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Exhibit R-2, RDT&E Budget Item Justification	Date: February 1999
APPROPRIATION/BUDGET ACTIVITY RDT&E / BA 4	R-1 ITEM NOMENCLATURE Program Element (PE) Name and No.: Surface Ship Torpedo Defense / 0603506N

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	0.0	5.0	0.640	0.0	0.0	0.0	0.0	0.0	CONT.	CONT.
Joint US /UK Surface Ship Torpedo Defense – V2045	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT.	CONT.
Surface Ship Torpedo Defense – V0225	0.0	0.0	0.640	0.0	0.0	0.0	0.0	0.0	CONT.	CONT.
Quantity of RDT&E Articles & cost										

A. Mission Description and Budget Item Justification: Project V2045 continues a joint collaborative program with the United Kingdom to develop promising technologies identified during the recent demonstration / validation phase of the program, such as the mobile expendable acoustic decoy, concept one countermeasures, improved torpedo detection classification and localization, and improved performance of the AN/SLQ-25A in shallow water/littoral regions. Project V0225 continues the AN/SLQ-25A winch and tow upgrade efforts.

1. FY 1998 ACCOMPLISHMENTS:

- (U) (\$0)

2. FY 1999 PLAN:

- (U) (\$2.363) Develop an AN/SLQ-25A Winch and Tow Upgrade ECP to Improve Performance in Littoral, Shallow Water Operations.
- (U) (\$0.900) Complete the Mobile Expendable Acoustic Countermeasure (MSCAD) D&V Development by conducting an end-to-end In-Water Demonstration Test.
- (U) (\$0.750) Develop a structured, impartial evaluation system and evaluate Promising Technologies to Improve the Performance of the Detection classification, and Localization (DCL) Processing Component of Surface Ship Torpedo Defense. The Technologies Selected will be Available for Implementation into the DCL (TRAFS) Component of the AN/SQQ-89 System.
- (U) (\$0.850) Conduct Large Deck Ship Study to Evaluate Present and Potential Concepts and Technologies (ASN (RD&A) Memo Dated APR 20, 1998). These Concepts May Be Used to Force Applications Which Would Focus on the Protection of Large Deck Ships Against Torpedo Attacks. Conduct Studies of Area Torpedo Defense Concepts. Develop an improved scattering mechanism for Concept 1 countermeasure.
- (U) (\$0.126) Portion of Extramural Program is Reserved for Small Business Innovation Research Assessment in Accordance with 15 USC 638.

3. FY 2000 PLAN:

- (U) (\$.640) Follow-On to AN/SLQ-25A Winch and Tow Upgrade Efforts.

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B. Program Change Summary:

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
FY 1999 President's Budget:	0	0	0	0
Appropriated Value:		5.000	.650	
Adjustment to FY 1998 Appropriated Value/ FY 1999 President's Budget:				
a) Revised Economic Assumptions/inflation		-.011	-.010	
FY 2000 PRES Budget Submit:	0	4.989	.640	0

Funding: FY 1998: Not Applicable
 FY 1999: Revised Economic Assumptions (-\$.011)
 FY 2000: Inflation (-.010)
 FY 2001: Not Applicable

Schedule: Not Applicable

Technical: Not Applicable

C. Other Program Funding Summary:

OPN BLI: 217600/217605
 Undersea Warfare Support Equipment

	<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>
	.382	.833	1.240	0	0	0	.949	0		

D. Acquisition Strategy: Not Applicable

E. Schedule Profile: Not Applicable

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