CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	R-1 ITEM NOMENCLATURE **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**						
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	40.374	45.456	41.807	42.875	26.520	23.605	15.858
3031 / Single Integrated Air Picture Sys Eng	38.772	45.456	41.807	42.875	26.520	23.605	15.858
9999 / CONGRESSIONAL ADDS	1.602	0.000	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION:

At the direction of the Office of the Secretary of Defense and working in conjunction with the SIAP Joint Program Office (JPO), the Navy mission is to support the design, development, testing and fielding of a SIAP capability which satisfies requirements mandated by the Global Information Grid (GIG), Theater Air and Missile Defense (TAMD) and Combat Identification (CID) Mission Area Initial Capabilities Documents (MA-ICD). The Undersecretary of Defense Acquisition Memorandum of 3 May 06 validated the requirement for a SIAP capability and concurs with the Navy-designated Pathfinder programs identified for SIAP implementation. VCNO for Resources, Requirements, and Assessments (N8) SIAP implementation guidance of 14 March 06 directs the Navy to implement the SIAP program product, Integrated Architecture Behavior Model (IABM), in the following Navy pathfinder programs: Aegis Cruisers and Destroyers, Hawkeye Aircraft (E-2), and Ship Self Defense System (SSDS) platforms. On 24 September 2007, the Joint Requirements Oversight Council (JROC) approved the Capability Development Document (CDD) establishing official requirements for the SIAP program.

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 support of Joint and Navy Mission Capabilities.

SIAP capability is being introduced through a series of improvements called Capability Drops, targeted at eliminating specific interoperability issues, providing Command, Control, Communications, Computers, & Intelligence (C4I) enhancements, and delivering an executable integrated architecture. The engineering specifications and requirements developed by the engineering efforts will be incorporated into the successive versions of the Joint IABM developed within a two year spiral capability improvement process. The delivered IABM will be used to develop the successive versions of the platform specific applications to be implemented in Navy combat systems requiring the Joint SIAP capability. The IABM will also be used as a standard against which to assess performance of the Navy combat systems in terms of Joint Force interoperability. The Navy is investing in the Open Architecture (OA) construct for many reasons, one of which is to create the combat system computing architecture which will permit the most rapid and least expensive implementation of the IABM and other Joint applications. To that end, this effort also provides some resources to the OA system engineering process. To aid in development of the IABM, Automated Test and Re-Test (ATRT) technology will be used to significantly reduce the test time needed for each platform to validate the IABM functionality.

Implementation of a platform specific application in the Navy Pathfinder combat systems (E-2, Aegis, and SSDS), will reduce risk of fratricide to US/coalition forces caused by incorrect correlation and ID association and enable warfighters to exploit the full kinematic range of their weapons through better Joint Force integration.

This PE provides the resources for the Navy system engineering support to the Joint effort to develop SIAP capability, system engineering support to Navy Pathfinder Programs of Record (E-2, Aegis, SSDS) for integration of the Joint solution, and funding for the implementation in the Aegis combat system leveraging the Guided Missile Destroyer (DDG) Modernization program.

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2007	FY 2008	FY 2009
FY08 President's Budget	41.491	46.450	42.708
President's Budget FY09 DON Submit:	40.374	45.456	41.807
Total Adjustments	-1.117	-0.994	-0.901
Summary of Adjustments			
Congressional Adjustments			
General Rescissions	-0.050	-0.994	
SBIR	-1.067		
BTR/Programmatic Changes	0.000	0.000	-0.901
Subtotal	-1.117	-0.994	-0.901

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
PE 0603327A Air and Missile Defense Systems Engineering	34.854	35.220	18.137	0.000	0.000	0.000	0.000	0.000	116.439
PE 0604307N 1447 DDG Modernization	0.000	32.611	46.660	45.405	25.570	0.000	0.000	0.000	150.246

D. ACQUISITION STRATEGY:

The Navy's implementation of SIAP will use the four-level SE approach. Level 1 SE includes activities such as the Navy's participation in SIAP Operational Test and Evaluation. For Level 2, Navy Subject-Matter Experts (SME) will participate in IABM-related Integrated Product Teams (IPT) and Interface Control Working Groups (ICWG) to define the IABM and its capabilities, requirements, architectures, boundaries, and interfaces. For Level 3, consistent implementation of the SIAP Capability is a Navy Enterprise-level responsibility. The Enterprise level will focus on common Navy requirements and adaptive layer development. This Enterprise-level approach will significantly

reduce cost by enabling reuse of SIAP capability extension and adaptation layers across multiple host platforms. The Navy will focus resources across Pathfinder programs at key platform technical reviews to ensure consistent integration. The Navy will leverage risk reduction and Open Architecture (OA) initiatives to reduce risk and costs associated with IABM integration. Level 4 will concentrate on individual platform integration issues and SE efforts using each program's Systems Engineering Management Plan (SEMP).

E. MAJOR PERFORMERS:

Naval Surface Warfare Center, Dahlgren VA - Surface Combatant System Engineering and Computer Integration

Naval Air Warfare Center Aircraft Division, Patuxent River MD - Aircraft Platform Integration and System Engineering

Space and Warfare Systems Command, San Diego CA - System Communication

Lockheed Martin Corporation, Moorestown NJ

Raytheon Corporation, St. Petersburg, FL and San Diego, CA

John Hopkins University Applied Physics Laboratory, Laurel MD

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**				PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	38.772	45.456	41.807	42.875	26.520	23.605	15.858
RDT&E Articles Qty	0	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

At the direction of the Office of the Secretary of Defense and working in conjunction with the SIAP Joint Program Office (JPO), the Navy mission is to support the design, development, testing and fielding of a SIAP capability which satisfies requirements mandated by the Global Information Grid (GIG), Theater Air and Missile Defense (TAMD) and Combat Identification (CID) Mission Area Initial Capabilities Documents (MA-ICD). The Undersecretary of Defense Acquisition Memorandum of 3 May 06 validated the requirement for a SIAP capability and concurs with the Navy-designated Pathfinder programs identified for SIAP implementation. VCNO for Resources, Requirements, and Assessments (N8) SIAP implementation guidance of 14 March 06 directs the Navy to implement the SIAP program product, Integrated Architecture Behavior Model (IABM), in the following Navy pathfinder programs: Aegis Cruisers and Destroyers, Hawkeye Aircraft (E-2), and Ship Self Defense System (SSDS) platforms. On 24 September 2007, the Joint Requirements Oversight Council (JROC) approved the Capability Description Document (CDD) establishing official requirements for the SIAP program.

The SIAP capability will provide the Navy warfighter with the ability to better understand the 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 the delivery of an integrated, interoperable, reliable, and maintainable Joint SIAP capability in Navy warfare systems/platforms, in support of Joint and Navy Mission Capabilities.

SIAP capability is being introduced through a series of improvements called Capability Drops, targeted at eliminating specific interoperability issues, providing Command, Control, Communications, Computers, & Intelligence (C4I) enhancements, and delivering an executable integrated architecture. The engineering specifications and requirements developed by the engineering efforts will be incorporated into the successive versions of the Joint IABM. The delivered IABM will be used to develop the successive versions of the platform specific applications to be implemented in Navy combat systems requiring the Joint SIAP capability. The IABM will also be used as a standard against which to assess performance of the Navy combat systems in terms of Joint Force interoperability. The Navy is investing in the Open Architecture (OA) construct for many reasons, one of which is to create the combat system computing architecture which will permit the most rapid and least expensive implementation of the IABM and other Joint applications. To that end, this effort also provides some resources to the OA system engineering process. To aid in development of the IABM, Automated Test and Re-Test (ATRT) technology will be used to significantly reduce the test time needed for each platform to validate the IABM functionality.

Implementation of a platform specific application in the Navy Pathfinder combat systems (E-2, Aegis, and SSDS), will reduce the risk of fratricide to US/coalition forces caused by incorrect correlation and ID association and enable our combatant commanders to exploit the full kinematic range of our weapons through better Joint Force integration.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**

This PE provides the resources for the Navy system engineering support to the Joint effort to develop SIAP capability, system engineering support to Navy Pathfinder Programs of Record (E-2, Aegis, SSDS) for integration of the Joint solution, and funding for the implementation in the Aegis combat system leveraging the Guided Missile Destroyer (DDG) Modernization program.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
SIAP Engineering Requirements	0.400	1.781	0.897
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: Completed System Requirements definition by refining System Requirements listing and verified requirements are satisfied in completing the IABM CD-1 System Requirements Review (SRR) in the 2nd quarter.

(U) FY2008 PLAN: Complete CD-1 System development and support System Engineering Review Process for IABM and DDG Modernization program to include DDG Modernization program System Design Review (SDR). Continue to refine the SIAP systems requirements baseline for IABM and support the Aegis Command and Decision (C&D) IABM technical product review. Finalize interface specifications in support of adaptation and interface development for the IABM and host systems. Initiate IABM CD-1 follow-on System Engineering Process to support two significant design reviews - System Requirements Review (SRR) and System Functional Review (SFR). Develop pathfinder's adaptation layer phasing plans (phasing and mapping of the Derived System Requirements) and complete associated Host Interface Description Documents.

(U) FY2009 PLAN: Continue to support System Engineering Review Process for DDG Modernization program to include CD-1 Preliminary Design Review (PDR). Continue System development and support System Engineering Review Process for SIAP Capability Drop 1 follow-on IABM spirals and DDG Modernization program including IABM CD-1 follow-on PDR.

	FY 2007	FY 2008	FY 2009
Architecture Alignment	1.106	0.991	0.971
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: Continued development of Joint architecture for the track manager, external communications, common services, and C2 interfaces and components. Developed or modified architecture artifacts required to support alignment and system integration of the IABM. Completed the IABM CD-1 System Functional Review (SFR) and achieved functional allocation/alignment of Pathfinder Programs of Record (E2, Aegis, SSDS) modernization and IABM design. Provided Navy participation for the JAWG.

(U) FY2008 PLAN: Finalize Joint architecture for IABM Capability Drop 1 Preliminary Design Review (PDR) and CD-1 delivery. Complete CD-1 related platform interface specifications for SIAP pathfinder programs. Initiate CD-1 follow-on Joint architecture modifications (via the JAWG) to address revised requirements baseline and functional alignment of Pathfinder Programs of Record (E2, Aegis, SSDS) and IABM design. Develop or modify architecture artifacts required to support future spiral alignment and system integration of the IABM.

(U) FY2009 PLAN: Complete architecture artifacts and monitor alignment as required for legacy and future systems. Provide Navy participation for the JAWG.

	FY 2007	FY 2008	FY 2009
SIAP System Development	20.329	15.444	10.913
RDT&E Articles Quantity	0	0	0

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTEN/BA 4	**0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	**3031/Single Integrated Air Picture Sys Eng**

(U) FY2007 PLAN: Supported modeling and incorporation of composite tracking capability combat ID, data recording, CEC interoperability, TDL to TDL forwarding, P2P to TDL forwarding, Automated Battle Management Aids (ABMA), and system status and control functionality in the SIAP IABM. Developed prototype adaptation layers for AN/SPY-1, UXP-29, SPQ-9B, Data Distribution System (DDS), AN/APS-145 and OL-483/AP. Developed host service interfaces for C2, communications terminals, navigation, time, and position inputs and corrections in preparation for the Common Network Interface (CNI) At-Sea Demonstration. Completed Aegis C&D software partitioning and migration to Open Architecture. Integrated early IABM iterations and developed prototype adaptation layers and interfaces to support land based lab demonstrations for Aegis and E-2 and an At-Sea demo for the CNI program. Defined interface (IDD/IDS) specifications for IABM sensors, host Command and Control (C2), external communications, and common services (Navigation, Time, Data Extraction, etc.).

(U) FY2008 PLAN: Support modeling development and incorporation of improved composite tracking capability, combat ID, track management, CEC Interoperability, Tactical Data Link (TDL) to TDL forwarding, P2P to TDL forwarding and system control functionality in the SIAP IABM for Capability Drop 1. Continue Adaptive Layer development of Sensor, Incoming Friend or Foe (IFF), TDL, DDS, and interface development for Host Command and Control, Common Services (Navigation, Time, Data Extraction, etc) required for Aegis and E-2.

(U) FY2009 PLAN: Integrate early CD-1 builds into platform specific implementations in Aegis and E-2 Hawkeye 2000 program to support JCHE Phase 5, E-2 Integrated Lab Demonstration, Aegis Integration & Test, and Joint Collaborative Test events. Support modeling and incorporation of improved composite tracking capability, combat ID, track management, CEC Interoperability, TDL to TDL forwarding, P2P to TDL forwarding and system control functionality in the SIAP IABM for CD-1 follow-on. Continue production-level Sensor, IFF, TDL, DDS, Adaptation Layer development and interface development for Host Command and Control, Common Services (Navigation, Time, Data Extraction, etc) required for Aegis and E-2. Begin development of ALQ-217, Shipboard Advanced Radar Target Identification System (SARTIS), and SLQ-32 Adaptive Layers for Host Command and Control, Common Services (Navigation, Time, Data Extraction, etc) required for Aegis and E-2.

	FY 2007	FY 2008	FY 2009
SIAP Test Planning and Execution	6.337	9.215	8.229
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: As necessary, updated SIAP TEMP and monitored execution. Planned and executed Engineering Assessments of the IABM focused on delivery of the IABM to support implementation of SIAP Capability Drop 1. Continued Alpha and Beta product testing and provided feedback and TOR to the SIAP JPO. Conducted assessments during the planned land-based and CNI At-Sea demo. Conducted Joint Combined Hardware-in-the-loop Evaluation (JCHE) Phase 4. Conducted analysis and prepare test reports for this event.

(U) FY2008 PLAN: Finalize the SIAP TEMP in support of the SIAP Milestone B DAB. Conduct planning for Navy SIAP IV&V and Navy participation in Joint Combined Hardware-in-the-loop Evaluation (JCHE) phase 5 event for IABM Capability Drop 1 . Continue Joint collaborative testing. Conduct E-2 and Aegis Integration & Test events of the IABM to mitigate implementation risk of IABM Capability Drop 1. Coordinate required assets in preparation for formal Navy SIAP Developmental Testing (DT) to begin in FY2009.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**

(U) FY2009 PLAN: As necessary, update SIAP TEMP for IABM CD-1 and follow-on efforts and monitor execution. Complete planning and conduct Navy SIAP IV&V and Navy participation in Joint Combined Hardware-in-the-loop Evaluation (JCHE) phase 5 event for IABM Capability Drop 1. Support Joint Level Test Readiness Review and Joint Interoperability Test Command (JITC) conformance testing of IABM CD-1 and related DT/OT events. Plan and execute Engineering Assessments of the IABM focused on delivery of the IABM to support implementation of SIAP CD-1 follow-on.

	FY 2007	FY 2008	FY 2009
SIAP Integration Coordination and Planning	0.600	2.379	1.747
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: Monitor and support execution of the Navy IABM Integration Plan. Continued preparations for Milestone B DAB. Maintained Navy IABM Implementation Plan and SIAP Acquisition Strategy to support other Navy future and legacy platforms. Conducted planning for Risk Mitigation and configuration management activities. Capability Development Document (CDD) approved by JROC.

(U) FY2008 PLAN: Complete preparations and update documentation (Cost Analysis Requirements Document (CARD), Program Life Cycle Cost Estimate (PLCCE), System Engineering Plan (SEP), Acquisition Strategy (AS), Capability Development Document (CDD), Acquisition Program Baseline (APB)) to support the SIAP Milestone B DAB. Begin preparation of required documentation (Capability Production Document (CPD), Program Protection Plan (PPP), and information Support Plan (ISP)) in support of a SIAP Milestone C DAB in FY09. Maintain Navy IABM Implementation Plan and SIAP Acquisition Strategy to support other Navy future and legacy platforms. Conduct planning for Risk Mitigation and configuration management activities. Monitor and support execution of the Navy IABM Integration Plan.

(U) FY2009 PLAN: Complete preparations and update documentation (Capability Development Document (CDD), Acquisition Program Baseline (APB), Initial Capabilities Document (ICD), Capability Production Document (CPD), Program Protection Plan (PPP), Information Support Plan (ISP), and update CARD, PLCCE, SEP, and AS) to support the SIAP Milestone C DAB. Conduct planning for Risk Mitigation and configuration management activities. Monitor and support execution of the Navy IABM Integration Plan.

	FY 2007	FY 2008	FY 2009
DDG Mod Platform Specific Model	10.000	15.646	19.050
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: Develop requirements and system definition documents in support of planned FY08 development of the Platform Specific Model (PSM) for integration of SIAP capability into Aegis C&D computer program. Specific tasks include identifying modifications required for existing computer program.

(U) FY2008 PLAN: Begin translation of the IABM Platform Independent Model (PIM) at the component level and develop Platform Specific Model (PSM) and Platform Specific Implementation (PSI) in conjunction with Aegis Modernization (AMOD) Commercial Off-The-Shelf (COTS) Refresh Three (CR3) development and testing to support fielding in FY13. Aegis is required to integrate all of the applicable functionality provided by the IABM CD-1 and required partitioning of existing AMOD software and modify existing applications required for successful integration.

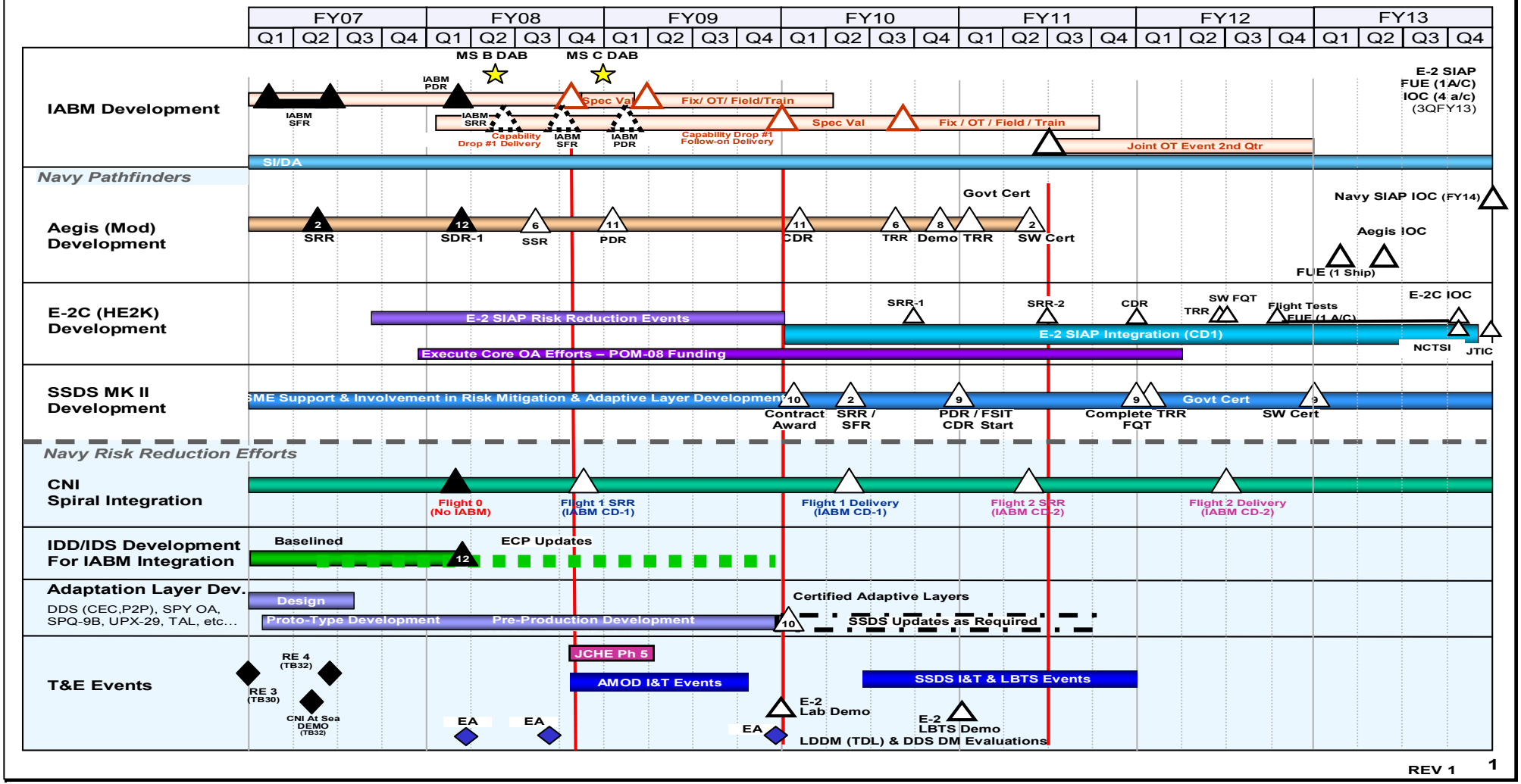
CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**

(U) FY2009 PLAN: Continue translation of the IABM Platform Independent Model (PIM) at the component level and develop Platform Specific Model (PSM) and Platform Specific Implementation (PSI) in conjunction with Aegis Modernization (AMOD) Commercial Off-The-Shelf (COTS) Refresh Three (CR3) development and testing to support fielding in FY13. Continue with the required partitioning of the AMOD computer program and application modification for IABM integration. Prepare for any architecture related changes required to accommodate future integration of IABM CD-1 follow-on.

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**		PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**					PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost ($000)	FY 2007 Cost ($000)	FY 2007 Award Date	FY 2008 Cost ($000)	FY 2008 Award Date	FY 2009 Cost ($000)	FY 2009 Award Date	Cost to Complete ($000)	Total Cost ($000)	Target Value of Contract
	VAR	NAVSEA, Washington DC	1.501	0.000		0.000		0.000	TBD	CONT	CONT	0.000
	VAR	PEOIWS, Washington DC	1.556	0.100		1.076	NOV-07	0.550	TBD	CONT	CONT	0.000
	VAR/WR	PEO(T), Pax River, MD	1.398	0.200		0.491	NOV-07	0.242	TBD	CONT	CONT	0.000
	VAR	PEO(C4I), San Diego, CA	0.607	0.100		0.214	NOV-07	0.105	TBD	CONT	CONT	0.000
Subtotal Engineering Requirements			**5.062**	**0.400**		**1.781**		**0.897**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	NAVSEA, Washington DC	0.402	0.000		0.000		0.000	TBD	CONT	CONT	0.000
	VAR	PEO IWS, Washington DC	1.609	0.601		0.575	NOV-07	0.563	TBD	CONT	CONT	0.000
	VAR/WR	PEO(T), Pax River, MD	0.607	0.305		0.173	NOV-07	0.170	TBD	CONT	CONT	0.000
	VAR	PEO(C4I), San Diego, CA	0.849	0.200		0.243	NOV-07	0.238	TBD	CONT	CONT	0.000
Subtotal Architecture Alignment			**3.467**	**1.106**		**0.991**		**0.971**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	NAVSEA, Washington DC	6.243	0.000		0.000		0.000	TBD	CONT	CONT	0.000
	VAR	PEO IWS	2.472	18.048		11.903	NOV-07	8.488	TBD	CONT	CONT	0.000
	VAR/WR	PEO(T), Pax River, MD	2.096	1.530		2.832	NOV-07	1.940	TBD	CONT	CONT	0.000
	VAR	POE(C4I), San Diego, CA	0.524	0.751		0.709	NOV-07	0.485	TBD	CONT	CONT	0.000
Subtotal System Development			**11.335**	**20.329**		**15.444**		**10.913**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	NAVSEA, Washington DC	2.070	0.000		0.000		0.000	TBD	CONT	CONT	0.000
	VAR	PEO IWS, Washington DC	2.614	3.145		5.579	NOV-07	4.972	TBD	CONT	CONT	0.000
	VAR/WR	PEO(T), Pax River, MD	1.938	2.746		2.309	NOV-07	2.068	TBD	CONT	CONT	0.000
	WR	PEO(C4I), San Diego, CA	1.115	0.446		1.328	NOV-07	1.189	TBD	CONT	CONT	0.000
Subtotal Test & Execution			**7.737**	**6.337**		**9.216**		**8.229**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	NAVSEA, Washington, DC	1.095	0.000		0.000		0.000	TBD	CONT	CONT	0.000

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**		PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**					PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost ($000)	FY 2007 Cost ($000)	FY 2007 Award Date	FY 2008 Cost ($000)	FY 2008 Award Date	FY 2009 Cost ($000)	FY 2009 Award Date	Cost to Complete ($000)	Total Cost ($000)	Target Value of Contract
	VAR	PEO IWS, Washington, DC	0.704	0.200		1.244	NOV-07	0.914	TBD	CONT	CONT	0.000
	VAR/WR	PEO(T), Pax River, MD	0.814	0.250		0.563	NOV-07	0.413	TBD	CONT	CONT	0.000
	WR	PEO(C4I), San Diego CA	0.826	0.050		0.572	NOV-07	0.419	TBD	CONT	CONT	0.000
Subtotal Integration Planning			**3.439**	**0.600**		**2.379**		**1.746**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	Lockheed Martin	3.534	10.000	NOV-06	15.645	NOV-07	19.051	TBD	CONT	CONT	0.000
Subtotal DDG MOD PSM			**3.534**	**10.000**		**15.645**		**19.051**		**CONT**	**CONT**	**0.000**
Remarks:												
	VAR	Various industry, SBIR Phase III	0.000	0.000		0.000		0.000		CONT	CONT	0.000
Subtotal Open Architecture Automated Test & Retest			**0.000**	**0.000**		**0.000**		**0.000**		**CONT**	**CONT**	**0.000**
Remarks:												
Total Cost			**34.574**	**38.772**		**45.456**		**41.807**		**CONT**	**CONT**	**0.000**

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-4, SCHEDULE PROFILE		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**



CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**			PROJECT NUMBER AND NAME **3031/Single Integrated Air Picture Sys Eng**			
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
IABM PDR		Q1					
Milestone B DAB		Q2					
Capability Drop 1 Delivered		Q4					
IABM SFR	Q1						
Milestone C DAB			Q1				
Capability Drop 1 Follow-on Delivered			Q4				
Joint Operational Testing Begins					Q3		
AMOD PDR			Q1				
AMOD CDR				Q1			
AMOD Demo				Q4			
AMOD SW Certification					Q2		
Final AMOD Certification							Q2
E-2 CDR					Q4		
E-2 IOC							Q4
SSDS CDR				Q4			
SSDS SW Certification						Q4	
CNI Flight 1 Delivered				Q2			
CNI Flight 2 Delivered						Q2	
Adaptation Layer Certification				Q1			
CNI At-Sea Demo	Q2						
E-2 Lab Demo			Q4				
E-2 Flight Demo					Q1		

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603879N/SINGLE INT. AIR PICTURE (SIAP) SYS ENG**	PROJECT NUMBER AND NAME **9999/CONGRESSIONAL ADDS**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
Open Architecture Automated Test and Retest	1.602	0.000	0.000
RDT&E Articles Quantity	0	0	0

(U) FY2007 PLAN: Initiated Development of Open Architecture Automated Test and Retest test equipment and prototype. Specific tasks included development of program of record Test Harness, IABM Test Harness, and prototype demonstration.

(U) FY2008 PLAN: N/A

(U) FY2009 PLAN: N/A