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Exhibit R-2, RDT&E Budget Item Justification								Date: 02/1999		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-wide / BA-4					R-1 ITEM NOMENCLATURE Integrated Diagnostics 0603708D8Z					
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 PE Cost	2,742	3,394	0.0	0.0	0.0	0.0	0.0	0.0	0	
<p>A. Mission Description and Budget Item Justification The program element provided funding for large scale, high leverage demonstrations of the integrated application of existing commercial and DoD technologies, practices, standards and products for order of magnitude weapon system affordability and support improvements. Demonstrations were selected to 1) measure the risks and show the feasibility of payoff from selected technology applications and 2) show novel or unorthodox alternatives to conventional weapon system acquisition and support. Demonstrations showed technology applications which provide a highly integrated and automated set of weapon system support capabilities (built in test, factory, depot, and test equipment, technical information, etc.). The demonstrations were intended to lead to reduced maintenance man-hours, "per weapon system" deployment tails, and weapon system acquisition and ownership costs. The demonstrations examined leveraging industry manufacturing processes and integrated acquisition processes/technology approaches to address systemic weapon system production and support affordability drivers.</p> <p>The projects have demonstrated the value of incorporating integrated diagnostics approaches for weapon systems support and the methodologies used to acquire and manage diagnostics. After recognizing the value and the low risk of this approach, Service weapon program managers have begun or are planning to incorporate integrated diagnostics in new platforms such as the JSF, F/A-18E/F, surface combatant ships, and missile defense. The program was also instrumental in establishing DoD Automatic Test System policy. This program has achieved its original goal to "seed" these approaches in the acquisition community, therefore the Department concluded this program.</p> <p>B. Program Change Summary: The Department has concluded this program.</p> <p>C. Other Program Funding Summary: Not Applicable</p> <p>D. Acquisition Strategy: As preconditions to initiating a demonstration, Service managers committed to provide the R&D or procurement investment to transition the products to the selected demonstration field weapon system fleet and to incorporate products and concepts into new weapon systems designs for long-term payoffs.</p> <p>E. Schedule Profile:</p>										

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Fiscal Year events by quarter:	FY1998				FY1999				FY2000				FY2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Joint Factory-to-Field Demonstration																
Modify test hardware/software	x															
Complete instrument interface demonstration		x														
Complete test program interface demonstration				x												
Coordinate architecture standards					x											
Trident Launcher Demonstration																
Conduct land-based integration tests			x													
Conduct in-field tests							x									
Complete tests and final report											x					
Diagnostics for Acquisition Demonstration																
Modify test hardware/software				x												
Translate test strategy and rehost on legacy ATS							x									
Complete field demonstration											x					