

UNCLASSIFIED

PE NUMBER: 0604337F
 PE TITLE: Requirements Analysis and Maturation

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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0604337F Requirements Analysis and Maturation
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	35.533	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5349 Non-Space Systems Requirements Analysis & Maturation	0.000	0.000	28.651	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A024 Space Systems Requirements Analysis & Maturation	0.000	0.000	6.882	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(U) **A. Mission Description and Budget Item Justification**
 The Requirements Analysis and Maturation (RAM) program executes integrated materiel studies and analyses across the AF enterprise (air, space, cyber, and weapons) in support of AF corporate structure processes for formulating, planning and coordinating technology maturation and pre-acquisition program development activities. This effort is in Budget Activity 4, Advanced Component Development and Prototypes, since it involves system specific efforts that expedite technology transition from the laboratory to operational use.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget			
(U) Current PBR/President's Budget	0.000	0.000	35.533
(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>			

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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)				PE NUMBER AND TITLE 0604337F Requirements Analysis and Maturation				PROJECT NUMBER AND TITLE 5349 Non-Space Systems Requirements Analysis & Maturation		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5349 Non-Space Systems Requirements Analysis & Maturation	0.000	0.000	28.651	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The Non-Space Systems Requirements Analysis and Maturation (RAM) program addresses a critical need for decision-quality acquisition information prior to committing to a program new start. A number of DoD, GAO, and industry studies point to a need for more disciplined, up-front development planning to produce the detailed acquisition information that previously did not surface until after the initiation of a program. RAM executes integrated materiel studies and analyses across the AF enterprise in support of AF corporate structure processes for formulating, planning and coordinating pre-acquisition development activities. This program is also responsible for: analyzing published and draft capability needs and requirements to identify potential materiel issues and opportunities; devising materiel solution options to address AF enterprise capability needs and shortfalls; executing cross domain studies and analyses to optimize materiel solution options for the AF; and conducting directed studies and analyses to respond to warfighter capability shortfalls.

This effort will perform a range of activities, including solution analysis, requirements definition, acquisition strategy base-lining, modeling and simulation, and cost analysis. Efforts will focus on delivering improved integrated materiel solution options.

RAM integrated development planning efforts define preferred materiel concepts and develop acquisition strategies for systems that support those preferred concepts. RAM becomes engaged when a materiel solution is required to fulfill a capability gap or deficiency. It applies appropriate engineering, costing, program management, logistics, and contracting expertise to support the development of warfighting materiel solution options that can be delivered within identified cost, schedule and performance requirements.

This effort is not represented by any other current program within the major force program structure elements. This new and comprehensive approach will ensure adequate oversight and coordination of previously unconsolidated materiel studies, analyses and development. This ensures efficient and effective systems of systems development planning via consolidation of previously unique system capabilities resident only within individualized program elements.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MAJOR THRUST: Conduct RAM activities supporting Force Application capabilities -- the ability to integrate the use of maneuver and engagement in all environments to create the effects necessary to achieve mission objectives.	0.000	0.000	5.174
(U) In FY 2008: Not Applicable			
(U) In FY 2009: Not Applicable			
(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities. Efforts include the Combat Air Forces Directed Energy (CAF DE) Roadmap supporting the foundation and justification of FY12 DE-related POM			

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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<p>initiatives; the Chief of Staff Air Force (CSAF) directive to the DE Task Force; and the Next Generation Air Dominance (NGAD) concept exploration of a system or system-of-systems to provide the next generation air dominance capability; and Joint Future Theater Lift (JFTL) concept analysis for recapitalization efforts to replace/supplement the aging theater airlift fleet.</p>			
<p>(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include the CAF DE Roadmap supporting the foundation and justification of FY12 DE-related POM initiatives; the CSAF directive to the DE Task Force; the NGAD concept exploration of a system or system-of-systems to provide the next generation air dominance capability; and the JFTL concept analysis for recapitalization efforts to replace/supplement the aging theater airlift fleet.</p>			
<p>(U) MAJOR THRUST: Conduct RAM activities supporting Command and Control capabilities -- the ability to exercise authority and direction by a properly designated commander or decision maker over assigned and attached forces and resources in the accomplishment of the mission.</p>	0.000	0.000	4.446
<p>(U) In FY 2008: Not Applicable</p>			
<p>(U) In FY 2009: Not Applicable</p>			
<p>(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: E-4B Replacement and Presidential Aircraft Recapitalization (PAR) support for pre-acquisition activities.</p>			
<p>(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: E-4B Replacement and PAR support for pre-acquisition activities.</p>			
<p>(U) MAJOR THRUST: Execute RAM activities supporting Battlespace Awareness -- the ability to understand dispositions and intentions as well as the characteristics and conditions of the operational environment that bear on national and military decision-making.</p>	0.000	0.000	5.014
<p>(U) In FY 2008: Not Applicable</p>			
<p>(U) In FY 2009: Not Applicable</p>			
<p>(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities to include: Next Generation Unmanned Aerial System (UAS) system engineering studies and requirements documentation support.</p>			

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	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
(U) B. Accomplishments/Planned Program (\$ in Millions)				
(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Next Generation UAS system engineering studies and requirements documentation support.				
(U) MAJOR THRUST: Conduct RAM activities supporting Net Centric operations -- the ability to provide a framework for full human and technical connectivity and interoperability that allows all DoD users and mission partners to share the information they need, when they need it, in a form they can understand and act on with confidence, and protect information from those who should not have it.	0.000	0.000	5.014	
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Interoperable Multi-functional Advanced Datalink (IMADL) for the F-35, F-22, B-2, Objective Gateway, and other Global Strike assets that support planning for an interoperable datalink that allows low observable (LO) platforms to exchange threat, target and sensor information to provide situational awareness (SA) and target identification and geo-location.				
(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Interoperable Multi-functional Advanced Datalink (IMADL) for the F-35, F-22, B-2, Objective Gateway, and other Global Strike assets that support planning for an interoperable datalink that allows low observable (LO) platforms to exchange threat, target and sensor information to provide SA and target identification and geo-location.				
(U) MAJOR THRUST: Conduct RAM activities supporting Protection -- the ability to prevent/mitigate adverse effects of attacks on combatant and non-combatant personnel and physical assets of the United States, allies and friends.	0.000	0.000	3.978	
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Common Vertical Lift Support (CVLSP) program that will replace the aging UH-1N fleet to accomplish nuclear convoy escort, tactical security response, and AF VIP transport missions.				
(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities to include: Common Vertical Lift				

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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Support (CVLSP) program that will replace the aging UH-1N fleet to accomplish nuclear convoy escort, tactical security response, and AF VIP transport missions.			
(U) MAJOR THRUST: Conduct RAM activities supporting Force Support -- the ability to establish, develop, maintain and manage a mission ready Total Force, and provide, operate, and maintain capable installation assets across the total force to ensure needed capabilities are available to support national security.	0.000	0.000	5.025
(U) In FY 2008: Not Applicable			
(U) In FY 2009: Not Applicable			
(U) In FY 2010: Execute integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Advance Trainer Replacement Program (T-X) requirements definition to explore solutions to fill significant operational capability gaps due to the T-38C approaching the end of service life in 2018.			
(U) In FY 2011: Continue executing integrated materiel studies and analyses across the AF corporate structure process for formulating, planning and coordinating pre-acquisition development activities, to include: Advance Trainer Replacement Program (T-X) requirements definition to explore solutions to fill significant operational capability gaps due to the T-38C approaching the end of service life in 2018.			
(U) Total Cost	0.000	0.000	28.651

(U) C. Other Program Funding Summary (\$ in Millions)		<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>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
		<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) N/A

(U) D. Acquisition Strategy
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. Communication with industry will be open and encouraged.

Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
04 Advanced Component Development and Prototypes (ACD&P)				0604337F Requirements Analysis and Maturation				5349 Non-Space Systems Requirements Analysis & Maturation				
(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 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Force Application Development Planning								5.174	Dec-09	Continuing	TBD	TBD
Command and Control Development Planning								4.446	Feb-09	Continuing	TBD	TBD
Battlespace Awareness Development Planning								5.014	Feb-09	Continuing	TBD	TBD
Net Centric Development Planning								5.014	Feb-09	Continuing	TBD	TBD
Protection Development Planning								3.978	Apr-09	Continuing	TBD	TBD
Force Support Development Planning								5.025	Apr-09	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		28.651		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	0.000		0.000		28.651		Continuing	TBD	TBD

Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) FY10 RAM Prioritization		2Q	
(U) FY11 RAM Prioritization			2Q
(U) FY10 RAM Portfolio Development Finalized		4Q	
(U) FY11 RAM Portfolio Development Finalized			4Q
(U) Studies & Analysis			1-4Q
(U) Studies & Analysis Outbriefs			2-4Q

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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total	
A024 Space Systems Requirements Analysis & Maturation	0.000	0.000	6.882	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

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

The Space Systems Requirements Analysis and Maturation (RAM) program addresses a critical need for decision-quality acquisition information prior to committing to a program new start. A number of DoD, GAO, and industry studies point to a need for more disciplined, up-front development planning to produce the detailed acquisition information that previously did not surface until after the initiation of a program. The Space Systems RAM program provides a disciplined, deliberate planning process to analyze requirements, schedule, cost, technology, and acquisition strategy. The objective is to provide critical decision-quality cost, schedule and technical information for Air Force and DoD senior leaders to support their acquisition decisions for the \$10B annual space investment portfolio and initiating high-confidence acquisition programs.

RAM activities will include science and technology planning, concept and architecture development, acquisition strategy baselining, modeling and simulation, cost analysis, and the pre-planning required for successful demonstration and validation of prototypes and system-of-systems demonstrations. Activities will focus on delivering long-term, integrated, permanent space warfighting capabilities to the COCOMS.

The Space Systems RAM will provide the capability to assess the performance, or cost reduction potential, of advanced technology in a near-realistic operational environment, and a rapid transition of capabilities to the warfighter. RAM will assess technology readiness levels for systems prior to key acquisition decision points. Specifically, RAM will mitigate risk before a program is sent to Engineering and Manufacturing Development/Systems Design and Development and will provide the government a cost baseline prior to commitment to a full acquisition program.

RAM is a new and comprehensive approach that will ensure adequate oversight and coordination of previously unconsolidated materiel studies, analyses, and development. System-of-systems development will support consolidation of previously unique system capabilities resident only within unique program elements.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MAJOR THRUST: Conduct RAM activities supporting Space Situational Awareness (SSA) and Command and Control (C2) Development Planning. The SSA portfolio provides data, information and knowledge to the C2 systems which assure use of space by friendly forces and deny that medium to the enemy. C2 capabilities are the exercise of authority and direction by a properly designated commander over assigned and attached forces in the accomplishment of the mission. Specifically this thrust assists in the development of SSA and C2 capabilities to meet Joint Force Component Commander (JFCC) Space mission needs and supports the NORAD/USSTRATCOM Integrated Tactical Warning and Attack Assessment (ITW/AA) missions (Air Warning & Battle Management, Missile Warning, Space Surveillance/Warning, and core ITW/AA C2) and the Combatant Commander's Integrated	0.000	0.000	0.350

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		FY 2008	FY 2009	FY 2010
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>				
C2 System (CCIC2S).				
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Execute space enterprise development planning efforts to streamline and exploit information dissemination through the existing and emerging space command and control architecture.				
(U) In FY 2011: Continue executing space enterprise development planning efforts to streamline and exploit information dissemination through the existing and emerging space command and control architecture.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Space Protection (SP) and Information Operations (IO) Development Planning. The SP and IO portfolio secures the space domain and provides USSTRATCOM the means to achieve desired effects. It will establish and maintain assured access and freedom of action in space by developing capabilities and techniques to deter, dissuade, degrade, deny, disrupt and destroy adversary space systems in support of joint warfighters and national decision makers.	0.000	0.000	0.350	
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Execute space enterprise development planning efforts to formulate materiel responses to the increasing space threat environment.				
(U) In FY 2011: Continue executing space enterprise development planning efforts to formulate materiel responses to the increasing space threat environment.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Missile Warning/Missile Defense (MW/MD) Development Planning. The MW/MD portfolio is built from a family of global space-based infrared systems, electro-optical and radar systems, and multi-mission radars, all designed to provide critical missile warning, missile defense, technical intelligence, and battlespace awareness to military, National Intelligence and civil personnel to successfully accomplish their missions. This includes but is not limited to overhead surveillance and reconnaissance capabilities-based operations and space-based surveillance and reconnaissance systems within the context of Air Force processes (e.g., the Joint Capabilities Integration and Development System (JCIDS)). Specific activities include Overhead Non-Imaging Infrared (ONIR) systems and data and environmental programs, satellite-sensed environmental systems (atmosphere, land, space environment, ocean, and climate), and their data destined for military and civil users worldwide.	0.000	0.000	2.100	
(U) In FY 2008: Not Applicable				

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>		<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Execute space enterprise analyses of alternatives investigating future mission architectures, to include the feasibility of disaggregating submissions to simpler, lower cost system of system elements.				
(U) In FY 2011: Continue executing space enterprise analyses of alternatives investigating future mission architectures, to include the feasibility of disaggregating submissions to simpler, lower cost system of system elements.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Deterrence and Strike Development Planning . The Deterrence and Strike portfolio is based on ballistic missile operational requirements to meet AF, USSTRATCOM, DoD, and national objectives. These programs provide for nuclear and/or conventional destruction of adversary targets, as well as life extension efforts for the Intercontinental Ballistic Missile (ICBM) system, providing stability through deterrence.		0.000	0.000	0.350
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Formulate materiel roadmaps that transition the mission architecture from sustainment to the development of next generation nuclear deterrence and conventional strike capabilities.				
(U) In FY 2011: Continue formulation of materiel roadmaps that transition the mission architecture from sustainment to the development of next generation nuclear deterrence and conventional strike capabilities.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Positioning, Navigation and Timing (PNT) Development Planning. The PNT portfolio is designed to ensure sustainment and operations of space-based, global, 24/7, precise, reliable 3D PNT services to support the Joint Force Commander and meet civil capabilities in accordance with national policy.		0.000	0.000	1.050
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Formulate materiel approaches to produce a more robust mission architecture to counter growing enemy attempts to deny US and coalition partners PNT capabilities.				
(U) In FY 2011: Continue formulation of materiel approaches to produce a more robust mission architecture to counter growing enemy attempts to deny US and coalition partners PNT capabilities.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Military Satellite Communications (MILSATCOM) Development Planning. The MILSATCOM portfolio provides connectivity for key military, civil and commercial		0.000	0.000	1.050

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		<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) B. Accomplishments/Planned Program (\$ in Millions)				
personnel and components. The portfolio is based on systems providing nuclear protected, anti-jam, Low Probability of Detection/Intercept/Exploitation, wide-band, and other space-based communications capabilities for joint, allied, coalition and international partners. The MILSATCOM portfolio ensures critical parties can be connected for key decision making and execution of military activities and underpins the efficient and safe delivery of information and C2 for its users.				
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Formulate materiel approaches to recapitalizing wideband and protected satellite communications capabilities beyond the next generation programs in light of an increasingly cost-constrained fiscal environment.				
(U) In FY 2011: Continue formulation of materiel approaches to recapitalizing wideband and protected satellite communications capabilities beyond the next generation programs in light of an increasingly cost-constrained fiscal environment.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Launch, Range and Networks Development Planning. The Launch, Range and Networks portfolio provides capabilities needed to launch critical space assets to and through space, when required, and provide on-demand access to these assets from pre-launch through disposal/recovery to obtain mission objectives. They are a family of enabling capabilities supporting the other major thrusts in this Budget Activity.		0.000	0.000	0.700
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				
(U) In FY 2010: Explore standards-based, open mission architecture approaches to reduce stovepiped infrastructure elements for more cost efficient, effective, flexible and assured operations.				
(U) In FY 2011: Continue exploring standards-based, open mission architecture approaches to reduce stovepiped infrastructure elements for more cost efficient, effective, flexible and assured operations.				
(U)				
(U) MAJOR THRUST: Conduct RAM activities supporting Operationally Responsive Space (ORS) Development Planning. ORS systems provide capability-based services to assure space power is focused on timely satisfaction of Joint Force Commander needs. ORS systems focus resources towards satisfying on-demand warfighting capabilities and reducing the associated cost and time required to supply space-based warfighting support services.		0.000	0.000	0.350
(U) In FY 2008: Not Applicable				
(U) In FY 2009: Not Applicable				

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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) In FY 2010: Execute development of materiel responses to combatant commanders' emerging urgent need requests.			
(U) In FY 2011: Continue executing development of materiel responses to combatant commanders' emerging urgent need requests.			
(U) MAJOR THRUST: Conduct RAM activities supporting AF-wide Enterprise Development Planning: AF-wide Enterprise programs organize, relate, and integrate the other major thrust areas in this Budget Activity amongst themselves and support their integration into the larger AF, and DoD warfighting systems of systems. They also provide architectural continuity and best value of services to meet the full range of National Security Space requirements by integrating across systems, linking them in novel and surprising ways which complicate our adversaries' plans and execution.	0.000	0.000	0.700
(U) In FY 2008: Not Applicable			
(U) In FY 2009: Not Applicable			
(U) In FY 2010: Execute AF enterprise studies to integrate air, cyber, and space system of system elements to provide more efficient and effective mission architectures.			
(U) In FY 2011: Continue executing AF enterprise studies to integrate air, cyber, and space system of system elements to provide more efficient and effective mission architectures.			
(U) Total Cost	0.000	0.000	7.000

(U) C. Other Program Funding Summary (\$ in Millions)	<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>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>	<u>Total Cost</u>						
(U) N/A										

(U) D. Acquisition Strategy
 All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. Communication with industry will be open and encouraged.

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Exhibit R-3, RDT&E Project Cost Analysis

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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 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Space Situational Awareness and Command & Control Development Planning								0.350	Dec-09	Continuing	TBD	TBD
Space Protection and Information Operations Development Planning								0.350	Dec-09	Continuing	TBD	TBD
Missile Warning / Missile Defense Development Planning								2.100	Dec-09	Continuing	TBD	TBD
Deterrence and Strike Development Planning								0.350	Dec-09	Continuing	TBD	TBD
Positioning, Navigation and Timing Development Planning								1.050	Dec-09	Continuing	TBD	TBD
Military Satellite Communications Development Planning								1.050	Dec-09	Continuing	TBD	TBD
Launch, Ranges and Networks Development Planning								0.700	Dec-09	Continuing	TBD	TBD
Operationally Responsive Space Development Planning								0.350	Dec-09	Continuing	TBD	TBD
AF-Wide Enterprise Development Planning								0.700	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		7.000		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	0.000		0.000		7.000		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE
0604337F Requirements Analysis and Maturation

PROJECT NUMBER AND TITLE
A024 Space Systems Requirements Analysis & Maturation

Space Systems Requirements, Analysis, and Maturation (RAM) Master Schedule

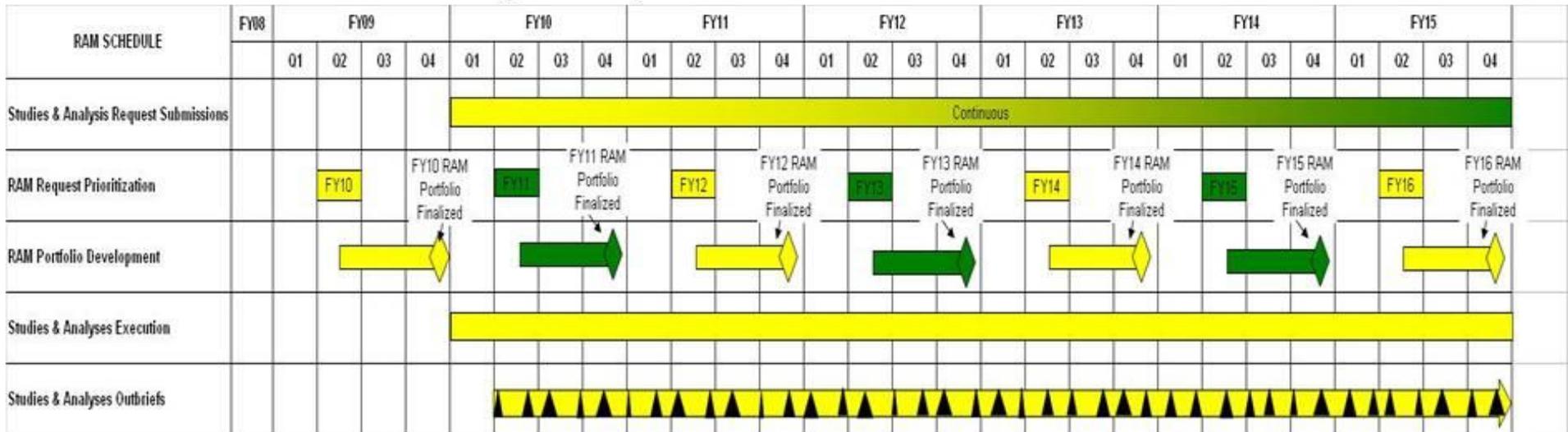


Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604337F Requirements Analysis and Maturation

PROJECT NUMBER AND TITLE

A024 Space Systems Requirements Analysis & Maturation

(U) **Schedule Profile**

(U) FY10 RAM Prioritization

(U) FY11 RAM Prioritization

(U) FY10 RAM Portfolio Development Finalized

(U) FY11 RAM Portfolio Development Finalized

(U) Studies & Analyses

(U) Studies & Analyses Outbriefs

FY 2008

FY 2009

FY 2010

2Q

2Q

4Q

4Q

1-4Q

2-4Q