

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Project Justification						DATE: <b>FEBRUARY 2004</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME <b>Sub Acoustic Warfare Development/0101226N</b>			PROJECT NUMBER AND NAME Submarine Defensive Warfare Systems/1265		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	<b>1.057</b>	<b>5.889</b>	<b>8.453</b>	<b>8.633</b>	<b>8.793</b>	<b>8.970</b>	<b>9.150</b>
RDT&E Articles Qty							
<b>Defense Emergency Responses Funds (DERF): Not Applicable</b>  <b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> 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) efforts entails simulation and effectiveness analysis of new technologies from Future Naval Capability (FNC) and SBIR efforts at the Weapons Analysis Facility (WAF). The WAF analysis provides the US Navy with robust testing of new hardware and software within a detailed representation of complex acoustic environments. 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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**B. Accomplishments/Planned Program**

<b>Acoustic Intercept</b>	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.581	0.900	0.700
RDT&E Articles Quantity			

FY03 - FY04 - Continue Acoustic Intercept Technology transition.  
 FY03 - Conduct at Sea-Tests (TACDEVEX)  
 FY04 - Conduct SACA/ SPVA Sea-Test to confirm performance and validate configuration for FY06 production.  
 FY05 - Participate in APB 05 Sea-Test.

  

<b>WAF Analysis</b>	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.476	1.989	1.253
RDT&E Articles Quantity			

FY 03-06 - Continue to conduct countermeasure proofing and effectiveness analysis for designated torpedo at Weapons Analysis Facility (WAF) .

  

<b>ATT AUR Development</b>	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.000	6.500
RDT&E Articles Quantity			

FY 05 - Begin commonality Integration/development of ATT AUR for Submarine using a modified Submarine CSA MK 2 Launcher system.  
 FY 06 - Continue ATT Development and Submarine Integration. Conduct at-sea Submarine Launch Capability Test using a modified CSA MK2 Launcher.

  

<b>NGCM</b>	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000
RDT&E Articles Quantity			

FY06-Begin transition of Future Naval Capability (FNC) technologies into existing fleet countermeasures.

  

<b>SLWW</b>	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	3.000	0.000
RDT&E Articles Quantity			

FY04- Conduct captive carry and verticle launch demonstration of AIM-9 missile and associated systems engineering studies.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
<b>RDT&amp;E, N /BA-7</b>	<b>Sub Acoustic Warfare Dev/0101226N</b>	Submarine Defensive Warfare Systems/1265		
<b>C. PROGRAM CHANGE SUMMARY:</b>				
Funding:	FY 2003	FY 2004	FY 2005	
Previous President's Budget: (FY 04 Pres Controls)	1.065	2.955	8.580	
Current President's Budget: (FY05 Pres Controls)	1.057	5.889	8.453	
Total Adjustments	-0.008	2.934	-0.127	
Summary of Adjustments				
Miscellaneous Adjustment	-0.008	-0.066	-0.127	
Submarine Launched Littoral Warfare Congressional Plus-Up	0.000	3.000	0.000	
Subtotal	-0.008	2.934	-0.127	
Schedule:				
Not Applicable				
Technical:				
Not Applicable				

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<b>D. OTHER PROGRAM FUNDING SUMMARY:</b>									
<u>Line Item No. &amp; Name</u>	<u>FY 2003</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>To Complete</u>	<u>Total Cost</u>
OPN - 221000/221005 Submarine Acoustic Warfare Systems	20.485	25.937	20.857	23.563	25.326	25.924	31.314	CONT.	CONT.
 <b>E. ACQUISITION STRATEGY:</b>  See Attached Schedule									
 <b>F. MAJOR PERFORMERS:</b>  See Attached R-3									

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**Exhibit R-3, Project Cost Analysis**  
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Exhibit R-3 Cost Analysis (page 2)							DATE:		DATE: <b>FEBRUARY 2004</b>					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N /BA-7</b>			<b>Sub Acoustic Warfare Dev/0101226N</b>			<b>Submarine Defensive Warfare Systems/1265</b>								
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	FY 06 Cost	FY 06 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	EG&G Gaithersburg, MD	0.000	0.200	06/03	0.200	11/03	0.200	11/04			CONT.	0.600	
Travel		PMS415	0.000	0.050	11/02	0.050	11/03	0.050	11/04			CONT.	0.150	
Labor (Research Personnel)													0.000	
SBIR Assessment													0.000	
Subtotal Management			0.000	0.250		0.250		0.250					0.750	
Remarks:														
Total Cost			0.000	1.057		5.889		8.453					15.399	
Remarks:														

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Exhibit R-3, Project Cost Analysis  
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EXHIBIT R-4, RDT&E Project Justification					DATE:		FEBRUARY 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME			
RDT&E, N /BA-7		Sub Acoustic Warfare Dev/0101226N			Submarine Defensive Warfare Systems/1265			
	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Acoustic Intercept Improvement Initiative - SPVA	Sensor Development							
		▲▲ At-Sea Tests (TACDEVEX)		△ SACA / SPVA Sea-Test				
	Transition Phase				△ Participate in APB 05 Sea-Test			
Anti-Torpedo Torpedo				ATT AUR Commonality/ Integration				
Weapons Analysis Facility			CM Effectiveness / WAF Threat Vulnerability					
NGCM					Next Generation CM			

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