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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY  
 1319: Research, Development, Test & Evaluation, Navy  
 BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE  
 PE 0205633N: Aviation Improvements

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	121.986	133.611	123.012	-	123.012	118.817	117.581	118.672	118.705	Continuing	Continuing
0601: Act Handling & Service Equip	4.496	1.849	6.522	-	6.522	7.786	8.600	7.311	3.266	Continuing	Continuing
0852: Consolidated Auto Support System	20.119	31.926	28.501	-	28.501	8.403	6.633	6.777	6.898	Continuing	Continuing
1041: Act Equip Repl/Maint Prog	4.040	4.230	3.020	-	3.020	3.292	3.367	3.444	3.496	Continuing	Continuing
1355: Propulsion and Power Component Improvement Program	63.769	75.583	62.379	-	62.379	83.611	82.310	86.775	90.451	Continuing	Continuing
3189: Digital I-TER	0.900	-	0.001	-	0.001	-	-	-	-	0.000	0.901
3190: Multi-Purpose Bomb Racks	20.854	20.023	22.589	-	22.589	15.725	16.671	14.365	14.594	Continuing	Continuing
9999: Congressional Adds	7.808	-	-	-	-	-	-	-	-	0.000	7.808

**A. Mission Description and Budget Item Justification**

Project 0601 - Common Ground Equipment is a Naval Aviation Project to apply new technology to common support equipment necessary to support multiple aircraft. Project 0852 - Consolidated Automated Support System is a standardized Automated Test Equipment with computer assisted, multi-function capabilities to support the maintenance of aircraft subsystems and missiles. Project 1041 - Aircraft Equipment Reliability/Maintainability Improvement Program is the only Navy program that provides engineering support for in-service out-of-production aircraft equipment, and provides increased readiness at reduced operational and support cost. Project 1355 - Aircraft Engine Component Improvement Program develops reliability and maintainability and safety enhancements for in-service Navy aircraft engines, transmissions, propellers, starters, auxiliary power units, electrical generating systems, fuel systems, fuels, and lubricants. Project 3189 - is the Digital ITER program. The Digital ITER develops an increased capability to the existing BRU-42 Improved Triple Ejector Rack (ITER) for the AV-8B, which adds a multiple carriage capability for Smart Weapons. Project 3190 - is the Multi-Purpose Bomb Rack (MPBR). The MPBR will replace the BRU-41/42/33/55 and provide use for both tactical and training stores on one common rack. The MPBR will be integrated on the F/A-18E/F as part of this project. Project 9999 is Congressional Adds.

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	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>B. Program Change Summary (\$ in Millions)</b>					
Previous President's Budget	134,612	133,611	135,621	-	135,621
Current President's Budget	121,986	133,611	123,012	-	123,012
Total Adjustments	-12,626	-	-12,609	-	-12,609
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-9,192	-	-	-	-
• SBIR/STTR Transfer	-2,614	-	-	-	-
• Program Adjustments	-	-	-11,035	-	-11,035
• Section 219 Reprogramming	-0,811	-	-	-	-
• Rate/Misc Adjustments	-	-	-1,574	-	-1,574
• Congressional General Reductions Adjustments	-0,009	-	-	-	-

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

Project: 9999: Congressional Adds	FY 2010	FY 2011
Congressional Add: <i>Highly Conductive Lightweight Aircraft Sealant</i>	0.956	-
Congressional Add: <i>Laser Peening for P-3 Life Extension</i>	1.275	-
Congressional Add: <i>Arc Fault Circuit Breaker With Arc Location System</i>	0.797	-
Congressional Add: <i>Wireless Sensors For Navy Aircraft</i>	2.390	-
Congressional Add: <i>Lightweight Composite Structure Dev For Aerospace</i>	2.390	-
Congressional Add Subtotals for Project: 9999	7.808	-
Congressional Add Totals for all Projects	7.808	-

**Change Summary Explanation**

Schedule:  
 Project 0601: The Engineering Change Proposal documentation efforts for the Turboprop Engine Test Instrumentation program took longer to complete than originally scheduled. Milestones have been revised to reflect the new schedule. The contract for the prototype Shipboard Firefighting Vehicle (SFV) was awarded to The Entwistle Co. on 31 March 2010. It was a sole source type contract that took longer to award than originally anticipated. As a result, the

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