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Exhibit R-2, RDT&E Budget Item Justification	Date: FEB 1999
APPROPRIATION/BUDGET ACTIVITY RDT&E / BA 7	R-1 ITEM NOMENCLATURE Program Element (PE) Name and No.: Submarine Acoustic Warfare Development / 0101226N

COST (\$ in Millions)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total P.E. Cost	5.7	8.1	3.2	.9	1.0	1.1	3.0	8.8	CONT.	CONT.
Submarine Defensive Warfare / V1265	5.7	8.1	3.2	.9	1.0	1.1	3.0	8.8	CONT.	CONT.
Quantity of RDT&E Articles & cost										

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 (AN/WLY-1) 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. 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.

1. FY 1998 ACCOMPLISHMENTS:
 - (U) (\$5.747) Continued fabrication and development testing and conducted At-Sea test for the AN/WLY-1.
2. FY 1999 PLAN:
 - (U) (\$7.948) Complete sensor and software development and continue Phase II design review.
 - (U) (\$0.132) Portion of extramural program is reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.
3. FY 2000 PLAN:
 - (U) (\$3.195) Complete Phase II Design Review and conduct TECHEVAL/OPEVAL for the AN/WLY-1 system.

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B. Program Change Summary:

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
FY 1999 President's Budget:	5.800	8.328	6.535
Appropriated Value:	6.058	8.328	
Adjustment to FY 1998/99 Appropriated Value/ FY 1999 President's Budget::			
a) FY98 SBIR Transfer	-.106		
b) Federal Technology Transfer	-.001		
c) Countermeasure Adjustment			-3.300
d) Outsourcing Adjustment			-.006
e) NWCF Rates			+.007
f) Minor Pricing Adjustments	-.003	-.027	+.005
g) FY1998 Update	+.054		
h) Contract Advisory & Assistance		-.221	
i) No Pay Inflation			-.046
FY 2000/01 PRES Budget Submit:	5.747	8.080	3.195

Funding: FY 1998: FY98 SBIR Transfer (-\$.106), Federal Technology Transfer (-\$.001), FY1998 Update (+\$.054), and
 Minor Pricing Adjustment (-\$.003)
 FY 1999: Minor Pricing Adjustment (-\$.027), and Contract and Advisory Assistance (-\$.221)
 FY 2000: Countermeasure Adjustment (-\$3.300), Outsourcing Adjustment (-\$.006), NWCF Rates (+\$.007),
 Minor Pricing Adjustment (+\$.005), and No Pay Inflation (-\$.046)

Schedule: Not Applicable

Technical: Not Applicable

C. Other Program Funding Summary:

OPN BLI: 221000/221005
 Submarine Acoustic Warfare Systems

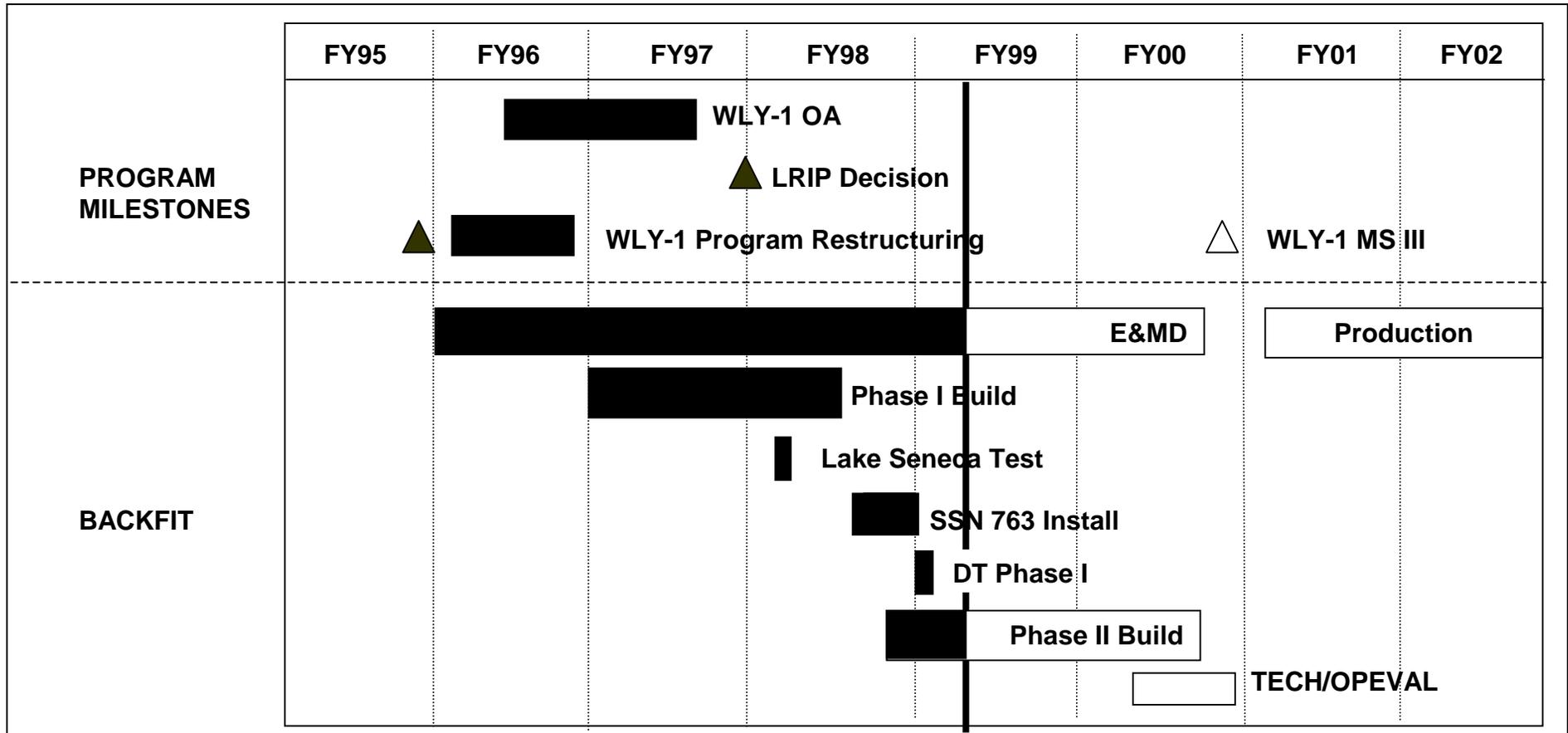
<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Complete CONT.</u>	<u>Total Cost CONT.</u>
3.539	7.296	11.202	10.448	13.691	21.247	30.513	33.296		

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.

E. Schedule Profile: See Next Page

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Exhibit R-2 RDT&E Budget Item Justification
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Exhibit R-3 Cost Analysis		Date: FEB 1999
APPROPRIATION/BUDGET ACTIVITY RDT&E / BA 7	Program Element Name & No.: Submarine Acoustic Warfare Development / 0101226N	Project Name and Number: Submarine Defensive Warfare Systems / V1265

Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPAF	Northrop Grumman Norden Systems Melville, NY	31.5	3.250	12/98	.810	11/99			0	35.560	35.560
System Engineering	C/CPAF	General Dynamics Groton, CT	4.778	.939	01/99	0				0	5.717	5.717
System Engineering	WR	PNSY	.730	.100	11/98	0				0	.830	.830
System Engineering	WR	NUWC DIVNPT Newport, RI		2.245	11/98	.510	11/99			CONT.	CONT.	CONT.
Subtotal Product Development			37.008	6.534		1.320				CONT.	CONT.	CONT.
Remarks: Award Fees: (FY - Amount Budgeted - % Awarded) FY92 - \$205,367 - 57% FY95 - \$63,010 - 49% FY93 - \$184,830 - 66% FY96 - \$271,199 - 88% FY94 - \$154,025 - 78% FY97 - \$258,198 - 83%												
Miscellaneous	WR		0	.696	Var.	0				CONT.	CONT.	CONT.
Subtotal Support			0	.696		0				CONT.	CONT.	CONT.
Remarks:												

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Exhibit R-3 Cost Analysis		Date: FEB 1999
APPROPRIATION/BUDGET ACTIVITY RDT&E / BA 7	Program Element Name & No.: Submarine Acoustic Warfare Development / 0101226N	Project Name and Number: Submarine Defensive Warfare Systems / V1265

Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total Pys Cost	FY99 Cost	FY99 Award Date	Fy00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	OPTEVFOR Norfolk, VA	.055	0		1.175	11/99			0	1.230	1.230
Subtotal T&E			.055	0		1.175				0	1.230	1.230
Remarks:												
Program Management Support	C/CPFF	RM Vredenburg Reston, VA	.750	.750	12/98	.600	12/99			CONT.	CONT.	CONT.
Travel		PMS415	.110	.100		.100				CONT.	CONT.	CONT.
Subtotal Management			.860	.850		.700				CONT.	CONT.	CONT.
Remarks:												
Total Cost			37.923	8.080		3.195				CONT.	CONT.	CONT.
Remarks:												

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