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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305174F: SPACE WARFARE CENTER							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	2.890	2.961	2.929	0.000	2.929	2.971	2.436	2.480	2.523	Continuing	Continuing
67A011: Space Analysis and Application Development	2.890	2.961	2.929	0.000	2.929	2.971	2.436	2.480	2.523	Continuing	Continuing
A. Mission Description and Budget Item Justification											
Located at Schriever Air Force Base, Colorado, the Space Innovation and Development Center develops, evaluates, tests, and integrates space application and utility concepts, as well as new technologies, while providing combat effects to warfighters, such as aid in mission planning of Global Positioning System (GPS) aided/guided munitions. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realize the full potential of existing and planned space capabilities.											
The Space Analysis and Application Development project develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current.											
This effort is in Budget Activity 7, Operational System Development, because it develops and modifies software models for fielded analysis systems.											

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B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	2.974	3.009	0.000	0.000	0.000
Current President's Budget	2.890	2.961	2.929	0.000	2.929
Total Adjustments	-0.084	-0.048	2.929	0.000	2.929
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.084	-0.048	2.929	0.000	2.929
Change Summary Explanation					
FY 2011: The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0305174F: <i>SPACE WARFARE CENTER</i>				<b>PROJECT</b> 67A011: <i>Space Analysis and Application Development</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
67A011: <i>Space Analysis and Application Development</i>	2.890	2.961	2.929	0.000	2.929	2.971	2.436	2.480	2.523	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Located at Schriever Air Force Base, Colorado, the Space Innovation and Development Center develops, evaluates, tests, and integrates space application and utility concepts, as well as new technologies, while providing combat effects to warfighters, such as aid in mission planning of Global Positioning System (GPS) aided/guided munitions. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realize the full potential of existing and planned space capabilities.

The Space Analysis and Application Development project develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current.

This effort is in Budget Activity 7, Operational System Development, because it develops and modifies software models for fielded analysis systems.

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

	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
MAJOR THRUST: Develops, verifies, and validates new models for space mission areas and modifies existing models to portray new capabilities. Models used by the Air Force Space Command's (AFSPC) S...	1.370	1.374	1.353	0.000	1.353
<i>FY 2009 Accomplishments:</i> In FY 2009: Model modification.					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY 2010: Model modification.						
FY 2011 Base Plans: In FY 2011: Model modification.						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Verification of model changes. FY 2009 Accomplishments: In FY 2009: Verification of model changes. FY 2010 Plans: In FY 2010: Verification of model changes. FY 2011 Base Plans: In FY 2011: Verification of model changes. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.		0.584	0.612	0.599	0.000	0.599
MAJOR THRUST: Validation of model change results. FY 2009 Accomplishments: In FY 2009: Validation of model change results. FY 2010 Plans: In FY 2010: Validation of model change results.		0.936	0.975	0.977	0.000	0.977

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force							<b>DATE:</b> February 2010				
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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
						<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	
<b>FY 2011 Base Plans:</b> In FY 2011: Validation of model change results.											
<b>FY 2011 OCO Plans:</b> In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals						2.890	2.961	2.929	0.000	2.929	
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PE Not Provided (18424): <i>Other Procurement, Air Force (Weapon System Code 832070, Intelligence Communications Equipment)*</i>	0.457	0.471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE Not Provided (18436): <i>Other Procurement, Air Force (Weapon System Code 834010, Intelligence Communications Equipment)*</i>	0.000	0.000	0.478	0.000	0.478	0.491	0.500	0.509	0.519	0.000	0.000
<b>D. Acquisition Strategy</b>											
Any new projects funded in this program will be awarded using competitive procedures to the maximum extent possible.											
<b>E. Performance Metrics</b>											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
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<b>Product Development (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Develop/modify software tools and models	C/FP	Various Various	3.418	1.045	Jan 2010	1.035	Jan 2011	0.000		1.035	Continuing	Continuing	Continuing
Develop/modify software tools and models (1)	C/CPAF	Scitor Colorado Springs, CO	2.954	1.916	Oct 2009	1.894	Oct 2009	0.000		1.894	Continuing	Continuing	Continuing
<b>Subtotal</b>			6.372	2.961		2.929		0.000		2.929			
<b>Remarks</b>													
			<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			6.372	2.961		2.929		0.000		2.929			
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.													

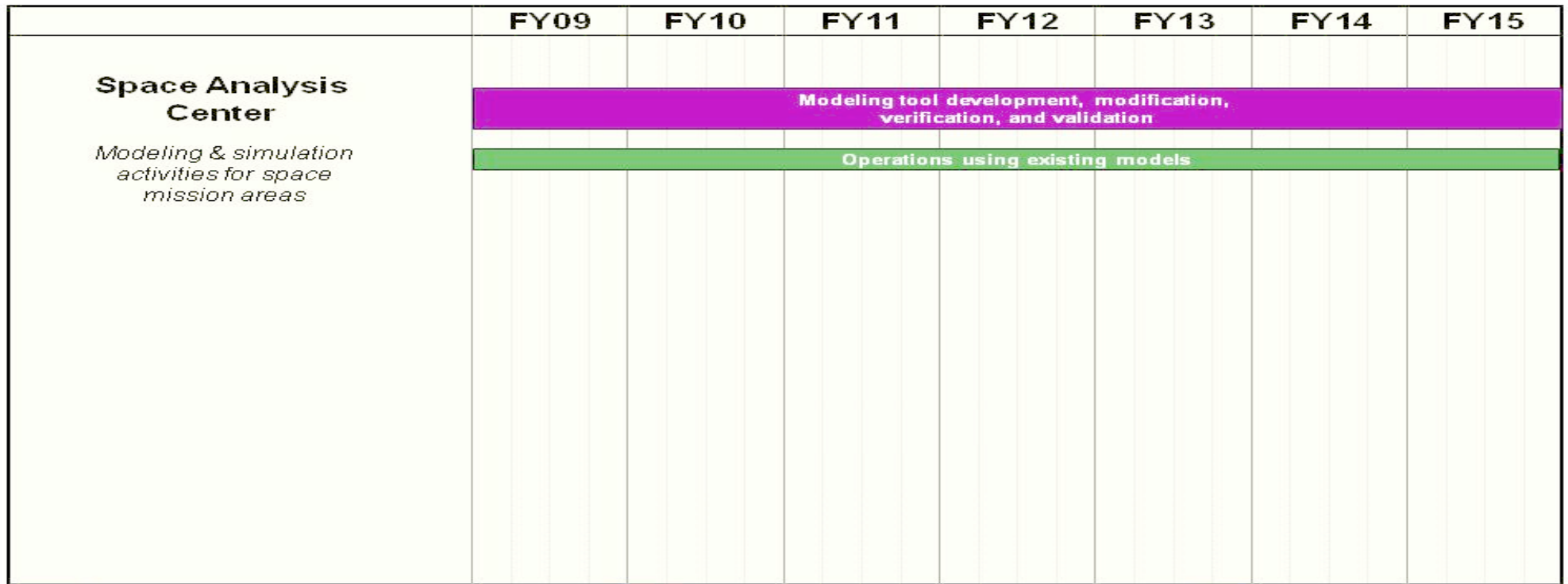
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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2011 Air Force</b>			<b>DATE:</b> February 2010		
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- |  |  |  |
|--|--|--|
|  Concept activities    |  Design / development     |  Integration / test |
|  Production / fielding |  Operations / sustainment |  Key events         |

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010	
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Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Model modification, verification, and validation	1	2009	4	2011

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