

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Project Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME Sub Acoustic Warfare Dev/0101226N			PROJECT NUMBER AND NAME Submarine Defensive Warfare Systems/F1265			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	0.944	1.065	2.955	8.580	8.751	8.908	9.074	9.240
RDT&E Articles Qty								
Defense Emergency Responses Funds (DERF): Not Applicable A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US submarines. Acoustic Intercept consist of developing a new acoustic sensor, the Sparsely Populated Volumetric Array (SPVA), that will improve the performance of acoustic intercept systems and will provide a ranging capability for submarines through Acoustic Rapid COTS Insertion (ARCI) and Advanced Process Build (APB) software improvements. Next Generation Countermeasure (NGCM) comprise of simulation and effectiveness analysis at the Weapons Analysis Facility (WAF) which provides the US Navy with testing of hardware and software within detailed representations of acoustic environments. NGCM also includes Future Naval Capability (FNC) efforts at Office of Naval Research (ONR). Anti-Torpedo Torpedo (ATT) includes integration and testing efforts that will be used to determine physical compatibility of the Anti-Torpedo Torpedo (ATT) All Up Round (AUR) to survive storage and launch from the CSA MK2 countermeasure launcher.								

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Exhibit R-2a, RD TEN Project Justification
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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7	PROGRAM ELEMENT NUMBER AND NAME Sub Acoustic Warfare Dev/0101226N	PROJECT NUMBER AND NAME Submarine Defensive Warfare Systems/F1265																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 02</th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">0.478</td><td style="text-align: center;">0.533</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.478	0.533	0.000	0.000	RDT&E Articles Quantity				
	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	0.478	0.533	0.000	0.000															
RDT&E Articles Quantity																			
FY02-03 - Continue Acoustic Intercept Technology transition and conduct at-sea testing.																			
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Accomplishments/Effort/Subtotal Cost	0.466	0.532	1.514	1.530															
RDT&E Articles Quantity																			
FY02-05 - Continue to conduct countermeasure proofing and effectiveness analysis for designated torpedo at Weapons Analysis Facility (WAF) .																			
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	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	0.000	0.000	1.441	7.050															
RDT&E Articles Quantity																			
FY04-Begin Commonality Integration/development of ATT AUR for Submarine using a modified Submarine CSA MK2 Launcher systems. FY05-Continue ATT Development and Submarine Integration. Conduct at-sea Submarine Launch Capability Test using a modified CSA MK2 Launcher																			

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C. PROGRAM CHANGE SUMMARY:

	FY 2002	FY 2003	FY 2004	FY 2005
Funding:				
Previous President's Budget: (FY 03 Pres Controls)	0.996	1.091	3.078	8.821
Current BES/President's Budget: (FY04/05 Pres Controls)	0.944	1.065	2.955	8.580
Total Adjustments	-0.052	-0.026	-0.123	-0.241
Summary of Adjustments				
SBIR/STTR Transfer	-0.014			
Economic Assumptions/Bus Process Reform	-0.038	-0.026	-0.123	-0.241
Subtotal	-0.052	-0.026	-0.123	-0.241

Schedule:

Not Applicable

Technical:

Not Applicable

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	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Acoustic Intercept Improvement Initiative - SPVA	Sensor Development		<div>△ APB(A) 02 Test <div>△△ At-Sea Tests</div></div>						
	Transition Phase								
Anti-Torpedo Torpedo				ATT AUR Commonality Integration					
					<div>△ At-Sea Compatibility Test</div>				
Weapons Analysis Facility					CM Effectiveness / WAF Threat Vulnerability				
NGCM						Next Generation CM			

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7			PROGRAM ELEMENT Sub Acoustic Warfare Dev/0101226N				PROJECT NUMBER AND NAME Submarine Defensive Warfare Systems/F1265					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware Analysis	WR	NUWC Newport, RI	4.746	0.825	12/03	1.509	12/03	1.555	12/05		8.635	
Systems Engineering	CPFF	PSU, State College, PA				1.071	01/04	6.200	01/05		7.271	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			4.746	0.825		2.580		7.755			15.906	
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	
Miscellaneous											0.000	
Subtotal Support			0.000	0.000		0.000		0.000			0.000	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA-7			PROGRAM ELEMENT Sub Acoustic Warfare Dev/0101226N			PROJECT NUMBER AND NAME Submarine Defensive Warfare Systems/F1265						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
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			0.000	0.000		0.000		0.000			0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	C/CPFF	RM Vredenburg Reston, VA	1.907	0.190	02/03	0.275	02/04	0.725	02/05		3.097	
Travel		PMS415	0.050	0.050		0.100		0.100			0.300	
Labor (Research Personnel)											0.000	
SBIR Assessment											0.000	
Subtotal Management			1.957	0.240		0.375		0.825			3.397	
Remarks:												
Total Cost			6.703	1.065		2.955		8.580			19.303	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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