



# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development			PROJECT NUMBER AND NAME 0099/Deep Submergence Biomedical Development			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	<b>2.985</b>	<b>3.248</b>	<b>2.989</b>	<b>2.993</b>	<b>3.709</b>	<b>3.746</b>	<b>3.823</b>	<b>3.896</b>
RDT&E Articles Qty								

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

Develops advanced biomedical and bioengineering technology for enhancing medical and life support for submarine escape and rescue; and for diver safety and effectiveness; supports deeper, longer, and more flexible dives. Deliverables for DISSUB (disabled submarine) include: medical procedures for submarine escape and rescue (including new Submarine Rescue Diving and Recompression System (SRDRS)), life support parameters, medical procedures for life support, exposure guidance for atmospheric contaminants, non-chemical CO2 scrubbing, prevention and treatment of decompression illness, and senior survivor expert decision system. Deliverables for diver enhancement include: exposure guidance for diver underwater continuous noise, impulse noise, and underwater blast, exposure guidance for oxygen breathing, collection of operational diving depth/time profiles to predict decompression risk, and enhanced underwater swimming efficiency. Requirements: NAPDD #587-873, Deep Submergence Biomedical Development, 23 November 1999.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0099/Deep Submergence Biomedical Development
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**B. Accomplishments/Planned Program**

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.618	1.825	1.684	1.689
RDT&E Articles Quantity				

Diver Health and Safety Research: Pulmonary oxygen toxicity exposure limits. Procedures for assessing and mitigating risk for diving in contaminated water. Procedure to determine remaining CO2 scrubber duration. Development of advanced insulation garments for diver thermal protection. Develop final guidance for warm water diving. Continue collection of operational dive profiles for advanced modeling. Submarine ballast tank air quality survey. Novel methods for diver thermal protection. Improve resistance to O2 toxicity. Diver anthropometry. Chemical hardening of diving equipment. Predictive index of visual and auditory O2 toxicity. Guidelines for flying after diving. Guidelines for infra- and ultra-sound diver exposure. Develop an advanced diver thermal model. Guidelines for ballast tank diving. Protective gear for diver noise exposure. Electronic collection of operational dive data.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.367	1.423	1.305	1.304
RDT&E Articles Quantity				

Submarine Rescue: Decompression procedures for pressurized SRDRS operators. Use of perfluorocarbons to accelerate decompression in submarine rescue. Adjunctive therapies for treating DISSUB survivors. Guidance for food, water, clothing, medical supplies to enhance survival of submarine crews awaiting rescue. Flexible computer generated decompression schedules for wide range of conditions in a DISSUB. Develop DISSUB triage procedures. DISSUB survival trial. Develop oxygen metabolizer for closed vehicles. Accelerate decompression by negative pressure breathing. Treatment guidance for decompression sickness and arterial gas embolism in submarine escape and rescue. Interventions for toxicological problems with rescued submariners. Minimizing decompression sickness and arterial gas embolism with Submarine Escape and Immersion Suit (SEIS) training. Use of pharmacologic agents to reduce decompression risk in submarine rescues.

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

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0099/Deep Submergence Biomedical Development

**C. PROGRAM CHANGE SUMMARY:**

Funding:	FY 2004	FY 2005	FY 2006	FY 2007
FY05 President's Budget	2.996	3.280	3.375	4.077
FY06 President's Budget	2.985	3.248	2.989	2.993
Total Adjustments	-0.011	-0.032	-0.386	-1.084
Summary of Adjustments				
FY04 SBIR	-0.003			
Programmatic adjustments	-0.002	-0.001	-0.415	-1.122
Section 8105: Reduce IT Development Cost Growth		-0.002		
Section 8122: Asumed Management Improvements		-0.010		
Section 8131: Non-Statutory Funding Set Asides		-0.019		
Inflation adjustment			0.029	0.038
Cancelled Accounts	-0.006			
Subtotal	-0.011	-0.032	-0.386	-1.084

Schedule:  
Not Applicable

Technical:  
Not Applicable

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EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2005</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0099/Deep Submergence Biomedical Development
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**D. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>
Not Applicable										

**E. ACQUISITION STRATEGY: \***

Integrated thrust area teams (e.g. decompression research) are established with university, commercial and in-house Navy lab to jointly execute biomedical R&D; peer review of research proposals accomplished by independent Technical Advisory Board; annual review of progress by Executive Review Board (CNO/NAVSEA/ONR/BUMED); contracting by competitive process using BAA and leveraging ONR capabilities.

**F. MAJOR PERFORMERS: \*\***

Navy Experimental Diving Unit (NEDU) (Oct/each FY) is the center for manned diving biomedical research and development for the Navy. All Navy manned diving research facilities were consolidated at NEDU during the last BRAC.

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Exhibit R-3 Cost Analysis (page 1)											DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME								
RDT&E, N / BA-4			0603713N/Ocean Engineering Technology Developer				0099/Deep Submergence Biomedical Development								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	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	Cost to Complete	Total Cost	Target Value of Contract	
Primary Hardware Development													0.000		
Ancillary Hardware Development													0.000		
Component Development													0.000		
Ship Integration													0.000		
Ship Suitability													0.000		
Systems Engineering													0.000		
Training Development													0.000		
Licenses													0.000		
Tooling													0.000		
GFE													0.000		
Award Fees													0.000		
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000		0.000	0.000		
Remarks:															
Development Support													0.000		
Software Development													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	0.000		
Remarks:															

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)											DATE: <b>February 2005</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
<b>RDT&amp;E, N / BA-4</b>			0603713N/Ocean Engineering Technology Development				0099/Deep Submergence Biomedical Development							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	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	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NEDU	20.845	2.811	10/03	3.024	10/04	2.782	10/05	2.784	10/06	Continuous	32.246	
	CPIF	OceanWorks	1.171										1.171	1.171
Operational Test & Evaluation													0.000	
Live Fire Test & Evaluation													0.000	
Test Assets													0.000	
Tooling													0.000	
GFE													0.000	
Award Fees													0.000	
Subtotal T&E			22.016	2.811		3.024		2.782		2.784			33.417	
Contractor Engineering Support													0.000	
Government Engineering Support													0.000	
Program Management Support	Various		0.102	0.115	11/03								0.217	
Travel			0.033	0.023	various	0.027	various	0.029	various	0.031	various	Continuous	0.143	
Labor (Research Personnel)													0.000	
*SBIR Assessment			0.110	0.036	various	0.197	various	0.178	various	0.178	various		0.699	
Subtotal Management			0.245	0.174		0.224		0.207		0.209			1.059	
Remarks:*SBIR Assessment includes other extramural program assessments.														
Total Cost			22.261	2.985		3.248		2.989		2.993			34.476	
Remarks:														

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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>		PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development			PROJECT NUMBER AND NAME 0394/Shallow Depth Diving Equipment			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	<b>14.560</b>	<b>22.730</b>	<b>21.631</b>	<b>12.036</b>	<b>1.191</b>	<b>1.282</b>	<b>1.254</b>	<b>1.313</b>
RDT&E Articles Qty								

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

This project is to develop systems to support submarine escape and rescue missions, and conventional diver operations. Diver operations include ship husbandry, salvage/recovery, and submarine rescue operations to support national, as well as, Navy needs around the world. Modern certifiable diving systems that ensure diver safety and allow maximum work efficiency will replace currently antiquated systems. Efforts are currently (through FY 07) focused on the Submarine Rescue Diving and Recompression System (SRDRS) to provide a new rapidly deployed emergency submarine rescue capability. SRDRS will fill the gap created by the decommissioning of USS PIGEON (ASR 21) and USS ORTOLAN (ASR 22) and provide a new capability of pressurized transportation of rescuees from a stricken submarine directly to the decompression system eliminating the requirement for Deep Submergence Rescue Vehicles, Mother Submarines and Submarine Rescue Chambers. SRDRS is to include an air transportable rapid assessment/underwater work system, a decompression chamber system and a pressurized rescue module. The SRDRS will provide a global rapid response capability to support submarine rescue missions with an increase in capability at a fraction of the cost of the currently available systems. Requirements and funding beyond FY07 for SRDRS are currently zero (\$0.00) but the project costs are for other Shallow Depth Diving Equipment managed under SEA00C. FY04-07 budget as indicated above is solely for the SRDRS program acquisition.

Shallow Depth Diving Equipment managed under SEA 00C (FY08 - FY11) - This project develops systems to support submarine escape and rescue missions, and conventional diver operations. Diver operations include ship husbandry, salvage/recovery, and submarine rescue operations to support national, as well as, Navy needs around the world. Modern certifiable diving systems that ensure diver safety and allow maximum work efficiency will replace currently antiquated systems. Current plans are to perform R&D in the areas of contaminated water diving in FY08 – FY11.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0394/Shallow Depth Diving Equipment
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**B. Accomplishments/Planned Program**

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	14.560	22.730	21.631	12.036
RDT&E Articles Quantity				

Complete fabrication and acceptance testing of the prototype Submarine Decompression System and support equipment. Complete design, begin fabrication and acceptance testing of prototype Pressurized Rescue Module and support equipment. Begin integration and testing of all SRDRS components.

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

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

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EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0394/Shallow Depth Diving Equipment			
<b>C. PROGRAM CHANGE SUMMARY:</b>					
Funding:		FY 2004	FY 2005	FY 2006	FY 2007
FY05 President's Budget		14.981	22.952	15.337	5.892
FY06 President's Budget		14.560	22.730	21.631	12.036
Total Adjustments		-0.421	-0.222	6.294	6.144
Summary of Adjustments					
Programmatic adjustments			-0.005	6.085	5.995
FY04 SBIR (9-Apr-04)		-0.383			
Section 8105 Reduce IT Development Cost Growth			-0.015		
Section 8122: Assumed Management Improvements			-0.069		
Section 8131 Non-Statutory Funding Set Asides			-0.133		
Inflation adjustment				0.209	0.149
Execution Realignments		0.002			
Cancelled Accounts Liability		-0.040			
		-0.421	-0.222	6.294	6.144
Schedule:					
Not Applicable					
Technical:					
Not Applicable					

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EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2005</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development	PROJECT NUMBER AND NAME 0394/Shallow Depth Diving Equipment
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**D. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>
Not Applicable										

**E. ACQUISITION STRATEGY: \***

The Submarine Rescue System (SRS) segment of the SRDRS is largely based on the use of Commercial-Off-the-Shelf (COTS) technology and maximum use of Non-Developmental Items (NDI). The SRS segment is being procured using performance based specifications. Many of the SRS contracts were awarded competitively and were based on technical capability and cost considerations (best value). The Prototype system will provide full operational capability and no additional procurement is planned. The system is designed to be Government Owned/Commercially Operated (GO/CO).

**F. MAJOR PERFORMERS: \*\***

Oceaneering International is providing systems engineering and integration support for the SRS through a Veterans Administration contract. Oceanworks, Inc. is the detailed designer and fabrication of the Pressurized Rescue Module. Global Phillips Cartner is providing fabrication and integration of the SRDRS mission support equipment.

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Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2005</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-4</b>			0603713N/Ocean Engineering Technology			0394/Shallow Depth Diving Equipment								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	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	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development														
Ancillary Hardware Development														
Design, System integration	CPAF	Oceaneering (remark 2)	6.638		N/A		N/A		N/A		N/A		6.638	
Decompression Chambers (SDC 1 and 2)	FFP	NFESC	3.317	0.000	N/A		N/A		N/A		N/A		3.317	
Various Mission Support Equip. (MSE)	Various	GPC(Past)/Various (Fut	7.768	0.491	Various	1.243	Various	4.651	Various	1.971	Various		16.124	
Pressurized Rescue Module Sys. (PRMS)	CPIF	Oceanworks	22.785	10.000	Various	6.390	Various	3.009	Various	0.483	Various		42.667	
Various PRMS MSE	Various	Miscellaneous	5.581	0.513	Various	5.269	Various	2.799	Various	0.000	Various		14.162	
Systems Engineering - Design, Integratio	Various	Oceaneering	11.991	0.854	Various	1.692	Various	0.829	Various	0.510	Various		15.876	
Systems Engineering - Technical	Various	Various	3.843	0.297	Various	0.403	Various	0.537	Various	0.314	Various		5.394	
Licenses													0.000	
GFE													0.000	
Award Fees	CPAF	Oceaneering	1.234		N/A		N/A		N/A		N/A		1.234	
	CPAF	GPC	0.254		Nov-02	0.172	Various	0.050	Various	0.103	Various		0.579	
													0.000	
Subtotal Product Development			63.411	12.155		15.169		11.875		3.381		0.000	105.991	
<p>Remarks: SDC-1 and SDC-2 chambers under a FFP contract through NFESC. Contract completion date (CCD) remains 31 August 2003 and was missed. Liquidated damages are being assessed per the FAR. A significant Request for Equitable Adjustment (REA) has been submitted and contracting officer progress within NAVFESC. Adjudication or financial liability to program is not included in controls.</p>														
Development Support	Various	Miscellaneous	0.279		N/A		N/A		N/A		N/A		0.279	
Software Development	WR	NSWC CD	0.221		N/A		N/A		N/A		N/A		0.221	
Integrated Logistics Support	MIPR	DOI, Titan	2.114	0.180	Oct-04		N/A		N/A		N/A		2.294	
Integrated Logistics Support	Various	Miscellaneous	0.000	0.293	Various	0.841	Various	0.837	Various	0.746	Various		2.717	
Configuration Management	CPAF	Oceaneering	0.000	0.170	Various	0.489	Various	0.505	Various	0.340	Various		1.504	
Technical Data													0.000	
GFE													0.000	
Award Fees	CPAF	Phoenix International	0.023		N/A		N/A		N/A		N/A		0.023	
Subtotal Support			2.637	0.643		1.330		1.342		1.086		0.000	7.038	
Remarks:														

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2005</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
<b>RDT&amp;E, N / BA-4</b>			0603713N/Ocean Engineering Technology				0394/Shallow Depth Diving Equipment							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	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	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Miscellaneous	1.093	0.000	N/A	1.830	Various	2.762	Various	1.903	Various		7.588	
Operational Test & Evaluation	WX	COMOPTEVFOR	0.020	0.015	Various	1.678	Various	2.358	Various	3.277	Various		7.348	
													0.000	
Tooling													0.000	
GFE													0.000	
Award Fees													0.000	
Subtotal T&E			1.113	0.015		3.508		5.120		5.180		0.000	14.936	
Remarks:														
Contractor Engineering Support	Various	QBS/Various	1.225	0.093	Nov-04	0.096	Various	0.074	Various	0.051	Various		1.539	
Government Engineering Support	WX	NFESC	0.416	0.060	Various	0.050	Various		N/A		N/A		0.526	
Government Engineering Support	MIPR	DOI	1.161		N/A		N/A		N/A		N/A		1.161	
Government Engineering Support	WX	PSNSY, Various	0.011	0.212	Various	0.330	Various	0.339	Various	0.350	Various		1.242	
Government Engineering Support	Various	Miscellaneous	1.277	0.340	Various	1.017	Various	1.466	Various	0.950	Various		5.050	
Program Management Support	Various	Miscellaneous	0.374	0.375	Nov-04	0.386	Various	0.398	Various	0.410	Various		1.943	
Travel	Various	Various	0.451	0.366	Various	0.371	Various	0.574	Various	0.382	Various		2.144	
SBIR Assessment (remark 1)			0.596	0.301	Various	0.473	Various	0.443	Various	0.246	Various		2.059	
Subtotal Management			5.511	1.747		2.723		3.294		2.389		0.000	15.664	
Remarks:														
Total Cost			72.672	14.560		22.730		21.631		12.036		0.000	143.629	
Remarks:														



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EXHIBIT R4, Schedule Profile																				Date: <b>January 2005</b> <b>38384</b>												
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-4</b>										PROGRAM ELEMENT NUMBER AND NAME 0603713N/Ocean Engineering Technology Development										PROJECT NUMBER AND NAME 0394/Shallow Depth Diving Equipment												
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				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
<b>Design/Development</b>																																
Contaminated Water Diver Protection																																
Contaminated Water Diver Decontamination																																
Contaminated Water Tender Protection																																
<b>Test &amp; Evaluation Milestones</b>																																
<b>Development Test &amp; Operational Test:</b>																																
Contaminated Water Diver Protection																																
Contaminated Water Diver Decontamination																																
Contaminated Water Tender Protection																																
<b>Final Design/Certification</b>																																
Contaminated Water Diver Protection																																
Contaminated Water Diver Decontamination																																
Contaminated Water Tender Protection																																

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

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Exhibit R-4a, Schedule Detail						38384 <b>January 2005</b>		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
<b>RDT&amp;BA-4</b>	0603713N/Ocean Engineering Technology Development				0394/Shallow Depth Diving Equipment			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone II (MSII)								
Detail Design/Development and Fab (SDS - SDC, PFMS,	1Q-4Q	1Q-4Q	1Q-3Q					
Detail Design/Devel. and Fab (PRMS - PRMS-1 and PRM	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-2Q			
Critical Design Review (CDR) - PRMS	3Q							
Physical Configuration Audit - SDC	4Q	1Q						
Hardware Delivery - SDC-1 and SDC 2	4Q	1Q						
Functional Configuration Audit (FCA) - PRM		2Q						
Developmental Testing (DT-SDS)		2Q						
Operational Testing (OOC-SDS)			1Q					
Acquisition Capability Delivery - Recompression			1Q					
Physical Configuration Audit - PRM		4Q						
Hardware Delivery - PRM-1 and PRMS			2Q					
Developmental Testing (DT-PRMS)			2Q-3Q					
Operational Testing (OOC-PRMS)			3Q-4Q					
Acquisition Capability Delivery - Rescue Ready			4Q					
Hardware Delivery - DTL			3Q					
Developmental Testing (DT-TUP)				2Q-3Q				
Operational Testing (OOC-TUP)				2Q-3Q				
Acquisition Capability Delivery - TUP				3Q				
Physical Configuration Audit - PRM-2					2Q			
Hardware Delivery - PRM-2					2Q			
Operational Evaluation Full SRDRS					3Q-4Q			
Milestone C					4Q			
Acquisition Capability Delivery - Full Up SRDRS					4Q			
First Deployment (Rescue Ready (DSRV Equiv.)			4Q					
First Deployment (Fly Away Recompression w/ TUP)				3Q				
First Deployment Full -Up SRDRS					4Q			
Initial Operational Capability (IOC) of Full Up SRDRS					4Q			

Note: PRM-2 is an unfunded requirement.

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