

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-4</b>					R-1 ITEM NOMENCLATURE 0603713N/Ocean Engineering Technology Development			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	23.938	17.259	5.122	5.384	15.133	10.310	5.335	5.436
0099/Deep Submergence Biomedical Development	2.942	2.987	3.320	3.286	3.385	3.407	4.002	4.078
0394/Shallow Depth Diving Equipment	20.996	13.276	1.802	2.098	11.748	6.903	1.333	1.358
9999/Congressional Adds	0.000	0.996	0.000	0.000	0.000	0.000	0.000	0.000
<b>Defense Emergency Response Funds (DERF) Funds:</b> N/A.								
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>								
Developments in this program will enable the U.S. Navy to overcome deficiencies that constrain underwater operations in the areas of search, location, rescue, recovery, salvage, construction, and protection of offshore assets. This program develops medical technology, diver life support equipment, and the vehicles, systems, tools and procedures to permit manned underwater operations.								
<b>B. PROGRAM CHANGE SUMMARY:</b>								
Funding:	FY 2006	FY 2007	FY 2008	FY 2009				
Previous President's Budget: (FY 07 President's Budget Controls)	24.462	16.324	3.717	3.752				
Current Budget (FY08 President's Budget Controls)	23.938	17.259	5.122	5.384				
Total Adjustments	-0.524	0.935	1.405	1.632				
Summary of Adjustments								
Economic Assumptions	0.005	-0.065						
Congressional Increases	0.012	1.000						
Cancelled Accounts	-0.031							
Program Adjustments	-0.510			1.405	1.632			
	-0.524	0.935	1.405	1.632				

# UNCLASSIFIED

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	<b>2.942</b>	<b>2.987</b>	<b>3.320</b>	<b>3.286</b>	<b>3.385</b>	<b>3.407</b>	<b>4.002</b>	<b>4.078</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.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</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

**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.641	1.689	2.004	1.968
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 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.301	1.298	1.316	1.318
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 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, N / BA-4		<b>PROGRAM ELEMENT NUMBER AND NAME</b> 0603713N/Ocean Engineering Technology Development			<b>PROJECT NUMBER AND NAME</b> 0099/Deep Submergence Biomedical Development					
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
Not Applicable										
<b>D. ACQUISITION STRATEGY: *</b>										
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); program management by 0-6 Medical Dept Officer; contracting by competitive process using BAA and leveraging ONR capabilities.										
<b>E. MAJOR PERFORMERS: **</b>										
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.										

R-1 SHOPPING LIST - Item No. 58

# UNCLASSIFIED

**UNCLASSIFIED**

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-4			0603713N/Ocean Engineering Technology Development			0099/Deep Submergence Biomedical Development								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development													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	
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	
Remarks:														

**UNCLASSIFIED**

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)											DATE: <b>February 2007</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 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NEDU	26.673	2.739	10/05	2.776	10/06	3.101	10/07	3.059	10/08	Continuous	38.348	
	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			27.844	2.739		2.776		3.101		3.059		0.000	39.519	
Contractor Engineering Support													0.000	
Government Engineering Support													0.000	
Program Management Support	Various		0.217										0.217	
Travel			0.081	0.025	various	0.033	various	0.041	various	0.049	various	Continuous	0.229	
Labor (Research Personnel)													0.000	
*SBIR Assessment			0.343	0.178	various	0.178	various	0.178	various	0.178	various		1.055	
Subtotal Management			0.641	0.203		0.211		0.219		0.227		0.000	1.501	
Remarks:*SBIR Assessment includes other extramural program assessments.														
Total Cost			28.485	2.942		2.987		3.320		3.286		0.000	41.020	
Remarks:														

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	<b>20.996</b>	<b>13.276</b>	<b>1.802</b>	<b>2.098</b>	<b>11.748</b>	<b>6.903</b>	<b>1.333</b>	<b>1.358</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 11) 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 rescues 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.

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 – FY13.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</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. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09	
Accomplishments/Effort/Subtotal Cost	20.996	13.276	0.600	0.800	
RDT&E Articles Quantity					

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

	FY 06	FY 07	FY 08	FY 09	
Accomplishments/Effort/Subtotal Cost			1.202	1.298	
RDT&E Articles Quantity					

R&D for contaminated water diving.

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

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, N / BA-4			<b>PROGRAM ELEMENT NUMBER AND NAME</b> 0603713N/Ocean Engineering Technology Development			<b>PROJECT NUMBER AND NAME</b> 0394/Shallow Depth Diving Equipment				
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
Not Applicable										
<b>D. ACQUISITION STRATEGY: *</b>										
<p>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). Program Management of SRDRS is accomplished through the use of Program Executive Officer, Submarines (PEO SUB) leadership. This change was enacted in February 2003 realigning the responsibility from SEA00C to PEOSUB. 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).</p>										
<b>E. MAJOR PERFORMERS: **</b>										
<p>Oceanneering International is providing systems engineering and integration support for the SRS. Oceanworks, Inc. is the detailed designer and fabricator of the Pressurized Rescue Module.</p>										

R-1 SHOPPING LIST - Item No. 58

# UNCLASSIFIED

**UNCLASSIFIED**

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2007</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 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development														
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		N/A		N/A		N/A		N/A		3.317	
Various Mission Support Equip. (MSE)	Various	GPC(Past)/Various (Fut	9.502		N/A		N/A		N/A		N/A		9.502	
Pressurized Rescue Module Sys. (PRMS)	CPIF	Oceanworks	39.175	12.824	Various	2.619	Various		N/A		N/A		54.618	
Various PRMS MSE	Various	Miscellaneous	10.836	0.000	Various		N/A		N/A		N/A		10.836	
Systems Engineering - Design, Integration	Various	Oceaneering	14.537	0.829	Various	6.484	Various	0.600	Various	0.800	Various	19.652	42.902	
Systems Engineering - Technical	Various	Various	4.543	0.537	Various	0.000	Various		N/A		N/A	0.300	5.380	
Licenses													0.000	
GFE													0.000	
Award Fees	CPAF	Oceaneering	1.234		N/A		N/A		N/A		N/A		1.234	
	CPAF	GPC	0.426		Various		Various		Various		Various		0.426	
Subtotal Product Development			90.208	14.190		9.103		0.600		0.800		19.952	134.853	
<b>Remarks:</b> 1. Restructuring or rephrasing of non-rescue related subsystems and components done with N773 and CNSF staff concurrence. 2. Prior year values adjusted to match Submarine Rescue System (SRS) portion only. Other PY costs are for the Assessment/Underwater Work System (AUWS) managed by PMS 394C. 3. 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 denied within NAVFESC. Further adjudication or financial liability to program is not included in controls. 4. Adjustments for Oceanworks PRMS cost growths under negotiation with NAVSEA02 and Canadian Commercial Corporation.														
Development Support	Various	Miscellaneous	0.279		N/A		N/A	1.192	N/A	1.288			2.759	
Software Development	WR	NSWC CD	0.221		N/A		N/A		N/A				0.221	
Integrated Logistics Support	MIPR	DOI, Titan	2.294		N/A		N/A		N/A				2.294	
Integrated Logistics Support	Various	Miscellaneous	1.134	0.841	Various	0.746	Various		Various		Various		2.721	
Configuration Management	CPAF	Oceaneering	0.659	0.489	Various	0.340	Various		Various		Various	0.500	1.988	
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			4.610	1.330		1.086		1.192		1.288		0.500	10.006	
<b>Remarks:</b>														

**UNCLASSIFIED**

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-4</b>			0603713N/Ocean Engineering Technol			0394/Shallow Depth Diving Equipment								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Miscellaneous	2.923	2.762	Various	1.963	Various				Various			7.648
Operational Test & Evaluation	WX	COMOPTVFOR	1.713	0.050	Various	0.225	Various				Various	0.320	2.308	
													0.000	
Tooling													0.000	
GFE													0.000	
Award Fees													0.000	
Subtotal T&E			4.636	2.812		2.188		0.000		0.000		0.320	9.956	
Remarks:														
Contractor Engineering Support	Various	QBS/Various	1.414	0.074	Various	0.000	Various		Various		Various		1.488	
Government Engineering Support	WX	NFESC	0.526	0.106	Various		N/A		N/A		N/A		0.632	
Government Engineering Support	MIPR	DOI	1.161		N/A		N/A		N/A		N/A		1.161	
Government Engineering Support	WX	PSNSY, Various	0.553	0.339	Various	0.070	Various		Various		Various		0.962	
Government Engineering Support	Various	Miscellaneous	2.634	1.360	Various	0.326	Various		Various		Various		4.320	
Program Management Support	Various	Miscellaneous	1.135	0.267	Various	0.280	Various		Various		Various	0.420	2.102	
Travel	Various	Various	1.188	0.075	Various	0.223	Various	0.010	Various	0.010	Various	0.150	1.656	
SBIR Assessment (remark 1)			1.370	0.443	Various	0.000	Various		Various		Various		1.813	
Subtotal Management			9.981	2.664		0.899		0.010		0.010		0.570	14.134	
Remarks:														
Total Cost			109.435	20.996		13.276		1.802		2.098		21.342	168.949	
Remarks: 1. SBIR Assessment includes other extramural program assessments FY 02-05.														



# UNCLASSIFIED

**CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE: <b>February 2007</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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone II (MSII)								
Detail Design/Development and Fab (SDS - SDC, PFMS, etc.)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q			
Detail Design/Devel. and Fab (PRMS)	1Q-4Q	1Q-2Q						
Critical Design Review (CDR) - PRMS	1Q-4Q							
Physical Configuration Audit - SDC		2Q						
Hardware Delivery - SDC-1 and SDC 2		3Q						
Functional Configuration Audit (FCA) - PRM		2Q						
Developmental Testing (DT-SDS)			1Q-2Q					
Physical Configuration Audit - PRM		3Q						
Hardware Delivery - PRMS		2Q						
Developmental Testing (DT-PRMS)		2Q-3Q						
Operational Testing (OPEVAL-PRMS)		4Q	1Q					
Acquisition Capability Delivery - Rescue Ready			2Q					
Hardware Delivery - DTL					2Q-3Q			
Developmental Testing (DT-TUP)					4Q	1Q		
Operational Testing (OT-TUP)						1Q-2Q		
Acquisition Capability Delivery - TUP						2Q-3Q		
Operational Evaluation Full SRDRS						1Q-2Q		
Milestone C						3Q		
Acquisition Capability Delivery - Full Up SRDRS						3Q		
First Deployment (Rescue Ready (DSRV Equiv.))			2Q					
First Deployment (Fly Away Recompression w/ TUP)						3Q		
First Deployment Full -Up SRDRS						3Q		
Initial Operational Capability (IOC) of Full Up SRDRS						3Q		

R-1 SHOPPING LIST - Item No.

58

# UNCLASSIFIED

**Exhibit R-4a, Schedule Detail**

(Exhibit R-4a, page 13 of 16)

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																	Date: <b>February 2007</b>															
APPROPRIATION/BUDGET ACTIVITY								PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME																
<b>RDT&amp;E, N / BA-4</b>								0603713N/Ocean Engineering Technology Development								0394/Shallow Depth Diving Equipment																
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<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																																

R-1 SHOPPING LIST - Item No. 58

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

# UNCLASSIFIED



# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2007</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 Project Unit (PU) No. and Name: Congressional Plus-Ups: VARIOUS
---	--	--

**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
9A09N	0.000	0.996	0.000	0.000
Advanced Composite Riverine Craft				

This Congressional Add funding is for advanced composite riverine craft.

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

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