

UNCLASSIFIED

PE NUMBER: 0604443F

PE TITLE: Alternative Infrared Satellite System (AIRSS)

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604443F Alternative Infrared Satellite System (AIRSS)

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	102.962	228.727	350.000	535.000	700.000	0.000	0.000
A020 AIRSS	0.000	0.000	102.962	228.727	350.000	535.000	700.000	0.000	0.000

In FY 2007, this is a new PE. In FY 2007, Project Number 65A020, Alternative Infrared Satellite System includes new start efforts.

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

(U) The Alternative Infrared Satellite System (AIRSS) mission is to provide a missile warning capability for ballistic missile attack on the U.S., its deployed forces, and its allies while also supporting missile defense, battlespace characterization and technical intelligence missions. As a result of the Nunn-McCurdy certification for the Space Based Infrared System High (SBIRS High) program, the USD(AT&L) directed the DoD Executive Agent for Space to plan for a new program for space-based Overhead Non-Imaging Infrared (ONIR) that generates competition for the SBIRS GEO 3 satellite and exploits alternative technologies. This program will pursue an approach with acceptable technical risk that offers, at a minimum, Defense Support Program (DSP)-like missile warning capability and can ensure a launch availability date of FY2015.

(U) This program is assigned to Budget Activity 5, System Development and Demonstration (SDD), because it funds the development activities for an alternative to the SBIRS High program.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget			0.000
(U) Current PBR/President's Budget	0.000	0.000	102.962
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
In FY 2007, this is a new PE.			

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

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0604443F Alternative Infrared Satellite
System (AIRSS)

PROJECT NUMBER AND TITLE

A020 AIRSS

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
A020 AIRSS	0.000	0.000	102.962	228.727	350.000	535.000	700.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

(U) The Alternative Infrared Satellite System (AIRSS) mission is to provide a missile warning capability for ballistic missile attack on the U.S., its deployed forces, and its allies while also supporting missile defense, battlespace characterization and technical intelligence missions. As a result of the Nunn-McCurdy certification for the Space Based Infrared System High (SBIRS High) program, the USD(AT&L) directed the DoD Executive Agent for Space to plan for a new program for space-based Overhead Non-Imaging Infrared (ONIR) that generates competition for the SBIRS GEO 3 satellite and exploits alternative technologies. This program will pursue an approach with acceptable technical risk that offers, at a minimum, Defense Support Program (DSP)-like missile warning capability and can ensure a launch availability date of FY2015.

(U) This program is assigned to Budget Activity 5, System Development and Demonstration (SDD), because it funds the development activities for an alternative to the SBIRS High program.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) AIRSS Concept Definition			92.662
(U) Program office and technical support including federally funded research and development center (FFRDC)			10.300
(U)			
(U) Total Cost	0.000	0.000	102.962

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

	<u>FY 2005</u>	<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>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)

(U) **D. Acquisition Strategy**

The AIRSS program has been directed to undertake technology development, risk reduction and program planning to meet a milestone review in FY2008 that could approve start of system design and development (SDD) in FY08. The DoD Executive Agent for Space will provide a plan for the parallel program, to include both the technology risk reduction phase and the subsequent system acquisition phase, to the Defense Acquisition Executive in April 2006.

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Exhibit R-3, RDT&E Project Cost Analysis

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A020 AIRSS

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> AIRSS Concept Definition Subtotal Product Development Remarks:	Various	various	0.000	0.000		0.000		92.662 92.662		Continuing Continuing	TBD TBD	0.000
(U) <u>Support</u> Program office and technical support including federally funded research and development center (FFRDC) Subtotal Support Remarks:	Various	Space and Missile Center, El Segundo, CA	0.000	0.000		0.000		10.300 10.300		Continuing Continuing	TBD TBD	0.000
(U) <u>Test & Evaluation</u> Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Management</u> Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000	0.000	0.000
(U) Total Cost			0.000	0.000		0.000		102.962		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

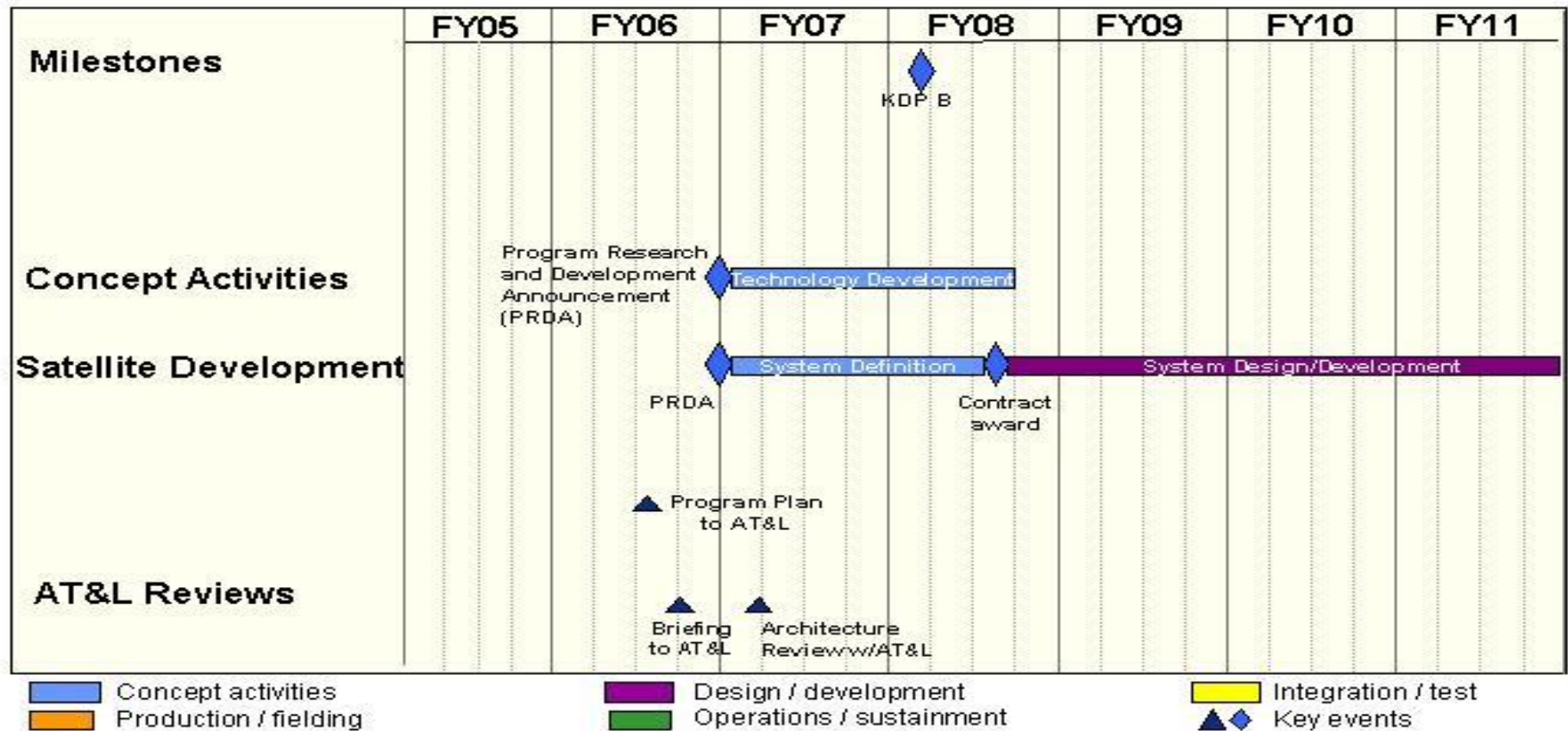
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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Architecture review complete

1Q

(U) System definition start

1Q

(U) Technology development study contracts award

2Q