

CLASSIFICATION:

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EXHIBIT R-2, RDT&E Budget Item Justification							DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-4					R-1 ITEM NOMENCLATURE Radiological Controls/0603542N					
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost	0.585	0.567	1.056						CONT.	CONT.
RADIAC Development/S1830	0.585	0.567	1.056						CONT.	CONT.
Quantity of RDT&E Articles										
<p>A. Mission Description and Budget Item Justification:</p> <p>Project S1830 coordinates all Navy efforts for the development of nuclear radiation detection devices in direct support of the Navy Nuclear Propulsion Program and other users by providing accurate, reliable Health Physics instrumentation at the lowest possible life cycle cost. Reliable radiation monitoring instruments are needed to ensure the radiological safety of Navy personnel. This includes hand-held RADIAC meters, personnel dose measurement devices, and area monitors used to measure radiation fields. The Navy Dosimetry System will be able to meet new NRC regulations and will provide sensitive measurements down to the levels required for all new and imminent health and safety requirements. The Multifunction RADIAC will cut calibration costs and reduce the requirements for spare parts by replacing over 16 different models of obsolete equipment. New requirements for the measurement of lower neutron levels necessitate the development of modernized instrumentation. The program is critical to joint-service radiation safety initiatives within DOD and has been coordinated with Army, Air Force, and Defense Nuclear Agency personnel to achieve the maximum cross-service applicability.</p>										

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<p>(U) Program Accomplishments and Plans:</p> <p>FY 2000 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> - (U) (\$.292) Continue the development of Navy Dosimetry System. - (U) (\$.293) Continue the development of MFR directional gamma probe. Continue the development of extendable probe and frisker station. <p>FY 2001 PLAN:</p> <ul style="list-style-type: none"> - (U) (\$.249) Complete the development of the Navy Dosimetry System. - (U) (\$.254) Complete the extendable probe and frisker station and begin the development of neutron probe. - (U) (\$.064) Resume development of the casualty dosimeter. <p>FY 2002 PLAN:</p> <ul style="list-style-type: none"> - (U) (\$.714) Continue development of the MFR neutron probe and begin development of the radiography probe. - (U) (\$.146) Complete development of the casualty dosimeter. - (U) (\$.196) Begin enhancements for the Navy Dosimetry System. <p>B. Program Change Summary:</p> <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th></th> <th style="text-align: right;">FY 2000</th> <th style="text-align: right;">FY 2001</th> <th style="text-align: right;">FY 2002</th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: right;">0.601</td> <td style="text-align: right;">0.572</td> <td style="text-align: right;">0.566</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">0.601</td> <td style="text-align: right;">0.572</td> <td style="text-align: right;">0.566</td> </tr> <tr> <td>(U) Adjustment to FY 2000/2001 Appropriated Value/FY 2001 President's Budget</td> <td style="text-align: right;">-0.016</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.500</td> </tr> <tr> <td>(U) .7% Pro-Rata Reduction</td> <td></td> <td style="text-align: right;">-0.004</td> <td></td> </tr> <tr> <td>(U) Minor Pricing Adjustments</td> <td></td> <td style="text-align: right;">-0.001</td> <td style="text-align: right;">-0.010</td> </tr> <tr> <td>(U) FY 2002 PRES Budget Submit:</td> <td style="text-align: right;">0.585</td> <td style="text-align: right;">0.567</td> <td style="text-align: right;">1.056</td> </tr> </tbody> </table>				FY 2000	FY 2001	FY 2002	(U) FY 2001 President's Budget:	0.601	0.572	0.566	(U) Appropriated Value	0.601	0.572	0.566	(U) Adjustment to FY 2000/2001 Appropriated Value/FY 2001 President's Budget	-0.016	0.000	0.500	(U) .7% Pro-Rata Reduction		-0.004		(U) Minor Pricing Adjustments		-0.001	-0.010	(U) FY 2002 PRES Budget Submit:	0.585	0.567	1.056
	FY 2000	FY 2001	FY 2002																											
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(U) FY 2002 PRES Budget Submit:	0.585	0.567	1.056																											

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-4			R-1 ITEM NOMENCLATURE Radiological Controls/0603542N											
<p>Change Summary Explanation: Funding: The FY01 decrease of (\$.020M) is for Adjustments for FY 2000/2001 Appropriated Value. The FY 01 decrease of (\$.004M) is for .7% Congressional Pro-Rata reduction and (\$.001M) in minor pricing adjustments. The FY 02 decrease of (\$.010M) is for minor pricing adjustments.</p> <p>Schedule: Not applicable. Technical: Not applicable.</p> <p>C. Other Program Funding Summary:</p> <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 10%;">FY 2000</th> <th style="width: 10%;">FY 2001</th> <th style="width: 10%;">FY 2002</th> <th style="width: 40%; text-align: right;">To Complete</th> </tr> </thead> <tbody> <tr> <td>OPN BLI: 292000 RADIAC</td> <td style="text-align: center;">4.168</td> <td style="text-align: center;">8.232</td> <td style="text-align: center;">7.876</td> <td style="text-align: right;">CONT.</td> </tr> </tbody> </table> <p>D. Acquisition Strategy: Development efforts are being focused on evaluation, modification (as required to meet operational requirements), and adaptation of Commercial Off-The-Shelf technology in order to minimize total ownership costs. To the maximum extent possible new contracts are targeted for fixed price efforts to control development cost.</p> <p>E. Schedule Profile: Dosimetry System Delivery of Advance Development Systems – 2/00 Completion of Testing – 6/00 Milestone III Decision – 8/01 Initial Operational Capability – 12/02 MFR Enhancements/Probe Development Delivery of Prototypes for Extendable Probe (EP) – 1/99 Completion of Testing for EP – 4/99</p>						FY 2000	FY 2001	FY 2002	To Complete	OPN BLI: 292000 RADIAC	4.168	8.232	7.876	CONT.
	FY 2000	FY 2001	FY 2002	To Complete										
OPN BLI: 292000 RADIAC	4.168	8.232	7.876	CONT.										

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE:
		June 2001
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-4	Radiological Controls/0603542N	
<p>MFR Enhancements/Probe Development con't.</p> <p> Delivery of Revised Prototype - 3/01</p> <p> Completion of Testing of Revised Prototype- 7/01</p> <p> Production Contract Awarded for EP – 10/01</p> <p> Delivery of Prototypes for Directional Gamma Probe (DGP) – 11/99</p> <p> Completion of Testing for DGP – 4/00</p> <p> Production Contract Awarded for DGP – 6/01</p> <p> Award Contract for Frisker Station Development - 4/00</p> <p> Delivery of Frisker Station – 12/00</p> <p> Completion of Testing of Frisker Station – 5/01</p> <p> Production Contract Awarded for Frisker Station - 10/01</p> <p>Casualty Dosimeter</p> <p> Complete SBIR Phase II Testing – 1/99</p> <p> Complete Testing of revised Casualty Dosimeter - 9/01</p> <p>IM-239 Enhancements</p> <p> Award Enhancement Contract – 3/00</p> <p> Delivery of Test Samples – 12/00</p> <p> Test and Evaluation Complete - 4/01</p>		

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Exhibit R-3 Cost Analysis (page 1)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N/BA-4			Radiological Control/0603542N			RADIAC Development Project - S1830						
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	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev Dosimetry	C/FP	Various (See below)	8.697	0.000		0.000		0.000		CONT.	CONT.	
Primary Hardware Dev Miscellaneous	C/FP	Various	6.092			0.000		0.481	03/02	CONT.	CONT.	
Ancillary Hardware Development											0.000	
Systems Engineering	WR			0.380	12/99	0.370	10/00	0.319	10/01		1.069	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			14.789	0.380		0.370		0.800		CONT.	CONT.	
Remarks: Prior to 8/96 - International Sensor Technology, Pullman, Washington 12/96 - 7/98 - Keithley Radiation Measurements, Cleveland, Ohio Follow-on contract will be competed												
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	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks: Not applicable												

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Exhibit R-3 Cost Analysis (page 2)								June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N/BA-4			Radiological Control/0603542N			RADIAC Development Project/S1830						
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	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	Various	3.323	0.195	12/99	0.187	10/00	0.246	10/00	CONT.	CONT.	
Operational Test & Evaluation			0.329								0.329	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			3.652	0.195		0.187		0.246		CONT.	CONT.	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support	WR	Various	5.045							CONT.	CONT.	
Program Management Support	WR	Various	5.046							CONT.	CONT.	
Travel			0.010	0.010	12/99	0.010	10/00	0.010	10/00	CONT.	CONT.	
Labor (Research Personnel)			0.788								0.788	
Overhead											0.000	
Subtotal Management			10.889	0.010		0.010		0.010		CONT.	CONT.	
Remarks:												
Total Cost			29.330	0.585		0.567		1.056		CONT.	CONT.	
Remarks:												

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