

UNCLASSIFIED

PE NUMBER: 0604425F

PE TITLE: Space Situation Awareness Systems

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	0.000	121.696	187.804	160.458	313.338	379.907	351.677	264.286	Continuing	TBD
A006 Space Based Space Surveillance	0.000	110.141	157.457	122.715	196.118	240.695	245.804	159.103	Continuing	TBD
A008 Integrated Space Situation Awareness (ISSA)	0.000	11.555	26.212	22.998	50.614	43.517	24.697	22.416	Continuing	TBD
A009 Space Fence	0.000	0.000	4.135	14.745	66.606	95.695	81.176	82.767	Continuing	TBD

In FY 2007 these projects transferred from PE 0305910F, Spacetrack, to reflect evolution of space surveillance to the Space Situation Awareness construct.

(U) A. Mission Description and Budget Item Justification

Space Situation Awareness (SSA) is knowledge of all aspects of space related to operations. The foundation for space control, it encompasses intelligence on adversary space operations; surveillance of all space objects and activities; detailed reconnaissance of specific space assets; monitoring space environmental conditions; monitoring cooperative space assets; and conducting integrated command, control, communications, processing, analysis, dissemination, and archiving activities. This program element develops new Air Force sensors for the SSA network and improved information capabilities for integration across it; companion program element 0305940F, Space Situation Awareness Operations, fields, upgrades, operates, and sustains sensors and information integration capabilities within that network. Development activities are necessary to deploy new, advanced sensors capable of finding, fixing, tracking, and reconnoitering the expanding number of debris objects on orbit as well as the increasing number of satellites launched by other nations, many of them smaller and more capable than previous spacecraft. They are also required to better integrate the disparate elements of SSA in order to enable rapid, responsive space operations.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	0.000	121.157	216.972	285.475
(U) Current PBR/President's Budget	0.000	121.696	187.804	160.458
(U) Total Adjustments	0.000	-0.461		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.461		
Congressional Increases			1.000	
Reprogrammings				
SBIR/STTR Transfer				

(U) Significant Program Changes:

FY 2007: +\$1.0M congressional add for Joint Space Intelligent Decision Support

FY 2008 - FY 2009: Adjustments to rephase/delay Space-Based Space Surveillance Block 20 and Space Fence programs, and to increase Integrated Space Situation Awareness funding to conduct SSA Foundational Enterprise activities

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems				PROJECT NUMBER AND TITLE A006 Space Based Space Surveillance		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
A006 Space Based Space Surveillance	0.000	110.141	157.457	122.715	196.118	240.695	245.804	159.103	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

In FY 2007 this effort transferred from Project 674930, Space-Based Space Surveillance, in PE 0305910F, Spacetrack, to reflect the evolution of space surveillance to the Space Situation Awareness construct. The full FY 2006 - FY 2013 schedule for it is included here for clarity, but refer to the RDT&E Budget Item Justification for that PE for further information on funding and activities prior to FY 2007.

(U) A. Mission Description and Budget Item Justification

Building upon the success of the Space-Based Visible technology demonstration, which proved the utility of surveilling orbiting objects from space, the Space-Based Space Surveillance (SBSS) project will develop a constellation of optical sensing satellites to search, detect, and track objects in Earth orbit. It will accomplish this via collecting and processing space object identification and satellite metric data, then communicating it to command and control nodes. Migrating surveillance to space augments existing ground sensors with timely 24-hour, all-weather object search capabilities. In conjunction with information from other Space Situation Awareness network sensors, SBSS data will enable more timely detection and tracking of space objects, particularly those in geosynchronous orbits.

This effort is in Budget Activity 5, System Development and Demonstration, because it is developing a new spacecraft system.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Block 10 design, development, and risk reduction	0.000	89.938	124.415	60.146
(U) Block 10 launch vehicle integration	0.000	9.176	9.991	5.275
(U) Block 20 concept, design, development, and risk reduction	0.000	0.000	4.950	36.700
(U) Program operations and Systems Engineering & Integration	0.000	11.027	18.101	20.594
(U) Total Cost	0.000	110.141	157.457	122.715

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

	<u>FY 2006</u> <u>Actual</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) RDT&E, Air Force (PE 0305190F, Spacetrack)	107.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	252.038
(U) Missile Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	0.000	0.000	0.000	0.000	31.824	95.783	Continuing	TBD

Exhibit R-2a, RDT&E Project Justification		DATE February 2007
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems	PROJECT NUMBER AND TITLE A006 Space Based Space Surveillance

(U) D. Acquisition Strategy

This system is being acquired via a block approach. Block 10 will develop and field a pathfinder satellite-based capability to replace the aging Space-Based Visible sensor on the orbiting Midcourse Space Experiment research & development spacecraft with a capability significantly improving the timeliness of data on objects in geosynchronous orbit. Block 20 will develop additional satellites to provide simultaneous, worldwide space surveillance in order to observe smaller objects on shorter timelines. Lessons learned from the former block will guide development of the latter. Block 10 began as an option on the existing Mission Area Prime Integrating Contract for the space control mission area to expedite fielding but was transformed into its own contract when a competitive award was held for the Block 10 subcontract. The contracting approaches for additional capabilities will be determined in the future.

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2007		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems					PROJECT NUMBER AND TITLE A006 Space Based Space Surveillance				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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>														
Block 10 design and development	C/CPAF	Northrop Grumman, Redondo Beach, CA	0.000	0.000		89.938	Oct-06	124.415	Nov-07	60.146	Nov-08	Continuing	TBD	
Technical risk reduction, mission planning, and mission data processing	SS/CPFF	MIT Lincoln Laboratory, Lexington, MA	0.000	0.000		3.240	Jan-07	1.950	Jan-08	1.100	Jan-09	Continuing	TBD	
Launch vehicle integration	MIPR	Space and Missile Systems Center Det., Kirtland AFB, NM	0.000	0.000		9.176	Oct-06	9.991	Nov-07	5.275	Nov-08	0.000	24.442	
Block 20 concept, design, and development	TBD	TBD	0.000	0.000		0.000		4.950	Nov-07	36.700	Nov-08	Continuing	TBD	
Subtotal Product Development			0.000	0.000		102.354		141.306		103.221		Continuing	TBD	0.000
Remarks:														
(U) <u>Support</u>														
Program operations and Systems Engineering & Integration	Various	Space and Missile Systems Center, Los Angeles AFB, CA	0.000	0.000		7.787	Oct-06	16.151	Oct-07	19.494	Oct-08	Continuing	TBD	
Subtotal Support			0.000	0.000		7.787		16.151		19.494		Continuing	TBD	0.000
Remarks:														
(U) <u>Test & Evaluation</u>														
Not applicable													0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) <u>Management</u>														
Not applicable													0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			0.000	0.000		110.141		157.457		122.715		Continuing	TBD	0.000

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Project A006

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems	PROJECT NUMBER AND TITLE A006 Space Based Space Surveillance
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <u>Schedule Profile</u>				
(U) Block 10 System Critical Design Review		1Q		
(U) Block 10 Program Executive Officer Review		3Q		
(U) Block 10 spacecraft launch				3Q
(U) Block 20 Key Decision Point A			4Q	
(U) Block 20 System Requirements Review				3Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems				PROJECT NUMBER AND TITLE A008 Integrated Space Situation Awareness (ISSA)			
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
A008 Integrated Space Situation Awareness (ISSA)	0.000	11.555	26.212	22.998	50.614	43.517	24.697	22.416	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

In FY 2007 these efforts transferred from Project 675011, Space Situational Awareness Initiatives, in PE 0305910F, Spacetrack, to reflect the evolution of space surveillance to the Space Situation Awareness construct. The full FY 2006 - FY 2013 schedule for them is included here for clarity, but refer to the RDT&E Budget Item Justification for that PE for further information on funding and activities prior to FY 2007.

In FY 2008 this project was renamed from Space Situation Awareness Initiatives to its present name.

(U) A. Mission Description and Budget Item Justification

Integrated Space Situation Awareness (ISSA) efforts improve the integration of the disparate data components of Space Situation Awareness (SSA) in order to provide timely, actionable knowledge necessary for maintaining space superiority and exercising successful command and control of space forces. ISSA activities are primarily centered on replacing and improving Space Defense Operations Center space object orbit detection and tracking functions with a net-centric SSA Foundational Enterprise (SSAFE) enabling automated, real-time correlation, integration, and distribution of orbitology data obtained by the various sensors in the space surveillance network. Additional ISSA efforts develop applications and tools that fuse data from space intelligence, surveillance, reconnaissance, and environmental sources or create new methods for providing current and predictive knowledge of space events, threats, activities, and conditions as well as space system status, capabilities, constraints, and employment. Other efforts conduct architecture, modeling, roadmap, and study efforts to capture SSA needs; develop short- and mid-term enterprise architectures; and evaluate satisfaction of capabilities in order to guide planning, budget formulation, systems integration, operations, and requirements allocation toward improved fulfillment of SSA requirements. All ISSA efforts are focused on providing the actionable, integrated SSA necessary to enable rapid, responsive decisions on space activities by the Commander of U.S. Strategic Command's Joint Functional Component Command for Space and other space capability users ensuring the protection of U.S. space assets from proliferating adversary threats.

These efforts are in Budget Activity 5, System Development and Demonstration, because they develop and demonstrate capabilities for better integration of SSA data or develop architectures guiding associated technical and budgetary planning.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Intelligence, surveillance, reconnaissance, and environmental data integration and applications	0.000	4.005	3.203	2.958
(U) Fusion tool development, assessments, requirements development, and technical support	0.000	3.376	1.733	2.098
(U) Extended Space Sensors Architecture Advanced Concept Technology Demonstration (ESSA ACTD)	0.000	1.500	2.100	1.000
(U) SSA architecture development and modeling activities	0.000	1.674	1.207	0.720
(U) SSA Foundational Enterprise technology and system development	0.000	0.000	17.969	16.222
(U) Joint Space Intelligent Decision Support	0.000	1.000	0.000	0.000
(U) Total Cost	0.000	11.555	26.212	22.998

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems	PROJECT NUMBER AND TITLE A008 Integrated Space Situation Awareness (ISSA)
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(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2006</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 Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>								
(U) RDT&E, Air Force (PE 0305910F, Spacetrack)	14.469	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50.126
(U) Other Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	0.000	9.133	0.000	0.000	0.000	0.000	0.000	9.133

(U) **D. Acquisition Strategy**

Ongoing ISSA activities utilize existing engineering and study contracts awarded and maintained by space planning and development organizations throughout the Department of Defense in order to accomplish required development activities and to obtain infrastructure and technical support. Many activities develop, test, and deliver capabilities or provide products in successive spirals. Operational needs drive the prioritization and selection of particular applications, modeling tools, and architecture products for development. SSAFE activities will similarly employ block development approaches for deployment of new systems and tools to progressively advance operational capabilities toward the truly integrated SSA envisioned by existing SSA architectures and roadmaps.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems	PROJECT NUMBER AND TITLE A008 Integrated Space Situation Awareness (ISSA)
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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 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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>														
Data applications and integration ESSA ACTD	Various	MIT Lincoln Laboratory, Lexington, MA	0.000	0.000		4.005	Nov-06	3.203	Nov-07	2.958	Nov-08	Continuing	TBD	
SSA architecture development	Various	TBD	0.000	0.000		1.500	Nov-06	1.350	Nov-07	0.625	Nov-08	0.000	3.475	
SSA Foundational Enterprise	TBD	21st Century Systems, Omaha, NE	0.000	0.000		1.674	Nov-06	1.207	Nov-07	0.720	Nov-08	Continuing	TBD	
Joint Space Intelligent Decision Support	TBD		0.000	0.000		0.000	Jan-08	15.268	Jan-08	13.281	Nov-08	Continuing	TBD	
Subtotal Product Development			0.000	0.000		8.179		21.028		17.584		Continuing	TBD	0.000
Remarks:														
<u>(U) Support</u>														
Fusion tool development, requirements, and technical support	Various	Electronic Systems Center Det., Peterson AFB, CO	0.000	0.000		3.376	Oct-06	1.733	Oct-07	2.098	Oct-08	Continuing	TBD	
ESSA ACTD support	C/CPFF	ITSP, Colorado Springs, CO	0.000	0.000		0.000		0.750	Nov-07	0.375	Nov-08		1.125	
Systems engineering	SS/FP-LO E	MITRE, Colorado Springs, CO	0.000	0.000		0.000		1.363	Nov-07	1.313	Nov-08	Continuing	TBD	
Program operations	Various	Space and Missile Systems Center, Los Angeles AFB, CA; Electronic Systems Center Det., Peterson AFB, CO	0.000	0.000		0.000		1.338	Oct-07	1.628	Oct-08	Continuing	TBD	
Subtotal Support			0.000	0.000		3.376		5.184		5.414		Continuing	TBD	0.000
Remarks:														

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Project A008

Exhibit R-3 (PE 0604425F)

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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)	0604425F Space Situation Awareness Systems	A008 Integrated Space Situation Awareness (ISSA)							
(U) <u>Test & Evaluation</u>									
Not applicable								0.000	
Subtotal Test & Evaluation			0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:									
(U) <u>Management</u>									
Not applicable								0.000	
Subtotal Management			0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:									
(U) Total Cost			0.000	0.000	11.555	26.212	22.998	Continuing	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604425F Space Situation Awareness Systems

PROJECT NUMBER AND TITLE
A008 Integrated Space Situation Awareness (ISSA)

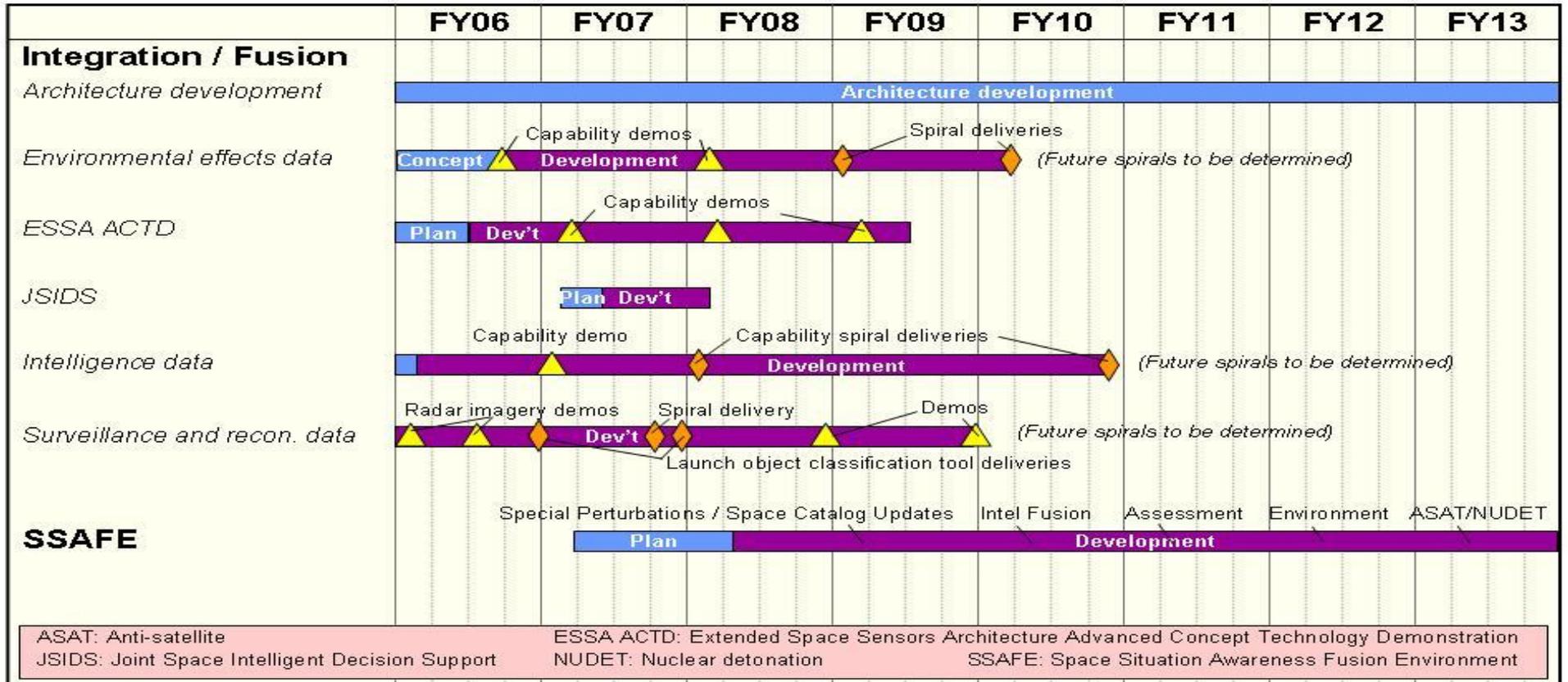


Exhibit R-4a, RDT&E Schedule Detail

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604425F Space Situation Awareness Systems

PROJECT NUMBER AND TITLE

A008 Integrated Space Situation Awareness (ISSA)

(U) Schedule Profile

(U) ESSA ACTD capability demonstrations

(U) Joint Space Intelligent Decision Support development

(U) Data integration and application tool deliveries

(U) SSAFE development commencement

FY 2006

FY 2007

FY 2008

FY 2009

1Q

1Q

1Q

2-4Q

1Q

1-4Q

1-4Q

1-4Q

2Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)							PE NUMBER AND TITLE 0604425F Space Situation Awareness Systems		PROJECT NUMBER AND TITLE A009 Space Fence	
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
A009 Space Fence	0.000	0.000	4.135	14.745	66.606	95.695	81.176	82.767	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

In FY 2007 this effort transferred from Project 67A015, Space Fence, in PE 035910F, Spacetrack, to reflect the evolution of space surveillance to the Space Situation Awareness construct. The full FY 2006 - FY 2013 schedule for the effort is included here for clarity, but refer to the RDT&E Budget Item Justification for that PE for further information on funding and activities prior to FY 2007.

(U) A. Mission Description and Budget Item Justification

The Space Fence effort will develop a system of ground-based sensors to replace the aging Air Force Space Surveillance System (AFSSS), a Very High Frequency radar operational since 1961. By using higher radio frequencies in conjunction with radar transmitters and receivers co-located at sites dispersed worldwide, the Space Fence will provide timely detection of smaller orbiting objects, primarily those in Low Earth Orbit. As a result, it will expand the detection and tracking capacity of the Space Situation Awareness network by an order of magnitude, from 10,000 to 100,000 objects, while working in concert with other network sensors.

This effort is in Budget Activity 5, System Development and Demonstration, because it is developing a new system of ground-based sensors.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Design and development	0.000	0.000	0.000	9.493
(U) Design review, management, and support	0.000	0.000	4.135	5.252
(U) Total Cost	0.000	0.000	4.135	14.745

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

	<u>FY 2006</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>Complete</u>							
(U) RDT&E, Air Force (PE 0305910F, Spacetrack)	6.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.103
(U) Other Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	0.000	0.000	0.000	0.000	62.522	63.890	Continuing	TBD

(U) D. Acquisition Strategy

The Air Force competitively awarded requirements definition contracts for the effort in FY 2006. A block approach acquisition strategy for the program will be developed in FY 2007 - FY 2008 with a development contract award to follow in FY 2009 after a full and open competition.

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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 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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>														
Design and development	C/TBD	TBD	0.000	0.000		0.000		0.000		9.493	Jan-09	Continuing	TBD	
Design evaluation	SS/FP-LO E	MIT Lincoln Laboratory, Lexington, MA	0.000	0.000		0.000		0.500	Oct-07	0.959	Oct-08	Continuing	TBD	
Design evaluation	SS/FP-LO E	MITRE Corp., Bedford, MA	0.000	0.000		0.000		0.500	Oct-07	0.998	Oct-08	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		1.000		11.450		Continuing	TBD	0.000
Remarks:														
<u>(U) Support</u>														
Design review and management	Various	Electronic Systems Center, Hanscom AFB, MA; others	0.000	0.000		0.000		3.135	Nov-07	3.295	Nov-08	Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		3.135		3.295		Continuing	TBD	0.000
Remarks:														
<u>(U) Test & Evaluation</u>														
Not applicable													0.000	0.000
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000			0.000	0.000
Remarks:														
<u>(U) Management</u>														
Not applicable													0.000	0.000
Subtotal Management			0.000	0.000		0.000		0.000		0.000			0.000	0.000
Remarks:														
<u>(U) Total Cost</u>			0.000	0.000		0.000		4.135		14.745		Continuing	TBD	0.000

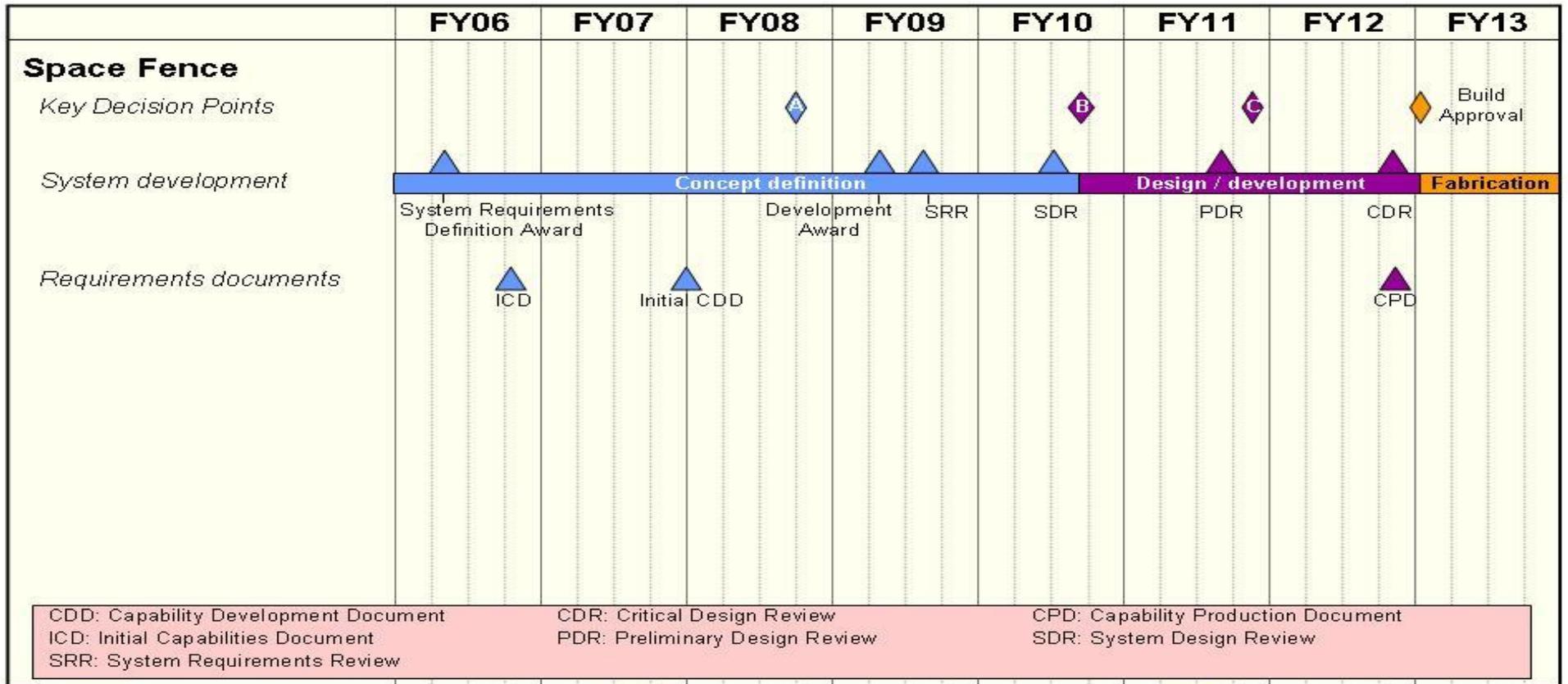
Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604425F Space Situation
Awareness Systems

PROJECT NUMBER AND TITLE
A009 Space Fence



- Concept activities
- Design / development
- Integration / test
- Production / fielding
- Operations / sustainment
- △◇ Key events

Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2007

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604425F Space Situation Awareness Systems

PROJECT NUMBER AND TITLE

A009 Space Fence

(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

(U) Key Decision Point A

3Q

(U) Development award

2Q

(U) System Requirements Review

3Q