	Continuing	N/A
Software Development	WR	EODTD, IH, MD	3.304			0.075	10/00			Continuing	Continuing	N/A
ILS	WR	EODTD, IH, MD	33.360	0.910	10/99	0.850	10/00	0.900	10/01	Continuing	Continuing	N/A
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			108.231	3.394		4.263		3.002		Continuing	Continuing	N/A
Remarks:												
	C/CDEE	Dunamic Systems	lov VA 2 240	0.240	01/00	0.250	01/01	0.260	01/02	Continuing	Continuing	N/A
	C/CPFF	Dynamic Systems, A	slex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing	Continuing	N/A
	C/CPFF	Dynamic Systems, A	ulex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing	Continuing 0.000	N/A
	C/CPFF	Dynamic Systems, A	slex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing		N/A
	C/CPFF	Dynamic Systems, A	slex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing	0.000	N/A
	C/CPFF	Dynamic Systems, A	slex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing	0.000 0.000	N/A
Program Management Support	C/CPFF	Dynamic Systems, A	llex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing	0.000 0.000 0.000	N/A
Program Management Support Subtotal Support	C/CPFF	Dynamic Systems, A	Nex, VA 2.340	0.340	01/00	0.250	01/01	0.260	01/02	Continuing 0.000	0.000 0.000 0.000 0.000	N

R-1 SHOPPING LIST - Item No. 71 - 9 of 71 - 18

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 9 of 18)

UNCLASSIFIED

								DATE:				
Exhibit R-3 Cost Analysis (pa	ige 2)									June 200	1	
APPROPRIATION/BUDGET ACTIV	/ITY	PROGR/	AM ELEMENT			PROJECT I	NAME AND NU	JMBER				
RDT&E, N/BA-4		060365	34N			Joint Servic	e EOD System	s/Q0377				
Cost Categories	Contract	Performing	Total		FY 00		FY 01		FY 02			
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Target Valu
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Developmental Test & Evaluation	WR	EODTD, IH, MD	50.108	1.050	10/99	1.895	10/00	1.650	10/01	Continuing	Continuing	N/A
Operational Test & Evaluation	WR	EODTD, IH, MD	8.135	0.110	10/99					Continuing	Continuing	N/A
											0.000	
											0.000	
Subtotal T&E			58.243	1.160		1.895		1.650		Continuing	Continuing	N/A
Program Management Personnel Miscellaneous	WR Various	EODTD, IH, MD Various	3.220 1.566	0.225 0.729	10/99 02/00	0.225	10/00	0.250 0.907	10/01 02/02	Continuing Continuing	Continuing Continuing	N/A N/A
iviiscellarieous	Various	various	1.500	0.729	02/00	0.900	02/01	0.307	02/02	Continuing	0.000	IN/A
											0.000	
											0.000	
											0.000	
Subtotal Management			4.786	0.954		1.125		1.157		Continuing	Continuing	N/A
Remarks:												
Total Cost			173.600	5.848		7.533		6.069		Continuing	Continuing	N/A
Remarks:												

R-1 SHOPPING LIST - Item No. 71 - 10 of 71 - 18

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 10 of 18)

UNCLASSIFIED

EXHIB	IT R-2a, RDT&I	E Project Ju	stification				DATE:			
								Ju	ne 2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NAM	IE AND NUMB	ER	PROJECT NA	ME AND NU	/IBER			
RDT&E, N/BA-4	JT Service	EOD Deve	opment/060	03654N	EOD Diving S	ystems/Q1317	7			
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost	4.973	7.013	6.849						Cont.	Cont.
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. Provides support for the Navy's high priority mission of Very Shallow Water (VSW) mine countermeasures, including clandestine reconnaissance, in support of amphibious operations. This also includes the development of small, affordable MCM Unmanned Underwater Vehicles. (U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY2000 ACCOMPLISHMENTS:

- (\$.370) Continued developing equipment which improves diver capability and endurance.
- (\$.853) Continued developing a non-magnetic Acoustic Firing System.
- (\$.879) Continued developing non-magnetic Underwater Imaging System to detect objects in the water column.
- (\$.434) Initiated the development of diving tables for the MK 16 MOD 0 Underwater Breathing Apparatus.
- (\$2.437) Continued to 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).

2. FY2001 PLAN:

- (\$.181) Test & gain approval for Navy use (ANU) of EOD diving, Commercial/Non-Developmental Items (C/NDI).
- (\$.885) Continue developing a non-magnetic Acoustic Firing System.
- (\$.709) Obtain production decision for Underwater Imaging System.
- (\$.564) Complete the development of diving tables for the MK 16 MOD 0 Underwater Breathing Apparatus.
- (\$.083) Conduct Analysis Of Alternatives for equipment to enhance the divers ability to detect, neutralize and gather intelligence on underwater limpet and special attach mines.
- (\$4.435) Continue to 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 Systems & UUV Modules for VSW MCM & EOD Detachments.

R-1 SHOPPING LIST - Item No. 71 - 11 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 11 of 18)

UNCLASSIFIED

E	(HIBIT R-2a, RDT&E Project Justification		DATE:
			June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER	PROJECT NAME AND NUM	1BER
RDT&E, N/BA-4	JT Service EOD Development/0603654N	EOD Diving Systems/Q1317	,

(\$.156) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. FY2002 PLAN:

- (\$.212) Continue to test & gain approval for Navy use (ANU) of EOD diving, Commercial/Non-Developmental Items (C/NDI).
- (\$.400) Obtain Milestone III decision for the Acoustic Firing System.
- (\$.600) Initiate development of Advanced Underwater Limpet Mine equipment to enhance EOD units' ability to detect neutralize and gather intelligence on underwater limpet and special attach mines.
- (\$.150) Initiate development of Advanced Underwater Breathing Apparatus.
- (\$.600) Initiate development of low magnetic Mirco Diver Display that provides sonar input from the Underwater Imaging Systems when in dark turbid, low visibility water environments.
- (\$.250) Initiate the test and evaluation and gain approval for production for a commercial off-the shelf Emergency Evacuation Diver System to assist the forward deployed EOD ARG/CV battle group for transportation of diving casualties.
- (\$.450) Initiate the development and test of a product improvement Advanced Miniature Mine PIP Sensor to the Underwater Imaging System to allow the system to conduct stand-off identification and computer aided detection and classification.
- (\$4.169) Continue to 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.

R-1 SHOPPING LIST - Item No. 71 - 12 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

UNCLASSIFIED

(Exhibit R-2a, page 12 of 18)

UNCLASSIFIED

	EXHIBIT F	R-2a, RDT&E	Project Just	tification				DATE:		
									June	2001
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NAME	AND NUMBE	:R	PROJECT NAM	IE AND NUM	BER		
RDT&E, N/BA-4		JT Service E	EOD Develo	pment/060	3654N	EOD Diving Sy	stems/Q1317			
B. Other Program Funding Summary										
									To	Total
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Cost
PANMC 0340			1.400							2.400
OPN '0975	2.195	3.247	5.000						Cont.	Cont.
OPN 5509		1.394	2.176							4.841

C.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.

D. Schedule Profile: See Attached.

R-1 SHOPPING LIST - Item No. 71 - 13 of 71 - 18

UNCLASSIFIED

	EXHIBIT R-2a, RD	DT&E Project Jus	tification			DATE:						
							June 2001					
APPROPRIATION/BUDGET ACTIVITY		EMENT NAME A			NAME AND NUM							
RDT&E, N/BA-4	JT Service EO	D Development	0603654N	EOD Diving	Systems/Q1317	• 						
0603654N Joint Service EOD Development; Q1317 EOD Diving Systems												
	RDT&E Milestone Chart											
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007				
	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				
ACOUSTIC FIRING SYSTEM Testing (DT-IIA Phase II)												
Testing (DT-IIB)												
Testing (DT-IIC/OT) Techeval/Opeval												
Milestone III												
Production												
MIRCO DIVER DISPLAY Testing												
Production Decision												
Production												
UNDERWATER IMAGING SYSTEM Testing		-										
Production Decision												
Production												

R-1 SHOPPING LIST - Item No. 71 - 14 of 71 - 18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 14 of 18)

E	XHIBIT R-2a, RD	T&E Project Jus	tification			DATE:		
				T			June 2001	
APPROPRIATION/BUDGET ACTIVITY		MENT NAME A			NAME AND NUM			
RDT&E, N/BA-4	JI Service EOI	D Development	0603654N	EOD Diving	Systems/Q1317	•		
0603654N Joint Service EOD Development; Q1317 EOD Diving Systems								
		R	DT&E Mileston	e Chart				
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
	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
VERY SHALLOW WATER Primary Hardware Development								
ADVANCED U/W LIMPET MINE AOA								
Project Initiation								
Testing				l				
Production Decision								
Production								
EMERGENCY EVACUATION DIVER SYSTEM Testing								
Production Decision								
Production								
ADV MINI MINE ID SENSOR (UIS PIP) Testing								
Production Decision								
Production								

R-1 SHOPPING LIST - Item No. 71 - 15 of 71 -18

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 15 of 18)

UNCLASSIFIED CLASSIFICATION:

	EXHIBIT R-2a, RI	JI&E Project Ju	stification			DATE:	June 2001	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-4		EMENT NAME A D Development			NAME AND NUM Systems/Q1317			
0603654N Joint Service EOD Development; Q1317 EOD Diving Systems								
		F	RDT&E Milestone	Chart				
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
ADVANCED UBA								
Testing								
Production Decision								
Production								

R-1 SHOPPING LIST - Item No. 71 - 16 of 71 - 18

Exhibit R-2a, RDT&E Project Justification (Exhibit R-2a, page 16 of 18)

UNCLASSIFIED

								DATE:				
Exhibit R-3 Cost Analysis (pa		<u>.</u>								June 2001		
APPROPRIATION/BUDGET ACTI	√ITY	PROGRAM E	LEMENT			PROJECT NAME AND NUMBER						
RDT&E, N/BA-4		0603654N				EOD Diving Systems/Q1317						
Cost Categories	Contract	Performing	Total		FY 00		FY 01		FY 02			
Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Hardware Development	WR	SPAWAR, SD, CA	2.630	1.000	10/99	0.770	10/00	0.200	10/01	Continuing	Continuing	N/A
Primary Hardware Development	WR	Various	15.573	0.857	10/99	2.661	10/00	3.076	10/01	Continuing	Continuing	N/A
Software Development	WR	Various	0.733	0.158	10/99	0.200	10/00	0.200	10/01	Continuing	Continuing	N/A
Systems Engineering	WR	Various	6.400	0.330	10/99	0.300	10/00	0.325	10/01	Continuing	Continuing	N/A
LS	WR	Various	10.692	0.200	10/99	0.200	10/00	0.225	10/01	Continuing	Continuing	N/A
											0.000	
											0.000	
											0.000	
Subtotal Product Development Remarks:			36.028	2.545		4.131		4.026		Continuing	Continuing	N/A
,			36.028	2.545		4.131		4.026		Continuing		N/A
Remarks:	C/CPFF	Dynamic System, Alex, VA	36.028	2.545	01/00	4.131	01/01	4.026	01/02	Continuing		N/A
Remarks:	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing	
Remarks:	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing	N/A
Remarks:	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing Continuing 0.000	N/A
Remarks:	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing Continuing 0.000 0.000	N/A
Remarks:	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing	N/A
,	C/CPFF	Dynamic System, Alex, VA			01/00		01/01		01/02		Continuing	N/A

R-1 SHOPPING LIST - Item No. 71 - 17 of 71 - 18

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 17 of 18)

UNCLASSIFIED

								DATE:				
Exhibit R-3 Cost Analysis (pa	ige 2)										June 2001	
			PROGRAM ELEMENT				PROJECT NAME AND NUMBER					
RDT&E, N/BA-4			0603654N			EOD Diving Systems/Q1317						
Cost Categories (Tailor to WBS, or System/Item	Contract Method	Performing Activity &	Total PY s	FY 00	FY 00 Award	FY 01	FY 01 Award	FY 02	FY 02 Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Developmental Test & Evaluation	WR	Various	1.920	0.400	10/99	0.400	10/00	0.400		Continuing	Continuing	N/A
Operational Test & Evaluation	WR	Various	0.600	0.320	10/99	0.340	10/00	0.300		Continuing	Continuing	N/A
											0.000	
Subtotal T&E			2.520	0.720		0.740		0.700		0.000	Continuing	N/A
Program Management Personnel WR	EODTD, IH, M		0.650	10/99	0.650	10/00	0.650		Continuing	Continuing	N/A	
Miscellaneous	Various	Various	1.070	0.618	02/00	1.042	02/01	1.023		Continuing	Continuing 0.000	N/A
											0.000	+
											0.000	-
											0.000	-
Subtotal Management			4.537	1.268		1.692		1.673		Continuing	Continuing	N/A
Remarks:												
T-4-1 O4		1	1	4.973		7.013		6.849		Continuing	Continuing	N/A
Total Cost			44.931	4.973		7.013		0.043		Continuing	Continuing	IN/A

R-1 SHOPPING LIST - Item No. 71 - 18 of 71 - 18

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 18 of 18)