

UNCLASSIFIED

PE NUMBER: 0207451F

PE TITLE: Single Integrated Air Picture (SIAP)

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207451F Single Integrated Air Picture (SIAP)
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	37.874	4.857	66.909	65.648	34.336	27.491	23.224	0.000	0.000
5232 Air Force Single Integrated Air Picture	37.874	4.857	3.067	3.076	3.068	5.056	5.048	0.000	0.000
5275 Joint SIAP Engineering and Development	0.000	0.000	63.842	62.572	31.268	22.435	18.176	0.000	0.000

In FY07 all Single Integrated Air Picture (SIAP) funds from PE 0207443F Project 5187 and PE 0207434F Project 5050 were transferred to consolidate Air Force SIAP funds. In FY09 the joint SIAP engineering and development funding will transfer from the Army PE 0603327A to the Air Force. This transfer is the result of the Air Force being designated as Acquisition Executive for the Joint SIAP program.

(U) A. Mission Description and Budget Item Justification

The Single Integrated Air Picture (SIAP) is the product of fused data from multiple sensors - a "System of Systems" (SoS) that provides unambiguous, actionable tracks of all airborne objects in a surveillance volume. All airborne objects of interest must be detected, tracked, and reported. Every object must have one and only one track and set of identified characteristics. Weapon systems from each service must see and act on the same track data consistently. SIAP systems integration efforts include, but are not limited to: defining the SIAP Platform Independent Model (PIM) functionality, the required SIAP architecture, and the integration of critical methodologies/capabilities for the services airborne network to include AF command and control weapons systems.

SIAP consists of the development and implementation of a software Model Driven Architecture (MDA) known as the Integrated Architecture Behavioral Model (IABM). The MDA approach will provide enhanced interoperability by implementing Joint Battle Management Command and Control (JBMC2) functionality in weapon systems, thus enabling more accurate situational awareness and reduced fratricide.

The Air Force is applying expertise in various AF program offices to assist with defining the SIAP Platform Independent Model (PIM) and the SIAP Platform Specific Model (PSM) functionality, the required SIAP architecture, and the integration methodology for AF weapon systems and the airborne network. Project 5232 funds AF-specific, SIAP-related engineering efforts including Air Force staff that works directly with the Joint SIAP Program Office to help define and develop the functional content of the SIAP PIM. Beginning in FY08 funding in project 5232 will be used to support the Joint SIAP Program Office to reduce risk until the Air Force AWACS and BCS-F programs are ready to integrate the PSM functionality.

Project 5275 funds the joint system engineering to enable the System of Systems and coordinate the activities of the participating services. This effort will develop and deliver the Integrated Architecture Behavior Model (IABM) that dictates a common architectural standard.

These activities are in Budget Activity 5 (System Development and Demonstration) because they support development, integration solutions, fielding, operational support activities, and special projects.

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207451F Single Integrated Air Picture (SIAP)

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	40.124	4.976	5.067
(U) Current PBR/President's Budget	37.874	4.857	66.909
(U) Total Adjustments	-2.250	-0.119	
(U) Congressional Program Reductions		-0.088	
Congressional Rescissions	-0.151	-0.031	
Congressional Increases			
Reprogrammings	-0.976		
SBIR/STTR Transfer	-1.123		

(U) **Significant Program Changes:**

In FY07 all Single Integrated Air Picture (SIAP) funds from PE 0207443F Project 5187 and PE 0207434F Project 5050 were transferred to consolidate Air Force SIAP funds. The FY08 funding supports the work necessary to support the development and test of the joint product. In FY08, funding was adjusted to support higher Air Force requirements. The joint SIAP engineering and development funding will transfer from the Army PE 0603327A to the Air Force in FY09 resulting in the increase in PE total.

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0207451F Single Integrated Air Picture (SIAP)			PROJECT NUMBER AND TITLE 5232 Air Force Single Integrated Air Picture		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5232 Air Force Single Integrated Air Picture	37.874	4.857	3.067	3.076	3.068	5.056	5.048	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY07 II Single Integrated Air Picture (funds) from PE 0207443F Project 5187 and PE 0207434F Project 5050 were transferred to consolidate Air Force SIAP funds.

(U) A. Mission Description and Budget Item Justification

The Single Integrated Air Picture (SIAP) is the product of fused data from multiple sensors - a "System of Systems" (SoS) that provides unambiguous, actionable tracks of all airborne objects in a surveillance volume. All airborne objects of interest must be detected, tracked, and reported. Every object must have one and only one track and set of identified characteristics. Weapon systems from each service must see and act on the same track data consistently. SIAP systems integration efforts include, but are not limited to: defining the SIAP Platform Independent Model (PIM) functionality, the required SIAP architecture, and the integration of critical methodologies/capabilities for the services airborne network to include AF command and control weapons systems.

SIAP consists of the development and implementation of a software Model Driven Architecture (MDA) known as the Integrated Architecture Behavioral Model (IABM). The MDA approach will provide enhanced interoperability by implementing Joint Battle Management Command and Control (JBMC2) functionality in weapon systems, thus enabling more accurate situational awareness and reduced fratricide.

The Air Force is applying expertise in various AF program offices to assist with defining the SIAP Platform Independent Model (PIM) and the SIAP Platform Specific Model (PSM) functionality, the required SIAP architecture, and the integration methodology for AF weapon systems and the airborne network. Project 5232 funds AF-specific, SIAP-related engineering efforts including Air Force staff that works directly with the Joint SIAP Program Office to help define and develop the functional content of the SIAP PIM. Beginning in FY08 funding in project 5232 will be used to support the Joint SIAP Program Office to reduce risk until the Air Force AWACS and BCS-F programs are ready to integrate the PSM functionality.

These activities are in Budget Activity 5 (System Development and Demonstration) because they support development, integration solutions, fielding, operational support activities, and special projects.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) MDA PSM Development (AWACS 40/45)	6.000		
(U) MDA Integration and Implementation (BCS-F)	13.078		
(U) MDA Demonstration	4.000		
(U) Integration Resource Center (IABM Dev & Risk Reduction/MDA Tools Development)	4.101	1.402	1.500
(U) MDA Verification and Validation (IABM Development Risk Reduction)	4.012		
(U) Engineering Support	6.683	3.455	1.567
(U) Total Cost	37.874	4.857	3.067

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PROJECT NUMBER AND TITLE

5232 Air Force Single Integrated Air Picture

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) RDT&E 27434F	0.000	0.000	0.000	0.000	0.000			Continuing	TBD

(U) **D. Acquisition Strategy**

The Air Force SIAP program office (SPO) provides for common development and integration across multiple Air Force platforms and airborne networks via existing contract mechanisms.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)				0207451F Single Integrated Air Picture (SIAP)				5232 Air Force Single Integrated Air Picture				
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Integration Resource Center (IABM Dev & Risk Reduction/MDA Tools Development)	CPFF	BAE Systems Inc, Arlington VA		4.101	Dec-06	1.402	Nov-07	1.500	Nov-08	Continuing	TBD	TBD
MDA PSM Development (AWACS 40/45)	CPIF	Boeing Co., Seattle WA		6.000	Dec-06					Continuing	TBD	TBD
MDA Integration and Implementation (BCS-F)	CPIF	Thales-Raytheon Systems, Fullerton CA		13.078	Dec-06					Continuing	TBD	TBD
Subtotal Product Development			0.000	23.179		1.402		1.500		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
ESC Engineering Support	CP/FFFP	Titan Corp, Odyssey Consulting Group, BTAS Inc, MITRE		6.683	Oct-06	3.455	Oct-07	1.567	Oct-08	Continuing	TBD	TBD
Subtotal Support			0.000	6.683		3.455		1.567		Continuing	TBD	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
MDA Demonstration	TBD	TBD		4.000	Jan-07					Continuing	TBD	TBD
MDA Verification and Validation (IABM Development and Risk Reduction)	TBD	TBD		4.012	Jan-07					Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	8.012		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	37.874		4.857		3.067		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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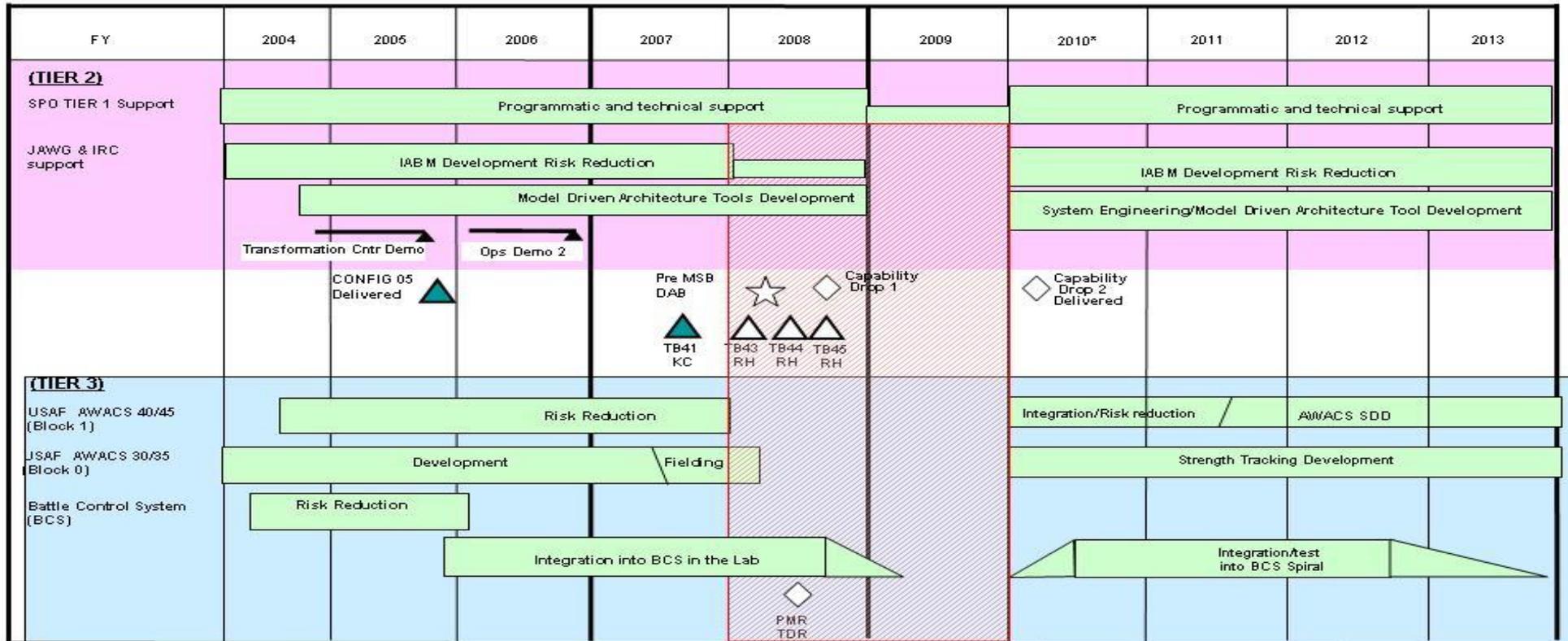
BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0207451F Single Integrated Air Picture (SIAP)

PROJECT NUMBER AND TITLE
5232 Air Force Single Integrated Air Picture



AF SIAP Schedule



*Note – Tier 3 funding is in platforms

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Exhibit R-4a, RDT&E Schedule Detail

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

**0207451F Single Integrated Air
Picture (SIAP)**

PROJECT NUMBER AND TITLE

**5232 Air Force Single Integrated Air
Picture**

(U) Schedule Profile

FY 2007

FY 2008

FY 2009

(U) MDA Tools Development (Software Integration Tools)

1-4Q

1-4Q

(U) Demonstration

3Q

(U) AWACS Risk Reduction

1-4Q

(U) BCS IABM Integration

1-4Q

1-4Q

1Q

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0207451F Single Integrated Air Picture (SIAP)			PROJECT NUMBER AND TITLE 5275 Joint SIAP Engineering and Development		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5275 Joint SIAP Engineering and Development	0.000	0.000	63.842	62.572	31.268	22.435	18.176	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY 2009, Project 5275, Joint SIAP System Engineering and Development efforts were transferred from Army PE 0603327A - Air and Missile Defense Systems Engineering, Project S32, Joint SIAP System Engineering, into Air Force PE 0207451F in accordance with DoD designation of the Air Force as the SIAP Acquisition Executive. These funds support the research, development and testing of the Integrated Architecture Behavior Model (IABM), conduct Joint System-of-Systems Engineering for air and cruise missile defense, and operation of the SIAP Joint Program Office (SIAP JPO) and SIAP Joint Program Executive Office (SIAP JPEO).

(U) A. Mission Description and Budget Item Justification

The Single Integrated Air Picture (SIAP) is the product of fused data from multiple sensors - a "System of Systems" (SoS) that provides unambiguous, actionable tracks of all airborne objects in a surveillance volume. All airborne objects of interest must be detected, tracked, and reported. Every object must have one and only one track and set of identified characteristics. Weapon systems from each service must see and act on the same track data consistently. Current systems do not provide this capability.

The Single Integrated Air Picture program is a Joint Requirements Oversight Council (JROC) validated and OSD-directed collaborative enterprise comprising multiple engineering and acquisition programs in each of the Services, all linked by a joint engineering and development organization - the SIAP Joint Program Office (JPO). The SIAP JPO provides the joint SIAP system engineering to enable the System of Systems and coordinate the activities of the participating Services. The major product from the SIAP JPO is a computerized specification, the Integrated Architecture Behavior Model (IABM) that dictates a common architectural standard for systems that make up the Joint SIAP System of Systems. As a result, weapon systems incorporating the IABM will be interoperable, better able to understand the battlespace and able to employ weapons to the full extent of their design capabilities.

Delivery of the IABM supports the first Capability Drop (CD-1) which is the set of core requirements outlined in the Capability Development Document (CDD) generated by US Joint Forces Command and as validated by the Joint Requirements Oversight Council (JROC) in Sep 2007. CD-1 provides the technology and capability for the SIAP System of Systems to generate the SIAP. That capability includes improved efficiency in processing track data, network latency reduction, improved beyond line-of-sight ability, consistent track management and combat identification performance enhancements.

In FY 2009, SIAP JPO expands its System of System engineering, test and customer support role to meet JROC-validated requirements and USD (AT&L) direction. The program will have greater emphasis on IABM Implementation including operational and certification testing, legacy system integration and training. The focus will be on engineering and development that responds to service requirements for CD-1. A significant portion of funds and JPO effort will be for Customer Support and System of System testing to assist the Services in integrating the IABM into their combat, weapon, sensor, and tactical command and control systems. IABM development will continue to build upon the CD-1 baseline and will focus on incorporating advances in distributed sensor and resource management to further automate critical warfighting functions, including robust interface with ground systems. The Modeling and Simulation effort will continue support of System of System testing and assessment of candidates for the Rapid Capabilities Insertion Process (RCIP), an assessment process to make or buy already developed applications to augment SIAP capability for the System of Systems; then to adapt and integrate the application into the IABM.

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207451F Single Integrated Air Picture (SIAP)	PROJECT NUMBER AND TITLE 5275 Joint SIAP Engineering and Development
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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) IABM Production - Architecture, Specification and Behavior Model			11.598
(U) Rapid Capability Insertion Process (RCIP)			8.500
(U) System Engineering			7.850
(U) IABM Product Support			3.158
(U) SoS Customer Support (Technical Analysis and IABM Implementation)			4.320
(U) IABM Test and Evaluation - Developmental			4.180
(U) SIAP System of Systems Test and Evaluation - Operational			10.179
(U) Program Management Support			11.460
(U) Acquisition Infrastructure (RDT&E facilities and equipment)			2.597
(U) Total Cost	0.000	0.000	63.842

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) PE 0603327A, Project S34, AMD System of Systems Engineering and Integration			1.296	4.536	5.076	5.238			

(U) **D. Acquisition Strategy**
 The 3 May 2006 USD (AT&L) Acquisition Decision Memorandum (ADM) directs a SIAP acquisition approach based upon development of an Open System integrated architecture with selection and integration of "Best of Breed" functions to achieve a SIAP capability. The acquisition planned represents a "Best of Breed" approach allowing assessment of alternatives at the functional computer program component level. This acquisition strategy is intended to achieve the overall Department Theater Air and Missile Defense (TAMD) modernization planning described by the Integrated Air and Missile Defense (IAMD) and Joint Battle Management Command and Control (JBMC2) Roadmaps.
 The SIAP SoS capability will be developed through a SoS engineering approach that uses a Model Driven Architecture® (MDA®) computerized specification, the Integrated Architecture Behavior Model (IABM), to provide the common architectural standard for systems that make up the Joint SIAP System of Systems. The SIAP Joint Program Office (JPO), using a team of industry, government, Federally Funded Research and Development Centers (FFRDCs), and government laboratory personnel, will develop the IABM. Each service, through its respective program offices, develops platform-specific models of the IABM that are used to develop SIAP solutions for incorporation into specific sensor, weapon, combat, and tactical BMC2 systems.

Follow-on IABM development will continue to build upon the Capability Drop-1 baseline and will focus on incorporating advances in distributed sensor and resource management to further automate critical warfighting functions. The SIAP JPO will implement its Rapid Capability Insertion Process (RCIP) to enhance SIAP capability for the System of Systems with RCIP plans oriented toward acquiring capability to provide actionable data for engagement, including Global Information

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**0207451F Single Integrated Air
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PROJECT NUMBER AND TITLE

**5275 Joint SIAP Engineering and
Development**

Grid (GIG) connectivity, active and passive combat identification, enhanced track processing and Integrated Fire Control.

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207451F Single Integrated Air Picture (SIAP)	PROJECT NUMBER AND TITLE 5275 Joint SIAP Engineering and Development
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
System of Systems Engineering	C/CPFF	JHU/APL, Laurel, MD						4.238	Oct-08	Continuing	TBD	TBD
System of Systems Engineering	C/CPFF	SAIC, McLean, VA						2.127	Oct-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	C/CPFF	BAH, McLean, VA						2.971	Nov-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	C/CPFF	CSC, Lanham, MD						1.926	Oct-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	C/CPFF	Sparta, Laguna Hills, CA						2.149	Oct-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	C/CPFF	Raytheon, Laguna Beach, CA						1.099	Oct-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	C/CPFF	BAE, Huntsville, AL						2.778	Nov-08	Continuing	TBD	TBD
Architecture, Specification and Behavior Model	Various	Various						10.977		Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		28.265		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
Product Support	Various	Various						3.158		Continuing	TBD	TBD
Customer Support	Various	Various						4.320		Continuing	TBD	TBD
Subtotal Support			0.000	0.000		0.000		7.478		Continuing	TBD	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
IABM and SoS T&E	C/CPFF	SPA, Alexandria VA						1.734	Oct-08	Continuing	TBD	TBD
SoS T&E	MIPR	JITC, Ft Huachuca AZ						2.200	Oct-08	Continuing	TBD	TBD
IABM T&E	SS/FFP	RhinoCorps (8a), Albuquerque, NM						1.077	Dec-08	Continuing	TBD	TBD
SoS T&E	C/CPFF	JHU/APL, Laurel, MD						2.500	Oct-08	Continuing	TBD	TBD
IABM and SoS T&E	Various	Various						6.848		Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		14.359		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												

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05 System Development and Demonstration (SDD)			0207451F Single Integrated Air Picture (SIAP)			5275 Joint SIAP Engineering and Development				
Program Management Support	C/CPFF	Westar, Huntsville, AL				1.437	Oct-08	Continuing	TBD	TBD
Management Services: Facility & Govt Staff	Various	Various				12.861		Continuing	TBD	TBD
Subtotal Management			0.000	0.000	0.000	14.298		Continuing	TBD	TBD
Remarks:										
(U) Total Cost			0.000	0.000	0.000	64.400		Continuing	TBD	TBD

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2008
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <u>Schedule Profile</u>			
(U) Army AE Budget for SIAP JPO	1-4Q	1-4Q	
(U) Air Force AE Budget for SIAP JPO			1-4Q
(U) In Process Review Defense Acquisition Board		1Q	
(U) Defense Acquisition Executive Review		3Q	
(U) IABM Capability Drop 1 (CD-1) Development	1-4Q	1-4Q	1-3Q
(U) IABM CD-1 Delivery			3Q
(U) Rapid Capability Insertion Process (RCIP)			1-4Q
(U) IABM CD-1 Follow-on Development			1-4Q
(U) SIAP SOS Testing	3-4Q	1-4Q	1-4Q
(U) Joint Combined Hardware-in-the-loop Evaluation 5 CD-1 Testing			4Q
(U) Joint Interoperability Test Command CD-1 Testing			4Q
(U) Service CD-1 Implementation/Integration			4Q