Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0305174F: SPACE WARFARE CENTER

DATE: February 2011

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	2.948	2.929	2.961	-	2.961	2.425	2.469	2.511	2.554	Continuing	Continuing
67A011: Space Analysis and Application Development	2.948	2.929	2.961	-	2.961	2.425	2.469	2.511	2.554	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.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	2.961	2.929	2.971	-	2.971
Current President's Budget	2.948	2.929	2.961	-	2.961
Total Adjustments	-0.013	-	-0.010	-	-0.010
<ul> <li>Congressional General Reductions</li> </ul>		-			
<ul> <li>Congressional Directed Reductions</li> </ul>		-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>		-			
<ul> <li>Congressional Directed Transfers</li> </ul>		-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-0.013	-	-0.010	-	-0.010

# **Change Summary Explanation**

FY 2011: No significant program changes. FY 2012: No significant program changes.

Air Force Page 1 of 7 R-1 Line Item #196

**DATE:** February 2011

•	PROPRIATION/BUDGET ACTIVITY  0: Research, Development, Test & Evaluation, Air Force  7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305174F: SPACE WARFARE CENTER Development  PROJECT 67A011: Space Analysis and Application Development			ation			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
67A011: Space Analysis and Application Development	2.948	2.929	2.961	-	2.961	2.425	2.469	2.511	2.554	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

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 Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Title: Model Development/Modification	1.361	1.353	1.367	-	1.367
<b>Description:</b> 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) Space Analysis Center for military utility analyses, trade studies, and other evaluations of space programs supporting program offices at the Space and Missile Center, HQ AFSPC and other activities with a space focus.					
FY 2010 Accomplishments: Model modification.					
FY 2011 Plans: Model modification.					
FY 2012 Base Plans: Model modification.					
FY 2012 OCO Plans:					

Air Force Page 2 of 7 R-1 Line Item #196

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Exhibit R-2A, RDT&E Project Justi	fication: PB	2012 Air Fo	rce					D	ATE: Febr	uary 2011	
APPROPRIATION/BUDGET ACTIVI 3600: Research, Development, Test BA 7: Operational Systems Developr	& Evaluation,	Air Force		<b>R-1 ITEM NO</b> PE 0305174I		URE /ARFARE CEI	NTER 6	PROJECT 67A011: Space Analysis and Application Development			
B. Accomplishments/Planned Prog	grams (\$ in N	<u>/lillions)</u>					FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Model Verification							0.612	2 0.599	0.615	5 -	0.615
Description: Verification of model ch	nanges.										
FY 2010 Accomplishments: Verification of model changes.											
FY 2011 Plans: Verification of model changes.											
FY 2012 Base Plans: Verification of model changes.											
FY 2012 OCO Plans:											
Title: Model Validation							0.97	5 0.977	0.979	-	0.979
Description: Validation of model cha	ange results.										
FY 2010 Accomplishments: Validation of model change results.											
FY 2011 Plans: Validation of model change results.											
FY 2012 Base Plans: Validation of model change results.											
FY 2012 OCO Plans:											
			Accomplis	hments/Plar	nned Progra	ams Subtotal	s 2.948	3 2.929	2.961	-	2.961
C. Other Program Funding Summa	ıry (\$ in Milli	ons)	FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	Total	FY 2013	FY 2014	FY 2015		Complete	
Other Procurement: Air Force (Weapon System Code 832070, Intelligence Communications Equipment)*	1.371	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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Air Force Page 3 of 7 R-1 Line Item #196

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	<b>PROJECT</b>	
3600: Research, Development, Test & Evaluation, Air Force	PE 0305174F: SPACE WARFARE CENTER	67A011: Sp	ace Analysis and Application
BA 7: Operational Systems Development		Developme	nt

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

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	<b>Complete</b>	<b>Total Cost</b>
Other Procurement (1): Air Force	0.000	1.383	1.410	0.000	1.410	1.432	1.453	1.313	1.503	Continuing	Continuing
(Magnan System Code 921010											

(Weapon System Code 834010, General Information Technology

# D. Acquisition Strategy

Any new projects funded in this program will be awarded using competitive procedures to the maximum extent possible.

### E. Performance Metrics

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.

Air Force Page 4 of 7 R-1 Line Item #196

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force DATE: February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** PE 0305174F: SPACE WARFARE CENTER 3600: Research, Development, Test & Evaluation, Air Force 67A011: Space Analysis and Application BA 7: Operational Systems Development Development FY 2012 FY 2012 FY 2012 **Product Development (\$ in Millions) FY 2011** Base oco Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of Complete **Cost Category Item Activity & Location** Cost Cost Date **Total Cost** Contract & Type Cost Date Cost Date Cost Develop/modify software tools/ C/TBD Various:Various, 4.450 1.035 Jan 2011 1.032 1.032 Continuing Continuing **TBD** Jan 2012 models Develop/modify software tools Scitor:Colorado C/CPAF 1.894 Oct 2009 Oct 2011 1.929 TBD 4.870 1.929 Continuina Continuina and models Springs, CO Subtotal 9.320 2.929 2.961 2.961 FY 2012 FY 2012 FY 2012 Support (\$ in Millions) FY 2011 Base oco Total Contract **Total Prior** Target Years Award **Cost To** Method Performing Award Award Value of **Cost Category Item Activity & Location** Cost Cost Cost Date Complete **Total Cost** Contract & Type Cost Date Date Cost Subtotal 0.000 0.000 0.000 **FY 2012** FY 2012 FY 2012 Test and Evaluation (\$ in Millions) oco FY 2011 Base Total **Total Prior** Contract Target Years Method Performing Award Award Award **Cost To** Value of **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Subtotal 0.000 0.000 0.000 **FY 2012** FY 2012 FY 2012 Management Services (\$ in Millions) FY 2011 Base oco Total **Total Prior** Contract Target Method Performing Years Award Award Award **Cost To** Value of Cost Cost **Total Cost** Contract **Cost Category Item** & Type **Activity & Location** Cost Cost Date Date Date Cost Complete Subtotal 0.000 0.000 0.000 Target **Total Prior** Value of Years FY 2012 FY 2012 FY 2012 Cost To Cost **FY 2011** oco Total Complete **Total Cost** Contract Base 9.320 2.929 2.961 2.961 **Project Cost Totals** Remarks

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Page 5 of 7 R-1 Line Item #196

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force	DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 8600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0305174F: <i>SPACE WARFARE CENTER</i>	PROJECT 67A011: Space Analysis and Application Development		

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0305174F: SPACE WARFARE CENTER	67A011: Sp	pace Analysis and Application
BA 7: Operational Systems Development		Developme	nt

# Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Model development/modification, verification, and validation	1	2010	4	2016	

Air Force Page 7 of 7 R-1 Line Item #196