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**Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604227N: <i>Harpoon Modifications</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	44.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	110.324
1843: <i>Harpoon Block III</i>	44.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	110.324

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

The Harpoon Block III Weapons System was intended to upgrade and expand the capabilities of the Navy's only anti-ship, all weather missile to improve its precision in a congested, littoral environment. Modification of the RGM-84D and AGM-84D Harpoon 1C baseline missile will provide for Global Positioning System (GPS) accuracy, target selectivity in a littoral environment, and in-flight target position update solutions as well as positive terminal control. It would provide total organic capability (i.e. Autonomous Surface Group capability). Specific improvements would enable significant target discrimination as well as minimized target-to-shore separation capability, Battle Hit Indications (BHI), connectivity with future network architecture, and Land Blanking capability. Harpoon Block III would provide for a concept of operations that will take advantage of existing Intelligence, Surveillance and Reconnaissance (ISR) Platform target detection and target/weapon position updates (i.e. UAV, Helo, Fixed wing).

The Department of the Navy cancelled the Harpoon Blk III program via Acquisition Decision Memorandum dated 14 April 2009. Assistant Secretary of the Navy for Research Development and Acquisition directed the use FY2009 funds to execute an orderly program cancellation and fund external program linkages cost share commitments (F/A-18 H8E Operational Flight Program (OFP), Next Generation Command and Control Processor (NGC2P) and Strike Common Weapon Data Link (SCWDL)). Additionally, PEO(U&W) was directed to coordinate with OPNAV N4 to resource those tasks required to ensure Harpoon Block IC sustainment of current fleet readiness. The Air Harpoon Shipping Container (MK607) has been identified as a degrader to current fleet readiness due to moisture intrusion problems which have resulted in the total loss of 30 missiles since 1998.

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**B. Program Change Summary (\$ in Millions)**

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	67.845	0.000	0.000	0.000	0.000
Current President's Budget	44.350	0.000	0.000	0.000	0.000
Total Adjustments	-23.495	0.000	0.000	0.000	0.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-9.999	0.000			
• SBIR/STTR Transfer	-2.046	0.000			
• Congressional Recision Adjustments	-11.450	0.000	0.000	0.000	0.000

**Change Summary Explanation**

Technical: Not applicable.

Schedule: Not applicable.

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2011 Navy **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604227N: <i>Harpoon Modifications</i>	<b>PROJECT</b> 1843: <i>Harpoon Block III</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
1843: <i>Harpoon Block III</i>	44.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	110.324
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

The Harpoon Block III Weapons System was intended to upgrade and expand the capabilities of the Navy's only anti-ship, all weather missile to improve its precision in a congested, littoral environment. Modification of the RGM-84D and AGM-84D Harpoon 1C baseline missile will provide for Global Positioning System (GPS) accuracy, target selectivity in a littoral environment, and in-flight target position update solutions as well as positive terminal control. It would provide total organic capability (i.e. Autonomous Surface Group capability). Specific improvements would enable significant target discrimination as well as minimized target-to-shore separation capability, Battle Hit Indications (BHI), connectivity with future network architecture, and Land Blanking capability. Harpoon Block III would provide for a concept of operations that will take advantage of existing Intelligence, Surveillance and Reconnaissance (ISR) Platform target detection and target/weapon position updates (i.e. UAV, Helo, Fixed wing).

**B. Accomplishments/Planned Program (\$ in Millions)**

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
SURFACE HARPOON BLOCK III DESIGN/DEVELOPMENT <i>FY 2009 Accomplishments:</i> FY09: Funding is for missile and ship kit design, prototype development and fabrication, Missile Guidance Control Unit design and integration, data link and GPS integration and missile Operational Flight Program (OFF) software design and development. Following the cancellation of Harpoon Block III program, funding also supports design and development cost share with the Strike Common Weapon Data Link (SCWDL) and Next Generation Command and Control Processor (NGC2P) that had been agreed upon prior to program cancellation.	22.457	0.000	0.000	0.000	0.000
AIR HARPOON BLOCK III DESIGN/DEVELOPMENT	19.678	0.000	0.000	0.000	0.000

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**E. Performance Metrics**

Project cancelled successfully,

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