

UNCLASSIFIED

PE NUMBER: 0604425F
 PE TITLE: Space Situation Awareness Systems

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 0604425F Space Situation Awareness Systems
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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	166.696	196.363	210.501	319.962	391.396	345.600	259.366	Continuing	TBD
A006 Space-Based Space Surveillance	155.440	156.468	120.747	192.612	236.392	241.251	155.723	Continuing	TBD
A008 Integrated Space Situation Awareness	11.256	26.047	44.481	61.742	60.708	24.341	22.088	Continuing	TBD
A009 Space Fence	0.000	13.848	45.273	65.608	94.296	80.008	81.555	Continuing	TBD

(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, SSA 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; also includes developmental planning and technology needs forecasting for future blocks and emerging needs. A 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. These activities are also required to better integrate the disparate elements of SSA in order to enable rapid, responsive space operations.

These efforts are in Budget Activity 5, System Development and Demonstration, because they develop new SSA capabilities.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	121.696	187.804	160.458
(U) Current PBR/President's Budget	166.696	196.363	210.501
(U) Total Adjustments	45.000		
(U) Congressional Program Reductions			
Congressional Rescissions		-1.241	
Congressional Increases		9.800	
Reprogrammings	45.299		
SBIR/STTR Transfer	-0.299		

(U) Significant Program Changes:

FY 07: \$45.299 reprogrammed into Space-Based Space Surveillance Block 10 development to maintain schedule toward an FY 2009 launch.

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 2007 Actual	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	155.440	156.468	120.747	192.612	236.392	241.251	155.723	Continuing	TBD	
Quantity of RDT&E Articles	0	0	1	0	0	0	0			

(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. Surveillance from 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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Block 10 design, development, and risk reduction	135.016	127.126	95.278
(U) Block 10 launch vehicle integration	9.176	18.200	5.893
(U) Block 20 concept, design, development, and risk reduction	0.000	0.000	7.586
(U) Program Office Support, Technical Studies & Analysis, Systems Engineering & Integration	11.248	11.142	11.990
(U) Total Cost	155.440	156.468	120.747

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

	<u>FY 2007</u> <u>Actual</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) Missile Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	0.000	0.000	0.000	31.396	94.336	Continuing	TBD

(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 was awarded competitively under an option on the existing Mission Area Prime Integrating Contract for the space control mission area. The specific contracting approach for additional capabilities is being determined.

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2008

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)				0604425F Space Situation Awareness Systems					A006 Space-Based Space Surveillance			
(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> Block 10 design and development	C/CPAF	Northrop Grumman, Redondo Beach, CA		131.946	Nov-06	125.417	Nov-07	93.765	Nov-08	Continuing	TBD	
Technical risk reduction	SS/CPFF	MIT Lincoln Laboratory, Lexington, MA		0.600	Jan-07	0.600	Jan-08	0.300	Jan-09	Continuing	TBD	
Mission planning and mission data processing				2.470	Jan-07	1.109	Jan-08	1.213	Jan-09	Continuing	TBD	
Launch vehicle integration	MIPR	Space and Missile Systems Center Det., Kirtland AFB, NM		9.176	Nov-06	18.200	Nov-07	5.893	Nov-08	0.000	33.269	
Block 20 concept, design, and development	TBD	TBD		0.000		0.000		7.586		Continuing	TBD	
Subtotal Product Development			0.000	144.192		145.326		108.757		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u> Program Office Support, Technical Studies & Analysis, Systems Engineering & Integration	Various	Space and Missile Systems Center, Los Angeles AFB, CA		11.248	Oct-06	11.142	Oct-07	11.990	Oct-08	Continuing	TBD	
Subtotal Support			0.000	11.248		11.142		11.990		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
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	155.440		156.468		120.747		Continuing	TBD	0.000

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Exhibit R-3 (PE 0604425F)

Exhibit R-4, RDT&E Schedule Profile

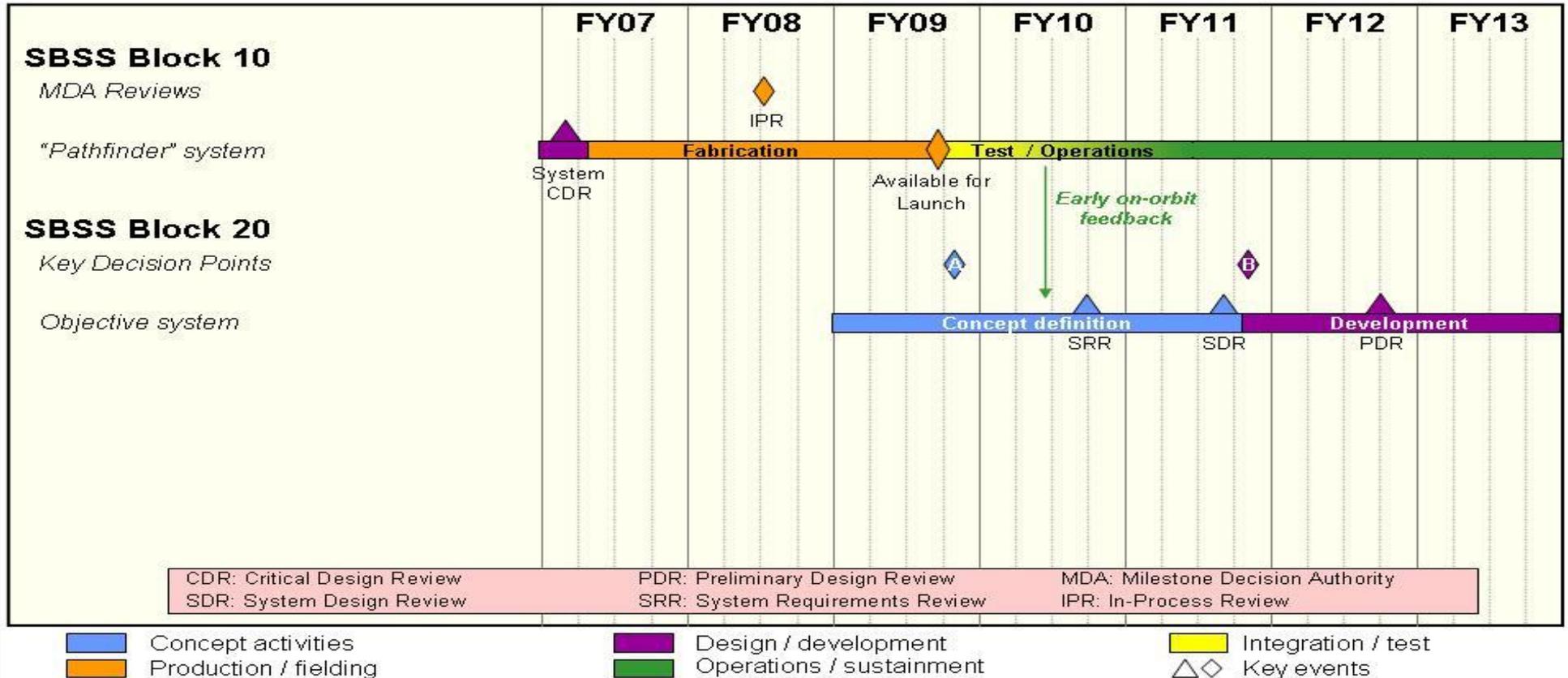
DATE

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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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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2008
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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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <u>Schedule Profile</u>			
(U) Block 10 Critical Design Review	1Q		
(U) Block 10 MDA Review		3Q	
(U) Block 10 Available for Launch			3Q
(U) Block 20 Key Decision Point A			4Q

Exhibit R-2a, RDT&E Project Justification

DATE

February 2008

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		
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
A008 Integrated Space Situation Awareness	11.256	26.047	44.481	61.742	60.708	24.341	22.088	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

This effort was formerly called Space Situation Awareness Initiatives.

(U) **A. Mission Description and Budget Item Justification**

Integrated Space Situation Awareness (ISSA) efforts provide the knowledge environment necessary to enable rapid, responsive decisions by the Commander, U.S. Strategic Command's Joint Functional Component Command for Space and other space capability users which ensures the protection of U.S. space assets from proliferating adversary threats. ISSA's focus is the integration of disparate data components of Space Situation Awareness (SSA) to create the timely, actionable knowledge necessary for maintaining space superiority and exercising command and control of space forces. The current priority is to migrate and upgrade the legacy space surveillance capabilities from the Space Defense Operations Center (SPADOC) into a net-centric based enterprise enabling automated, real-time correlation, integration, and distribution of data obtained across the traditional sensors in the space surveillance network. In addition to the space surveillance function which detects and tracks space objects, called Space Situation Awareness (SSA) Foundational Enterprise (SSAFE) in last year's submission, ISSA also develops applications and tools to improve the characterization of non-cooperative space objects by exploiting data from space intelligence, reconnaissance and environment communities. This characterization is fundamental to the understanding and predicting of the consequences of space events, threats, and activities. To do so also requires the timely insight into the system status, capabilities and constraints of U.S. military, commercial and allied space assets. To accomplish these efforts ISSA conducts architecture, modeling, and prototyping efforts to keep pace with a changing threat and leverage emerging technology. Specifically, the Extended Space Sensor Architecture Advanced Concept Technology Demonstration (ESSA ACTD) prototypes how disparate and legacy space sensor network data can be translated into a net-centric operating environment. Also, an ISSA system integrator has been added to integrate and deliver this and other applications and services developed to achieve SSA. In light of the recent anti-satellite events, the Department added funds, beginning in FY09, to accelerate the SPADOC net-centric migration and upgrade and integration of non-traditional sensors and enabled the role of the ISSA System Integrator.

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) ISSA System Integrator	0.000	1.500	8.500
(U) Surveillance and Reconnaissance	2.155	13.421	16.638
(U) Environment	0.600	2.326	3.600
(U) Intelligence	1.250	2.137	2.600
(U) Sensor Integration and Force Status	0.000	3.203	10.543
(U) Extended Space Sensors Architecture Advanced Concept Technology Demonstration (ESSA ACTD)	1.500	2.100	1.000
(U) Joint Space Intelligent Decision Support (JSIDS)	1.000	0.000	0.000
(U) SSA Architecture Development	1.674	0.000	0.000

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Project A008

Exhibit R-2a (PE 0604425F)

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
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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Fusion Tool Development, Requirements and Technical Support	3.077	0.233	0.000
(U) Program Office Support, Technical Studies & Analysis, Systems Engineering & Integration	0.000	1.127	1.600
(U) Total Cost	11.256	26.047	44.481

(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) Other Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	9.009	0.000	0.000	0.000	0.000	0.000	9.009

(U) D. Acquisition Strategy
 Ongoing ISSA activities utilize existing engineering and study contracts and a competitively selected system integrator. ISSA's focus is on employing a rapid prototyping approach to deploy new systems and tools to progressively advance operational capabilities toward the truly integrated SSA as envisioned by existing architectures and roadmaps. The ISSA System Integrator will provide high-level technical oversight support and assist the timely deployment of prototypes and services to the warfighter.

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				
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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>
Surveillance and Reconnaissance (includes effort formerly known as SSA Foundational Enterprise (SSAFE))	C/CPAF	Various: ISC2 contract, Lockheed Martin (prime); MITRE, Colorado Spgs, CO		2.155	Nov-06	13.421	Mar-08	16.638	Nov-08	Continuing	TBD	
Environment	Various	Keta Group, Colorado Springs, CO; Northrop Grumman, Omaha, NE		0.600	Nov-06	2.326	Nov-07	3.600	Nov-08	Continuing	TBD	
Intelligence	Various	Booz Allen Hamilton, Colorado Springs, CO		1.250	Nov-06	2.137	Nov-07	2.600	Oct-08	Continuing	TBD	
Sensor Integration and Force Status	Various	Northrop Grumman, Azusa, CA; Boeing, Seal Beach, CA; MIT Lincoln Laboratory, Lexington, MA		0.000		3.203	Nov-07	10.543	Nov-08	Continuing	TBD	
ESSA ACTD	SS/Cost reimbursement (no fee)	MIT Lincoln Laboratory, Lexington, MA		1.250	Nov-06	1.350	Nov-07	0.625	Oct-08	0.000	3.225	
SSA Architecture Development	Various	Various		1.674	Nov-06	0.000		0.000			1.674	
Joint Space Intelligent Decision Support	CPFF	21st Century Systems, Omaha, NE		1.000	Mar-07	0.000		0.000		0.000	1.000	
Subtotal Product Development			0.000	7.929		22.437		34.006		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
ISSA Integrator (formerly Fusion tool development, requirements, and technical support)	CPFF	TBD		0.000		1.500	Jan-08	8.500	Nov-08	Continuing	TBD	
Fusion Tool Development, Requirements and	Various	Electronic		3.077	Oct-06	0.233	Oct-06	0.000			3.310	

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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				
Technical Support		Systems Center Det., Peterson AFB, CO									
ESSA ACTD support	C/CPFF	ITSP, Colorado Springs, CO	0.250	Oct-06	0.750	Nov-07	0.375	Oct-08	Continuing	TBD	
Program Office Support, Technical Studies & Analysis, and Systems Engineering and Integration	Various	Space and Missile Systems Center, Los Angeles AFB, CA	0.000		1.127	Nov-07	1.600	Nov-08	Continuing	TBD	
Subtotal Support			0.000	3.327	3.610		10.475		Continuing	TBD	0.000
Remarks:											
(U) <u>Test & Evaluation</u>											0.000
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>											0.000
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	11.256	26.047		44.481		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

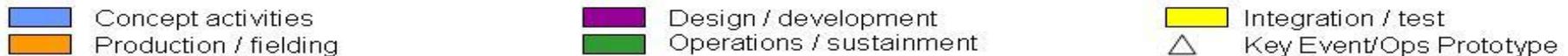
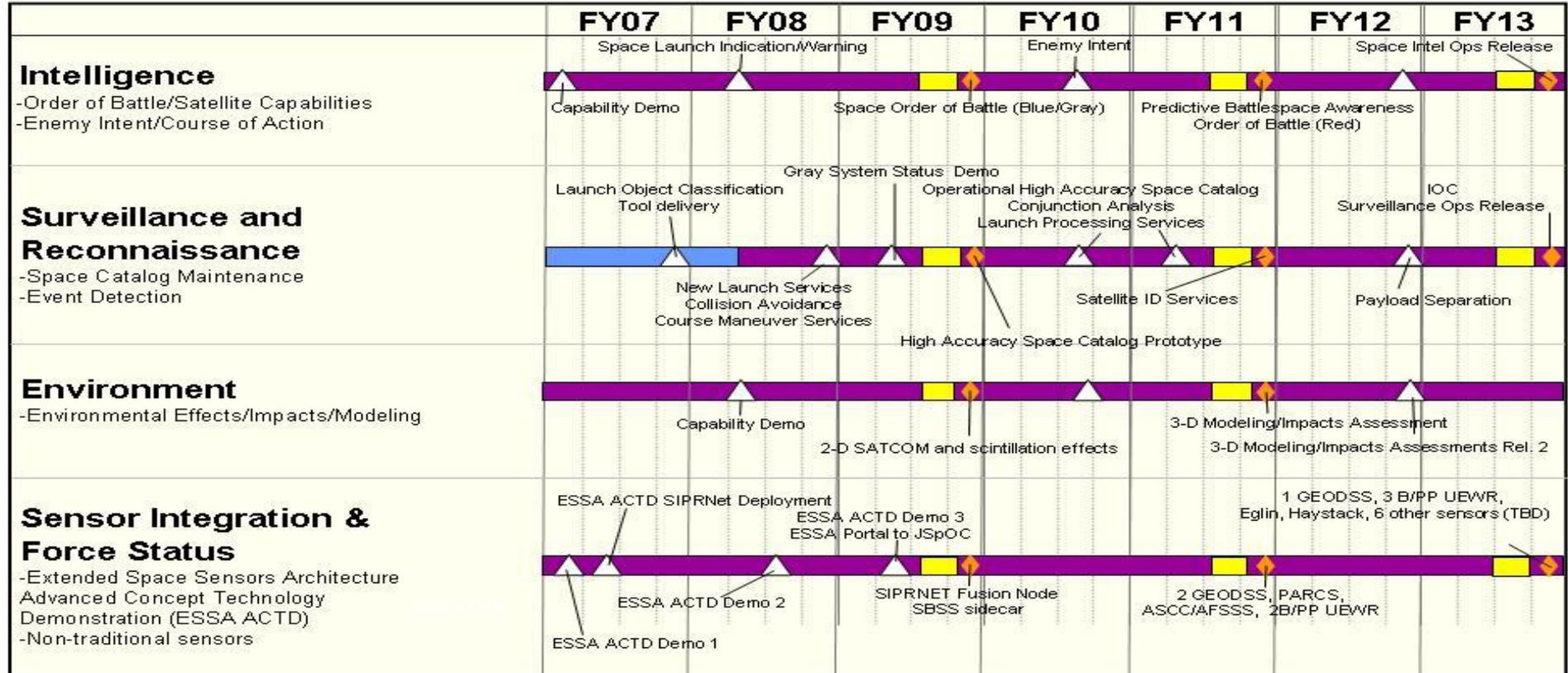
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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604425F Space Situation Awareness Systems

PROJECT NUMBER AND TITLE
A008 Integrated Space Situation Awareness



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2008
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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
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <u>Schedule Profile</u>			
(U) Launch Object Classification Tool	4Q		
(U) Surveillance Capability Demonstration		4Q	
(U) Surveillance Operational Delivery			4Q
(U) Commercial, Allied, & Foreign Interests Demonstration			2Q
(U) Environmental Effects Capability Demonstration		2Q	
(U) Environmental Effects Capability Delivery			4Q
(U) Intelligence Capability Demonstration	1Q	2Q	
(U) Intelligence Operational Delivery			4Q
(U) ESSA ACTD Demonstrations	1Q	3Q	2Q
(U) ESSA ACTD Classified Network Demonstration	2Q		
(U) Sensor Integration Operational Delivery			4Q

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 2007 Actual	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	13.848	45.273	65.608	94.296	80.008	81.555	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(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 (LEO). 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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Design and development	0.000	9.281	38.892
(U) Design review, management, and support	0.000	4.567	6.381
(U) Total Cost	0.000	13.848	45.273

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

	<u>FY 2007</u> <u>Actual</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) Other Procurement, Air Force (PE 0305940F, Space Situation Awareness Operations)	0.000	0.000	0.000	0.000	0.000	61.665	63.014	Continuing	TBD

(U) D. Acquisition Strategy

The Air Force competitively awarded requirements definition contracts for the effort in FY 2006. An acquisition strategy for the program is being developed with the aim of awarding development contracts in FY 2009 after a full and open competition.

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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
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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>												
Design and development	C/TBD	TBD		0.000		7.814	Jan-09	35.528	Jan-09	Continuing	TBD	
Design evaluation	SS/FP-LOE	MIT Lincoln Laboratory, Lexington, MA		0.000		0.877	Oct-07	1.916	Oct-08	Continuing	TBD	
Design evaluation	SS/FP-LOE	MITRE Corp., Bedford, MA		0.000		0.590	Oct-07	1.448	Oct-08	Continuing	TBD	
Subtotal Product Development			0.000	0.000		9.281		38.892		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Program Office Support	Various	Electronic Systems Center, Hanscom AFB, MA; others		0.000		2.572	Nov-07	3.561	Nov-08	Continuing	TBD	
Development review and management	C/FP LOE	Odyssey Systems, Wakefield, MA				0.851	Feb-08	0.751	Feb-09		1.602	
Development review and management	C/FP LOE	Jacobs Technology, Tullahoma, TN				0.644	Jan-08	2.069	Jan-09		2.713	
Development review and management	C/FP LOE	L3/Engility, Billerica, MA				0.500	Nov-07	0.000			0.500	
Subtotal Support			0.000	0.000		4.567		6.381		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
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)											0.000	
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		13.848		45.273		Continuing	TBD	0.000

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Project A009

Exhibit R-3 (PE 0604425F)

Exhibit R-4, RDT&E Schedule Profile

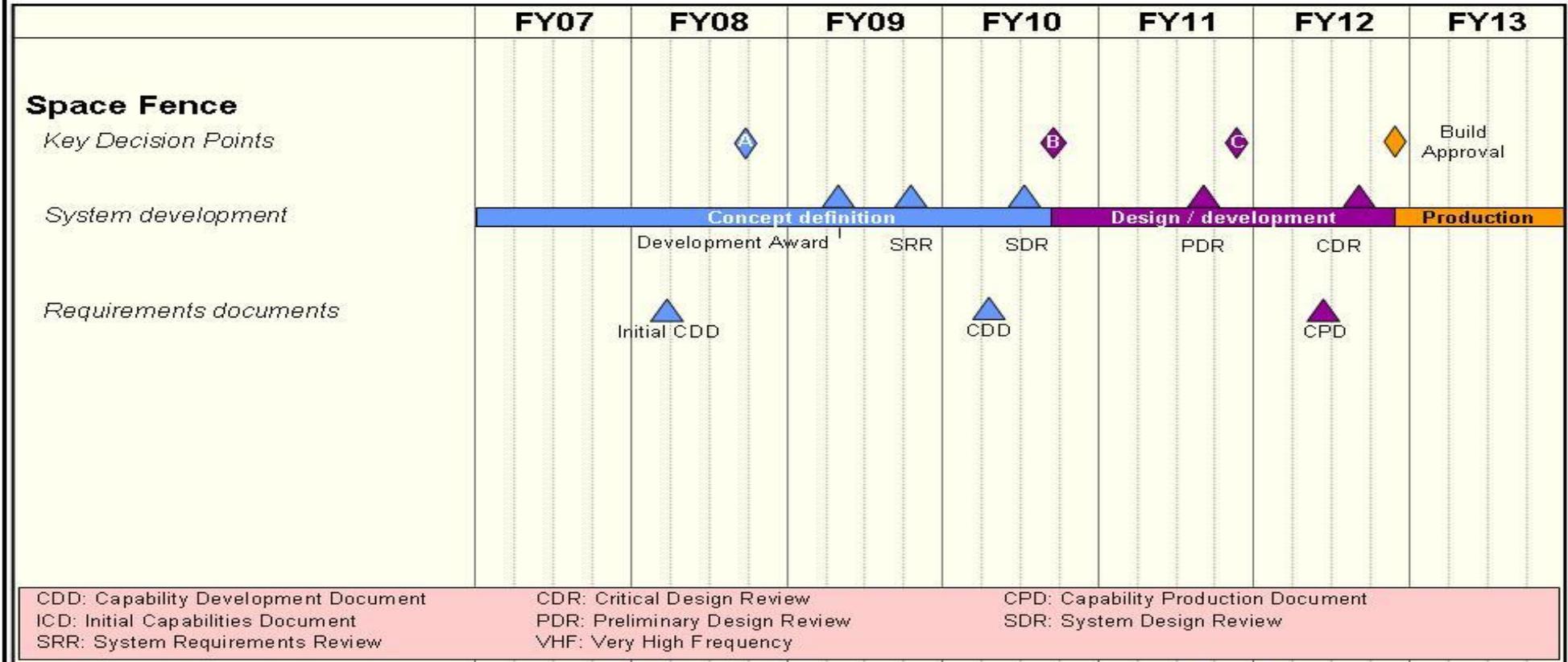
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February 2008

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

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(U) Schedule Profile

FY 2007

FY 2008

FY 2009

(U) Key Decision Point A

3Q

(U) Development award

2Q

(U) System Requirements Review

4Q