

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY//BA-7				Submarine Acoustic Warfare Development/0101226N					
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost	0.846	0.987	1.091	3.078	8.821	8.988	9.158	CONT.	CONT.
Submarine Defensive Warfare/V1265	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Submarine Defensive Warfare/F1265	0.846	0.987	1.091	3.078	8.821	8.988	9.158	CONT.	CONT.
Quantity of RDT&E Articles									
<p>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. Project efforts consist of a new acoustic sensor, the Sparsely Populated Volumetric (SPVA), that will improve the performance of acoustic intercept systems (AN/WLR-9) and will provide a ranging capability for submarines. Integrate technology insertion of COTS through Acoustic Rapid COTS Insertion (ARCI) and Advanced Process Build (APB) software improvements to the AN/WLR-9 system. Next Generation Countermeasure (NGCM) including Weapons Analysis Facility (WAF) simulation analysis capability provides the US Navy with testing of hardware and software within detailed representations of acoustic environments. Provides integration of the Anti-Torpedo Torpedo (ATT) All Up Round (AUR) for Submarine Force use.</p> <p>1. (U) FY 2001 Plan: - (\$0.846) Performed Acoustic Intercept Sensor Development.</p> <p>2. (U) FY 2002 Plan: - (\$0.987) Continue Acoustic Intercept Technology Transition and conduct at-sea test. Begin WAF Analysis.</p> <p>3. (U) FY 2003 Plan: - (\$1.091) Continue WAF Analysis.</p>									

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B. Program Change Summary:									
					FY 2001	FY 2002		FY 2003	
(U)	FY 2002 President's Budget:				0.879	0.996			
(U)	Appropriated Value				0.846	0.987			
(U)	Adjustments to: FY 2001/2002 Appropriated Value/ FY 2002 President's Budget:				-0.033	-0.009		1.091	
(U)	FY 2003 President's Budget Submit:				0.846	0.987		1.091	
<p>Funding: FY 2001: Reduction of -0.033 due to 0.7% Pro-Rata Reduction ((-0.006), Government-Wide Recission (-0.002), FY01 SBIR (-0.006), June 2001 BTR (-0.017) , and 2001 Actuals (-0.002)).</p> <p>FY 2002: Reduction of -0.009 due to Management Reform Initiatives (-0.009).</p> <p>FY 2003: Reduction of -0.011 due to Miscellaneous Reductions.</p>									
Schedule: Not Applicable									
Technical: Not Applicable									
C. Other Program Funding Summary:									
OPN BLI: 221000/221005 Submarine Acoustic Warfare Systems									
								To	Total
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Cost
	10.837	13.504	21.686	20.625	17.492	18.853	26.538	CONT.	CONT.
D. Acquisition Strategy: Multi-year competitive contract for the WLY-1 backfit market starting in FY01 has been cancelled. Funds the transition to the WLR-9 and ARCI Program of a new Acoustic Intercept sensor (SPVA) for AI processing.									
E. Schedule Profile: See Attached Schedule									

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RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY//BA-7				Program Element (PE) Name and No. Submarine Acoustic Warfare Development/0101226N			
	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Acoustic Intercept Improvement Initiative - SPVA		<div style="background-color: black; color: white; padding: 2px;">Sensor Development</div> APB(A) 02 Test At-Sea Test Transition Phase					
Anti-Torpedo Torpedo				ATT AUR Commonality Integration			
Weapons Analysis Facility		CM Effectiveness / WAF Threat Vulnerability			At-Sea Compatibility Test		
NGCM						Next Generation CM	

R-1 SHOPPING LIST - Item No. 176 - 3 of 176 - 5

Exhibit R-2, RDT&E Budget Item Justification
(Exhibit R-2, page 3 of 5)

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NAME AND NUMBER					
RDT&E, N/BA-7			Sub Acoustic Warfare Dev/0101226N				Submarine Defensive Warfare Systems/F1265					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPAF	Northrop Grum Melville, NY	37.462							0.000	37.462	37.661
Ancillary Hardware Development											0.000	
Systems Engineering	C/CPAF	General Dyn Groton, CT	4.778							0.000	4.778	5.717
Systems Engineering	WR	PNSY	0.730							0.000	0.730	0.830
Systems Engineering	WR	NUWC Newport, RI	3.312	0.583	11/00	0.747	11/01	0.851		CONT.	CONT.	CONT.
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			46.282	0.583		0.747		0.851		0.000	48.463	
Remarks:												
Development Support Equipment											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	WR		0.196	0.000	Various	0.000	Various	0.000	Various	CONT.	CONT.	CONT.
Subtotal Support			0.196	0.000		0.000		0.000		0.000	0.196	
Remarks:												

R-1 SHOPPING LIST - Item No. 176 - 4 of 176 - 5

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 4 of 5)

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 2)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N/BA-7			Sub Acoustic Warfare Dev/0101226N			Submarine Defensive Warfare Systems/F1265						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	OPTEVFOR Norfolk, VA	0.055							0.000	0.055	0.055
Operational Test & Evaluation	WR	OPTEVFOR Norfolk, VA	0.076								0.076	0.076
Operational Test & Evaluation											0.000	
GFE											0.000	
Subtotal T&E			0.131	0.000		0.000		0.000		0.000	0.131	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	C/CPFF	RM Vredenburg Reston, VA	1.517	0.200	04/01	0.190	01/02	0.190	01/03	CONT.	CONT.	CONT.
Travel		PMS415		0.063		0.050		0.050		CONT.	CONT.	CONT.
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			1.517	0.263		0.240		0.240		0.000	2.260	
Remarks:												
Total Cost			48.126	0.846		0.987		1.091		CONT.	CONT.	CONT.
Remarks:												

R-1 SHOPPING LIST - Item No. 176 - 5 of 176 - 5

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 5 of 5)

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