

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>June 2001</b>				
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE						
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY//BA-7</b>				Submarine Acoustic Warfare Development/0101226N						
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002							
Total PE Cost	<b>3.857</b>	<b>0.871</b>	<b>0.996</b>							
Submarine Defensive Warfare/V1265	<b>3.857</b>	<b>0.000</b>	<b>0.000</b>							
Submarine Defensive Warfare/F1265	<b>0.000</b>	<b>0.871</b>	<b>0.996</b>							
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 threat intercept system that will have threat platform sonar and torpedo recognition capability for early detection, classification, and tracking of threats. It will allow radius of curvature and multipath ranging. The system will also include a control subsystem for launch management of all onboard countermeasure devices and launchers. 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> <ol style="list-style-type: none"> <li>1. (U) FY 2000 Plan: <ul style="list-style-type: none"> <li>- (\$3.857) Complete Phase II Design Review and conduct TECHEVAL/OPEVAL for the AN/WLY-1 system.</li> </ul> </li> <li>2. (U) FY 2001 Plan: <ul style="list-style-type: none"> <li>- (\$0.865) Perform AN/WLR-9 Sensor Development.</li> <li>- (\$0.006) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.</li> </ul> </li> <li>3. (U) FY 2002 Plan: <ul style="list-style-type: none"> <li>- (\$0.996) Conduct at-sea test. Continue AN/WLR-9 Technology Transition and begin integration of the ATT AUR for Submarine Force use.</li> </ul> </li> </ol>										

R-1 SHOPPING LIST - Item No. 179 - 1 of 179 - 5

**Exhibit R-2, RDT&E Budget Item Justification**  
(Exhibit R-2, page 1 of 5)

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE	
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY//BA-7</b>		Submarine Acoustic Warfare Development/0101226N	
B. Program Change Summary:			
	FY 2000	FY 2001	FY 2002
(U) FY 2001 President's Budget:	3.178	0.879	0.997
(U) Appropriated Value:	3.178	0.879	0.997
(U) Adjustments to FY2000/2001 Appropriated Value/			
FY 2001 President's Budget:	0.679	-0.008	-0.001
(U) FY 2002 PRES Budget Submit:	3.857	0.871	0.996
Funding: FY 2000: Increase of (+\$0.679) is due to +792 for FY2000 actuals and (-\$0.113) for undistributed reductions. FY 2001: Decrease of (-\$0.008) is due to undistributed reductions. FY 2002: Decrease of (-\$0.001) is due to undistributed reductions.			
Schedule: Not Applicable			
Technical: Not Applicable			
C. Other Program Funding Summary:			
D. Acquisition Strategy: Sole Source Contract to Developer for 2 units in FY00, and a one-time Competitive Contract buying out the Backfit market within the FYDP.			
OPN BLI: 221000/221005 Submarine Acoustic Warfare Systems			
	FY 2000	FY 2001	FY 2002
	12.983	10.598	12.624
D. Acquisition Strategy: Multi-year competitive contract for the WLY-1 backfit market starting in FY01 has been delayed.			
E. Schedule Profile: See Attached Schedule			

R-1 SHOPPING LIST - Item No. 179 - 2 of 179 - 5

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

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EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>June 2001</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY//BA-7</b>				R-1 ITEM NOMENCLATURE Program Element (PE) Name and No. Submarine Acoustic Warfare Development/0101226N			

  

	FY00	FY01	FY02						
AN/WLR-9 Technology Insertion		Sensor Development							
			△ At-Sea Test						
		← Transition Phase →							
Anti-Torpedo Torpedo									

R-1 SHOPPING LIST - Item No. 179 - 3 of 179 - 5

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

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Exhibit R-3 Cost Analysis (page 1)										DATE: <b>June 2001</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NAME AND NUMBER						
<b>RDT&amp;E, N/BA-7</b>			<b>Sub Acoustic Warfare Dev/0101226N</b>				<b>Submarine Defensive Warfare Systems/V1265</b>						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date				
Primary Hardware Development	C/CPAF	Northrop Grum Melville, NY	35.545	1.917	02/00								
Ancillary Hardware Development													
Systems Engineering	C/CPAF	General Dyn Groton,CT	4.778										
Systems Engineering	WR	PNSY	0.730										
Systems Engineering	WR	NUWC Newport, RI	2.763	1.073	02/00	0.549	11/00	0.549	11/01				
Systems Engineering	WR	NSWC Crane, IN	0.000	0.291	04/00			0.100					
Tooling													
GFE													
Award Fees													
Subtotal Product Development			43.816	3.281		0.549		0.649					
Remarks: Award Fees: (FY - Amount Budgeted - % Awarded) FY92 - \$205,367 - 57%      FY95 - \$63,010 - 49%      FY98 - \$220,000 - 74% FY93 - \$184,830 - 66%      FY96 - \$271,199 - 88%      FY99 - \$234,566 - 77% FY94 - \$154,025 - 78%      FY97 - \$258,198 - 83%      FY00 - \$215,940 - 78%													
Development Support Equipment													
Software Development													
Training Development													
Integrated Logistics Support													
Configuration Management													
Technical Data													
GFE													
Miscellaneous	WR		0.196	0.000	Various	0.072	Various	0.072	Various				
Subtotal Support			0.196	0.000		0.072		0.072					
Remarks:													

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Exhibit R-3 Cost Analysis (page 2)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N/BA-7			Sub Acoustic Warfare Dev/0101226N			Submarine Defensive Warfare Systems/V1265						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			
Developmental Test & Evaluation	WR	OPTEVFOR Norfolk, VA	0.055									
Operational Test & Evaluation	WR	OPTEVFOR Norfolk, VA		0.076	03/00							
Operational Test & Evaluation												
GFE												
Subtotal T&E			0.055	0.076		0.000		0.000				
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	C/CPFF	RM Vredenburg Reston, VA	1.517	0.400	11/99	0.200	12/00	0.200	12/00			
Travel		PMS415	0.210	0.100		0.050		0.075				
Labor (Research Personnel)												
Overhead												
Subtotal Management			1.727	0.500		0.250		0.275				
Remarks:												
Total Cost			45.794	3.857		0.871		0.996				
Remarks:												

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