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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603879N: <i>Single Int Air Picture (SIAP) Sys Eng</i>
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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	46.087	-	-	-	-	-	-	-	-	0.000	46.087
3031: <i>Single Integrated Air Picture Sys Eng</i>	46.087	-	-	-	-	-	-	-	-	0.000	46.087

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

The SIAP capability will provide the Navy warfighter with the ability to better understand the joint battlespace and employ weapons to the full extent of their designed capabilities. The SIAP will support the spectrum of offensive and defensive operations by US, allied, and coalition partners in the airspace within a theater of operations (e.g., attack operations, suppression of enemy air defenses, air and missile defense, intelligence preparation of the battlefield). The SIAP is accomplished through a combination of materiel and nonmateriel improvements. This effort through the application of disciplined System Engineering processes, policies, products and services will enable delivery of an integrated, interoperable, reliable, and maintainable Joint SIAP capability in Navy warfare systems/platforms, in the support of Joint and Navy Mission Capabilities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	52.497	-	-	-	-
Current President's Budget	46.087	-	-	-	-
Total Adjustments	-6.410	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-4.450	-			
• SBIR/STTR Transfer	-1.829	-			
• Section 219 Reprogramming	-0.130	-			
• Congressional General Reductions	-0.001	-			
Adjustments					

**Change Summary Explanation**

Technical: Not applicable.

Schedule: Not applicable.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603879N: <i>Single Int Air Picture (SIAP) Sys Eng</i>	<b>PROJECT</b> 3031: <i>Single Integrated Air Picture Sys Eng</i>
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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
3031: <i>Single Integrated Air Picture Sys Eng</i>	46.087	-	-	-	-	-	-	-	-	0.000	46.087
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

The SIAP capability will provide the Navy warfighter with the ability to better understand the joint battlespace and employ weapons to the full extent of their designed capabilities. The SIAP will support the spectrum of offensive and defensive operations by US, allied, and coalition partners in the airspace within a theater of operations (e.g., attack operations, suppression of enemy air defenses, air and missile defense, intelligence preparation of the battlefield). The SIAP is accomplished through a combination of materiel and nonmateriel improvements. This effort through the application of disciplined System Engineering processes, policies, products and services will enable delivery of an integrated, interoperable, reliable, and maintainable Joint SIAP capability in Navy warfare systems/platforms, in the support of Joint and Navy Mission Capabilities.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> DDG MOD PLATFORM SPECIFIC MODEL			
<b>Articles:</b>	46.087 0	-	-
<b>FY 2010 Accomplishments:</b> FY10: Perform the development and integration tasks required to support the Navy in the development and integration of the two common Track Manager components, System Track Manager (STM) and Track Server (TS) into AMOD ACB 12. The two components are being developed by a third party Systems Integrator / Design Agent (SI/DA). Under this effort, work with the SI/DA to integrate and jointly test the two components being developed in support of the ACB 12 Program. The technical focus of this effort is to conduct the required system engineering and associated development using the Aegis AMOD ACB 12 architecture as a base foundation and to implement Track Management architecture and interface changes in accordance with the Component Architecture SV-4. In addition, perform Common Processor System (CPS) and Common Display System (CDS) hardware configuration and software modifications, combined with Computer Enclosure Module (CEM) relocation, to support ACB 12 system requirements.			
<b>Accomplishments/Planned Programs Subtotals</b>	46.087	-	-

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603879N: <i>Single Int Air Picture (SIAP) Sys Eng</i>	<b>PROJECT</b> 3031: <i>Single Integrated Air Picture Sys Eng</i>

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**D. Acquisition Strategy**

The Navy is implementing the SIAP capability into Navy platforms. Individual Programs of Record implementation will allow identification and resolution of key technical, operational and programmatic issues, and provide lessons learned for future integration into Navy systems which have approved SIAP requirements. Implementation in Aegis, E-2, and SSDS platforms will occur per the Office of the Chief of Naval Operations (OPNAV) N8 SIAP Requirements letter and during scheduled software upgrades, to the extent feasible. This implementation of the capability into Navy platforms will occur upon demonstration of certain critical factors and assumptions.

**E. Performance Metrics**

Milestone Reviews