

**UNCLASSIFIED**

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 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604421F: Counterspace Systems							
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	64.318	63.838	40.276	0.000	40.276	34.119	33.161	33.665	34.181	Continuing	Continuing
65A001: Counter Satellite Communications System	28.062	30.699	21.035	0.000	21.035	21.321	20.331	20.641	20.957	Continuing	Continuing
65A003: Rapid Identification Detection and Reporting System (RAIDRS)	27.284	25.816	11.875	0.000	11.875	5.339	5.257	5.336	5.419	Continuing	Continuing
65A005: Counterspace C2	8.972	7.323	7.366	0.000	7.366	7.459	7.573	7.688	7.805	Continuing	Continuing

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

This program supports the conduct of critical planning, technology insertion, and system acquisition in support of Air Force space control systems and associated command and control development to meet current and future military space control needs. Development and acquisition of counterspace systems will be conducted, capitalizing on the technology development and risk reduction efforts of PE 0603438F, Space Control Technology. This funding supports all development phases of the acquisition process including concept development, risk reduction, design, and demonstration. Space control systems include both offensive counterspace (OCS) and defensive counterspace (DCS) systems. OCS systems include the means to disrupt, deny, degrade, or destroy an adversary's space systems, or the information they provide, which may be used for purposes hostile to U.S. national security interests. DCS systems include both active and passive measures to protect U.S. and friendly space related capabilities (satellites, communications links, and supporting ground systems) from enemy attack or interference. This includes development efforts to prevent adversarial ability to use U.S. space systems and services for purposes hostile to U.S. national security interests. Counterspace Command and Control (C2) supports the development of command and control and mission planning capabilities in support of the fielding and employment of counterspace systems.

This program is in Budget Activity 5, System Development and Demonstration, because it supports the demonstration, engineering and manufacturing development of counterspace and space control systems.

**UNCLASSIFIED**

R-1 Line Item #69

Page 1 of 23

**UNCLASSIFIED**

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 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604421F: Counterspace Systems			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	76.147	64.248	0.000	0.000	0.000
Current President's Budget	64.318	63.838	40.276	0.000	40.276
Total Adjustments	-11.829	-0.410	40.276	0.000	40.276
• 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	-11.829	-0.410	40.276	0.000	40.276
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 65A005: Counterspace C2					
Congressional Add: Model, conduct "virtual testing," and analyze architectural options for the Rapid Attack Identification Detection and Reporting System.					
Congressional Add Subtotals for Project: 65A005					
Congressional Add Totals for all Projects					
Change Summary Explanation					
FY 2009: - \$8.9M BTR to a higher priority Air Force program and - \$2.929M for SBIR transfer					
FY 2010: - \$0.410M for FFRDC					
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.					

**UNCLASSIFIED**

R-1 Line Item #69

Page 2 of 23

**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A001: <i>Counter Satellite Communications System</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>
65A001: <i>Counter Satellite Communications System</i>	28.062	30.699	21.035	0.000	21.035	21.321	20.331	20.641	20.957	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>A. Mission Description and Budget Item Justification</b> <p>This effort supports concept exploration and follow-on system development of mobile/transportable counter satellite communications capabilities derived from technologies prototyped in PE0603438F, Space Control Technology, in the area of Offensive Counterspace. Future advanced counter satellite communications systems will also be developed in this program. Included are: architecture engineering, system hardware design and development, software design and integration, testing and procurement of capabilities to provide disruption of satellite communications signals in response to USSTRATCOM requirements.</p> <p>This program is in Budget Activity 5, System Development and Demonstration, because it supports the demonstration, engineering and manufacturing development of counterspace and space control systems.</p>											
<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>MAJOR THRUST:</b> Complete capability upgrades to the Block 10 Counter Communications System (CCS). Includes architecture development and program office support.  <i>FY 2009 Accomplishments:</i> In FY 2009: Continued development and integration of advanced capabilities for integration as a plug-in capability to the baseline Block 10 CCS.  <i>FY 2010 Plans:</i> In FY 2010: Continuing the development, integration and delivery of the CCS plug-in upgrades.							15.331	13.287	0.000	0.000	0.000

**UNCLASSIFIED**

R-1 Line Item #69

Page 3 of 23

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604421F: Counterspace Systems		PROJECT 65A001: Counter Satellite Communications System	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: Not applicable.					
FY 2011 OCO Plans: In FY2011 OCO: Not applicable.					
MAJOR THRUST: Study options and perform risk reduction prototyping for the next generation advanced counter communications capability. Includes test support funding.  FY 2009 Accomplishments: In FY 2009: Performed evaluation of available COTS/GOTS technologies and MAJCOM priorities and began development of next generation prototype.  FY 2010 Plans: In FY 2010: Completing prototype integration and test of the next generation CCS prototype.  FY 2011 Base Plans: In FY 2011: Not applicable.  FY 2011 OCO Plans: In FY2011 OCO: Not applicable.	12.731	1.710	0.000	0.000	0.000
MAJOR THRUST: Develop, integrate, test and field the CCS Pre-planned Product Improvement (P3I) program. Includes architecture development, studies & analysis, and program office support.  FY 2009 Accomplishments: In FY 2009: Not applicable.	0.000	15.702	21.035	0.000	21.035

**UNCLASSIFIED**

R-1 Line Item #69

Page 4 of 23

# UNCLASSIFIED

<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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>			<b>PROJECT</b> 65A001: <i>Counter Satellite Communications System</i>				
<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 2010 Plans:</b> In FY 2010: Use prototype lessons-learned to develop and integrate the first increment of the CCS P3I.											
<b>FY 2011 Base Plans:</b> In FY 2011: Complete development and integration and test of Increment 1 of the CCS P3I. Confirm requirements for Increment 2.											
<b>FY 2011 OCO Plans:</b> In FY2011 OCO: Not applicable.											
Accomplishments/Planned Programs Subtotals						28.062	30.699	21.035	0.000	21.035	
<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 0604421F: <i>Counterspace Systems (OPAF)</i>	8.845	4.000	11.541	5.600	17.141	10.123	10.282	10.444	10.605	0.000	0.000
<b>D. Acquisition Strategy</b>											
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible, to upgrade existing capabilities as well as to acquire next generation capabilities through incremental acquisitions.											
<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.											

UNCLASSIFIED

R-1 Line Item #69

Page 5 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</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 5: <i>Development &amp; Demonstration (SDD)</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>					<b>PROJECT</b> 65A001: <i>Counter Satellite Communications System</i>																																																																																																																											
<b>Product Development (\$ in Millions)</b> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method &amp; Type</th> <th rowspan="2">Performing Activity &amp; Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Architectural Engineering Support</td> <td>Various/ Various</td> <td>Various Various</td> <td align="right">27.738</td> <td align="right">3.370</td> <td>Jan 2010</td> <td align="right">3.454</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">3.454</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td>Block 10 Capability Upgrades</td> <td>SS/CPAF</td> <td>Harris Corp Melbourne, FL</td> <td align="right">9.407</td> <td align="right">0.500</td> <td>Jan 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">9.907</td> <td align="right">7.862</td> </tr> <tr> <td>Block 10 Capability Upgrades (1)</td> <td>C/CPAF</td> <td>General Dynamics Santa Clara, CA</td> <td align="right">8.394</td> <td align="right">2.621</td> <td>Jan 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">11.015</td> <td align="right">11.015</td> </tr> <tr> <td>Block 20 Prototype Development &amp; Future Capability Studies</td> <td>Various/ Various</td> <td>Various Various</td> <td align="right">12.957</td> <td align="right">1.250</td> <td>Nov 2009</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">14.207</td> <td align="right">13.371</td> </tr> <tr> <td>Block 20 Prototype Development &amp; Future Capability Studies (2)</td> <td>C/CPAF</td> <td>SI International Colorado Springs, CO</td> <td align="right">8.801</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">8.801</td> <td align="right">11.422</td> </tr> <tr> <td>Block 10 P3I Development</td> <td>C/CPAF</td> <td>Harris Corp Melbourne, FL</td> <td align="right">0.000</td> <td align="right">16.162</td> <td>Feb 2010</td> <td align="right">11.651</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">11.651</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">67.297</td><td align="right">23.903</td><td></td><td align="right">15.105</td><td></td><td align="right">0.000</td><td></td><td align="right">15.105</td><td></td><td></td><td></td> </tr> </tbody> </table>															Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Architectural Engineering Support	Various/ Various	Various Various	27.738	3.370	Jan 2010	3.454	Jan 2011	0.000		3.454	Continuing	Continuing	Continuing	Block 10 Capability Upgrades	SS/CPAF	Harris Corp Melbourne, FL	9.407	0.500	Jan 2010	0.000		0.000		0.000	0.000	9.907	7.862	Block 10 Capability Upgrades (1)	C/CPAF	General Dynamics Santa Clara, CA	8.394	2.621	Jan 2010	0.000		0.000		0.000	0.000	11.015	11.015	Block 20 Prototype Development & Future Capability Studies	Various/ Various	Various Various	12.957	1.250	Nov 2009	0.000		0.000		0.000	0.000	14.207	13.371	Block 20 Prototype Development & Future Capability Studies (2)	C/CPAF	SI International Colorado Springs, CO	8.801	0.000		0.000		0.000		0.000	0.000	8.801	11.422	Block 10 P3I Development	C/CPAF	Harris Corp Melbourne, FL	0.000	16.162	Feb 2010	11.651	Nov 2010	0.000		11.651	Continuing	Continuing	Continuing	<b>Subtotal</b>			67.297	23.903		15.105		0.000		15.105			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																																																																								
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																																																																											
Architectural Engineering Support	Various/ Various	Various Various	27.738	3.370	Jan 2010	3.454	Jan 2011	0.000		3.454	Continuing	Continuing	Continuing																																																																																																																								
Block 10 Capability Upgrades	SS/CPAF	Harris Corp Melbourne, FL	9.407	0.500	Jan 2010	0.000		0.000		0.000	0.000	9.907	7.862																																																																																																																								
Block 10 Capability Upgrades (1)	C/CPAF	General Dynamics Santa Clara, CA	8.394	2.621	Jan 2010	0.000		0.000		0.000	0.000	11.015	11.015																																																																																																																								
Block 20 Prototype Development & Future Capability Studies	Various/ Various	Various Various	12.957	1.250	Nov 2009	0.000		0.000		0.000	0.000	14.207	13.371																																																																																																																								
Block 20 Prototype Development & Future Capability Studies (2)	C/CPAF	SI International Colorado Springs, CO	8.801	0.000		0.000		0.000		0.000	0.000	8.801	11.422																																																																																																																								
Block 10 P3I Development	C/CPAF	Harris Corp Melbourne, FL	0.000	16.162	Feb 2010	11.651	Nov 2010	0.000		11.651	Continuing	Continuing	Continuing																																																																																																																								
<b>Subtotal</b>			67.297	23.903		15.105		0.000		15.105																																																																																																																											
<b>Remarks</b>																																																																																																																																					

**UNCLASSIFIED**

R-1 Line Item #69

Page 6 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A001: <i>Counter Satellite Communications System</i>						
<b>Support (\$ 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>	
System Program Office Support	Various/ Various	SMC EI Segundo, CA	19.157	6.796	Nov 2009	5.930	Nov 2010	0.000		5.930	Continuing	Continuing	Continuing	
<b>Subtotal</b>			19.157	6.796		5.930		0.000		5.930				
<b>Remarks</b>														
<b>Test and Evaluation (\$ 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>	
CCS Block 10 Test Support	Various/ Various	SMC EI Segundo, CA	2.100	0.000		0.000		0.000		0.000	0.000	2.100	2.567	
<b>Subtotal</b>			2.100	0.000		0.000		0.000		0.000	0.000	2.100	2.567	
<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>			88.554	30.699		21.035		0.000		21.035				
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.														

**UNCLASSIFIED**

R-1 Line Item #69

Page 7 of 23

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

**R-1 ITEM NOMENCLATURE**

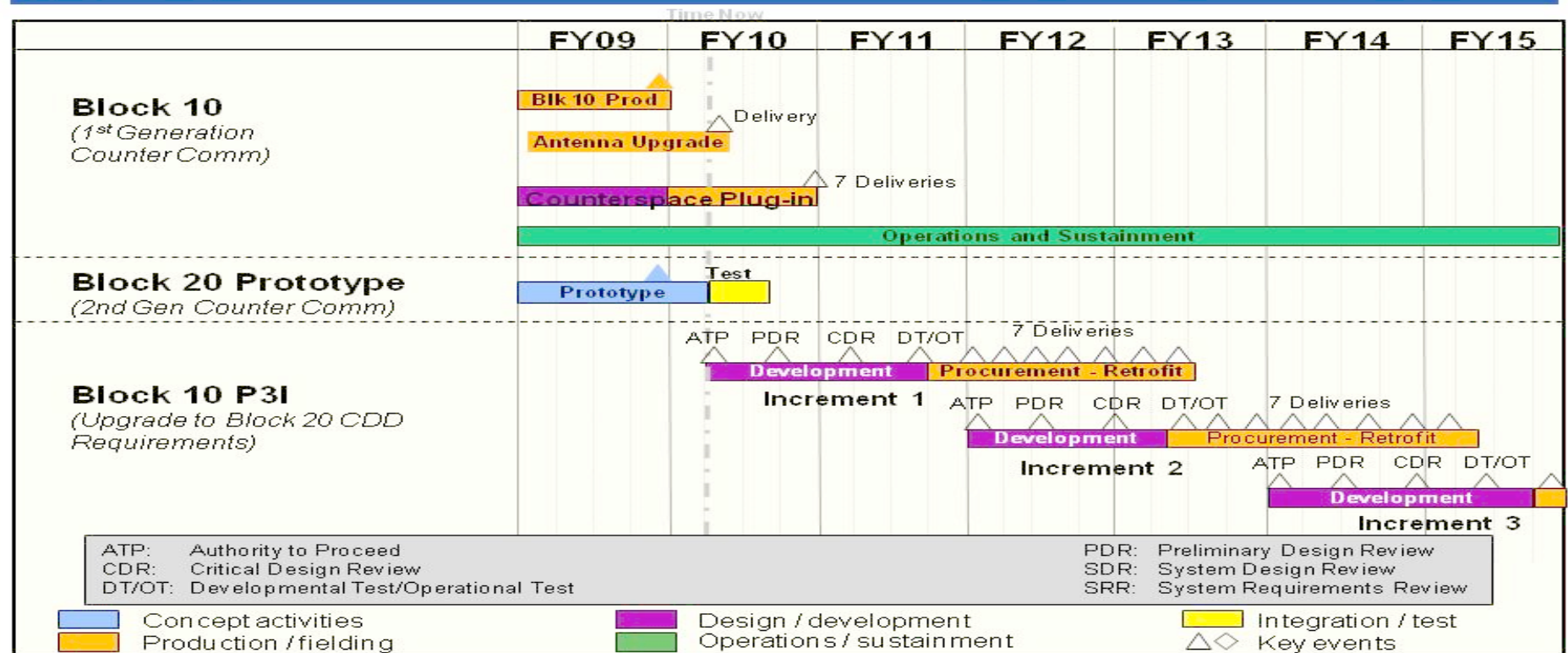
PE 0604421F: Counterspace Systems

**PROJECT**

65A001: Counter Satellite Communications System



# Counterspace Systems CCS Schedule



1

UNCLASSIFIED

R-1 Line Item #69

Page 8 of 23



**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</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 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>	<b>PROJECT</b> 65A001: <i>Counter Satellite Communications System</i>	

**Schedule Details**

<b>Event</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Block 10 Production	1	2009	4	2009
Capability Upgrades	1	2009	4	2010
Block 10 Upgrade Deliveries	4	2009	4	2010
Block 20 Prototype Development and Test	1	2009	2	2010
Block 10 P3I Contract Award	2	2010	2	2010
Block 10 P3I Increment 1 Development	2	2010	3	2011
Block 10 P3I Increment 1 DT/OT	3	2011	3	2011
Block 10 P3I Increment 1 Procurement	4	2011	4	2011

**UNCLASSIFIED**

R-1 Line Item #69

Page 9 of 23

**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</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>
65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>	27.284	25.816	11.875	0.000	11.875	5.339	5.257	5.336	5.419	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>Note</b> RAIDRS Block 20 content and funding were transferred to PE 0305614F, Joint Space Operations Center (JSpOC) Mission Systems effective in FY 2010.											
<b>A. Mission Description and Budget Item Justification</b> The RAIDRS program performs attack detection, geolocation, reporting, characterization and mission impact assessment for US owned, operated or used space systems. RAIDRS capabilities, in support of the National Security Strategy of the United States, are procured and deployed in blocks. The first Block (RB-10) is focused on detecting, characterizing, geolocating and reporting satellite communications (SATCOM) radio frequency interference (RFI) using currently existing Commercial-Off-the-Shelf (COTS) and Government-Off-the-Shelf (GOTS) technology. The event information provided by RB-10 will allow operators to identify possible interference against space capabilities and enable rapid employment of protective responses.  This program is in Budget Activity 5, System Development and Demonstration, because it supports the engineering and manufacturing development of counterspace and space control systems.											
<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>	
MAJOR THRUST: Develop, integrate, test and field the Rapid Attack Identification Detection and Reporting System (RAIDRS).						21.138	25.816	11.875	0.000	11.875	
FY 2009 Accomplishments: In FY 2009: RAIDRS is a counterspace system designed to identify, characterize and locate interference to SATCOM communications capabilities. Includes architecture development, systems											

**UNCLASSIFIED**

R-1 Line Item #69

Page 10 of 23

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604421F: Counterspace Systems		PROJECT 65A003: Rapid Identification Detection and Reporting System (RAIDRS)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
engineering, program office support and test support. Continued system development, integration and test of the RAIDRS system.  FY 2010 Plans: In FY 2010: Continue system development, integration and factory acceptance testing of the RAIDRS system. Complete verification of technical orders.  FY 2011 Base Plans: In FY 2011: Complete system development and integration. Develop Type 1 training and prepare for Operational Test and Evaluation.  FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue concept definition, pre-acquisition architecture development and system development of Rapid Attack Identification Detection and Reporting System (RAIDRS) Block 20.  FY 2009 Accomplishments: FY 2009: Continued concept definition and pre-acquisition architecture work. Resulting solutions indicated a closer relationship of RAIDRS Block 20 to the new work being accomplished in the Joint Space Operations Center Mission Systems (JMS) program. Funding and content transferred to PE 0305614F, the JMS PE beginning in FY 2010.  FY 2010 Plans: FY 2010: Not applicable.  FY 2011 Base Plans: FY 2011: Not applicable.		6.146	0.000	0.000	0.000	0.000

**UNCLASSIFIED**

R-1 Line Item #69

Page 11 of 23

**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>		<b>PROJECT</b> 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>							
<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>			
<i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals				27.284	25.816	11.875	0.000	11.875			
<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 0604421F: <i>Counterspace Systems (OPAF)</i>	18.889	24.303	14.060	2.600	16.660	11.164	11.647	8.451	8.598	0.000	0.000
<b>D. Acquisition Strategy</b>											
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. System will be designed and acquired in Block increments using a Block Acquisition strategy.											
<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.											

**UNCLASSIFIED**

R-1 Line Item #69

Page 12 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>					
 <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>
Architecture Development & Systems Engineering	Various/ Various	Various Various	9.943	3.132	Nov 2009	1.448	Oct 2010	0.000		1.448	Continuing	Continuing	Continuing
RAIDRS Block 10 System Development	C/CPAF	Integral Systems Inc Columbia, MD	87.514	18.359	Oct 2009	6.075	Oct 2010	0.000		6.075	Continuing	Continuing	Continuing
RAIDRS Block 20 Requirements Development/Risk Reduction	Various/ Various	Various Various	17.906	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			115.363	21.491		7.523		0.000		7.523			
<b>Remarks</b>													
 <b>Support (\$ 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>
Program Office Support for RAIDRS	Various/ Various	SMC EI Segundo	17.220	4.250	Oct 2009	4.272	Oct 2010	0.000		4.272	Continuing	Continuing	Continuing
<b>Subtotal</b>			17.220	4.250		4.272		0.000		4.272			
<b>Remarks</b>													

**UNCLASSIFIED**

R-1 Line Item #69

Page 13 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>					
<b>Test and Evaluation (\$ 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>
RAIDRS Block 10 Test Support	Various/ Various	Various Various	0.400	0.075	Oct 2009	0.080	Oct 2010	0.000		0.080	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.400	0.075		0.080		0.000		0.080			
<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>			132.983	25.816		11.875		0.000		11.875			
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.													

**UNCLASSIFIED**

R-1 Line Item #69

Page 14 of 23

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

**R-1 ITEM NOMENCLATURE**

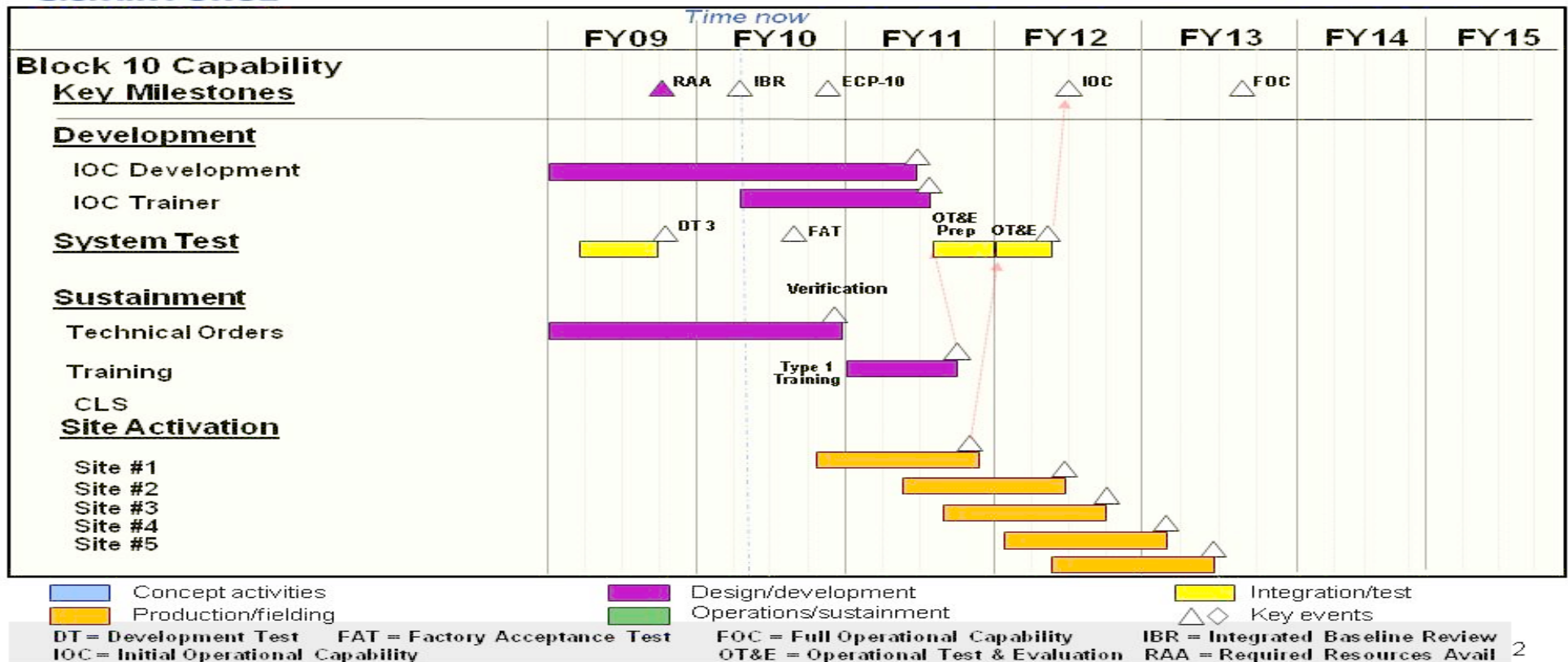
PE 0604421F: Counterspace Systems

**PROJECT**

65A003: Rapid Identification Detection and Reporting System (RAIDRS)



# Counterspace Systems RAIDRS Schedule



UNCLASSIFIED

R-1 Line Item #69

Page 15 of 23

# UNCLASSIFIED

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</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 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>	<b>PROJECT</b> 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>	

## Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
RAIDRS Block 10 Developmental Test 3	2	2009	3	2009
RAIDRS Block 10 Initial Development	1	2009	4	2011
RAIDRS Block 10 Operational Test and Evaluation	3	2011	3	2011
RAIDRS Block 10 Operator Training	3	2011	3	2011
Site #1 Preparation	4	2010	2	2011
Site #1 Activation	2	2011	4	2011
Site #2 Preparation	1	2011	3	2011
Site #2 Activation	3	2011	4	2011
Site #3 Preparation	3	2011	4	2011

# UNCLASSIFIED



**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A005: <i>Counterspace C2</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>
65A005: <i>Counterspace C2</i>	8.972	7.323	7.366	0.000	7.366	7.459	7.573	7.688	7.805	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

This effort supports the development of command and control and mission planning capabilities in support of the fielding and employment of Counterspace Systems. It provides for the integration and development of collaborative tools to link deployable counterspace systems with Joint Warfighting C2 systems and to enable integrated planning and execution of the counterspace mission. Developed capabilities will be integrated into current and future command and control systems. This program will also leverage the Joint Execution and Tasking System for Space (JETSS) efforts in support of space control and the counterspace mission areas.

This program is in Budget Activity 5, System Development and Demonstration, because it supports the engineering and manufacturing development of counterspace and space control 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>
<b>MAJOR THRUST:</b> Continue development of Counterspace mission planning and command and control capability. Begin tech refresh, JETSS Spiral 2 planning & JETSS Spiral 3.  <b>FY 2009 Accomplishments:</b> In FY 2009: Continued development of the Joint Execution and Tasking System for Space (JETSS).  <b>FY 2010 Plans:</b> In FY 2010: Completing JETSS Spiral 2 development, testing and delivery to the Joint Space Operations Center (JSpOC). Begin Spiral 3 Development.	7.473	7.323	7.366	0.000	7.366

**UNCLASSIFIED**

R-1 Line Item #69

Page 17 of 23

**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>		<b>PROJECT</b> 65A005: <i>Counterspace C2</i>		
<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>
<i>FY 2011 Base Plans:</i> In FY 2011: Continue JETSS Spiral 3 development to include Federated Query, future systems planning and backup servers.						
<i>FY 2011 OCO Plans:</i> In FY2011 OCO: Not applicable.						
Accomplishments/Planned Programs Subtotals		7.473	7.323	7.366	0.000	7.366
		<b>FY 2009</b>	<b>FY 2010</b>			
Congressional Add: Model, conduct "virtual testing," and analyze architectural options for the Rapid Attack Identification Detection and Reporting System.		1.499	0.000			
<i>FY 2009 Accomplishments:</i> In FY 2009: Model, conduct "virtual testing," and analyze architectural options for the Rapid Attack Identification Detection and Reporting System (RAIDRS) and for the Counter Satellite Communications System (CCS) Command and Control (C2) and operational data flows.						
<i>FY 2010 Plans:</i> In FY 2010: Not applicable.						
Congressional Adds Subtotals		1.499	0.000			

**UNCLASSIFIED**

R-1 Line Item #69

Page 18 of 23

**UNCLASSIFIED**

<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 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>			<b>PROJECT</b> 65A005: <i>Counterspace C2</i>																											
<p><b><u>C. Other Program Funding Summary (\$ in Millions)</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Line Item</u></th> <th style="text-align: right;"><u>FY 2009</u></th> <th style="text-align: right;"><u>FY 2010</u></th> <th style="text-align: right;"><u>FY 2011</u> <u>Base</u></th> <th style="text-align: right;"><u>FY 2011</u> <u>OCO</u></th> <th style="text-align: right;"><u>FY 2011</u> <u>Total</u></th> <th style="text-align: right;"><u>FY 2012</u></th> <th style="text-align: right;"><u>FY 2013</u></th> <th style="text-align: right;"><u>FY 2014</u></th> <th style="text-align: right;"><u>FY 2015</u></th> <th style="text-align: right;"><u>Cost To</u> <u>Complete</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>• PE Not Provided (12331): <i>None</i></td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> </tbody> </table> <p><b><u>D. Acquisition Strategy</u></b> All contracts will be awarded using competitive procedures to the maximum extent possible to acquire next generation capabilities through incremental acquisitions.</p> <p><b><u>E. Performance Metrics</u></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.</p>											<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	• PE Not Provided (12331): <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>																							
• PE Not Provided (12331): <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																							

**UNCLASSIFIED**

R-1 Line Item #69

Page 19 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010																																																																	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A005: <i>Counterspace C2</i>																																																																				
<p><b>Product Development (\$ in Millions)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method &amp; Type</th> <th rowspan="2">Performing Activity &amp; Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>C2 Modeling, "virtual test," and analysis</td> <td>MIPR</td> <td>Davidson Technology Huntsville, AL (Army Contract)</td> <td align="right">18.367</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td>Develop Counterspace Planning and C2 System (JETSS)</td> <td>C/CPAF</td> <td>General Dynamics Santa Clara, CA</td> <td align="right">14.189</td> <td align="right">4.913</td> <td>Jan 2010</td> <td align="right">5.007</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">5.007</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">32.556</td><td align="right">4.913</td><td></td><td align="right">5.007</td><td></td><td align="right">0.000</td><td></td><td align="right">5.007</td><td></td><td></td><td></td> </tr> </tbody> </table> <p><b>Remarks</b></p>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	C2 Modeling, "virtual test," and analysis	MIPR	Davidson Technology Huntsville, AL (Army Contract)	18.367	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing	Develop Counterspace Planning and C2 System (JETSS)	C/CPAF	General Dynamics Santa Clara, CA	14.189	4.913	Jan 2010	5.007	Jan 2011	0.000		5.007	Continuing	Continuing	Continuing	<b>Subtotal</b>			32.556	4.913		5.007		0.000		5.007			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																		
C2 Modeling, "virtual test," and analysis	MIPR	Davidson Technology Huntsville, AL (Army Contract)	18.367	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing																																																															
Develop Counterspace Planning and C2 System (JETSS)	C/CPAF	General Dynamics Santa Clara, CA	14.189	4.913	Jan 2010	5.007	Jan 2011	0.000		5.007	Continuing	Continuing	Continuing																																																															
<b>Subtotal</b>			32.556	4.913		5.007		0.000		5.007																																																																		
<p><b>Support (\$ in Millions)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method &amp; Type</th> <th rowspan="2">Performing Activity &amp; Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Counterspace Architecture Development</td> <td>C/CPFF</td> <td>Northrup Grumman Mission Systems Redondo Beach, CA</td> <td align="right">3.247</td> <td align="right">0.946</td> <td>Dec 2009</td> <td align="right">0.959</td> <td>Dec 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.959</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">3.247</td><td align="right">0.946</td><td></td><td align="right">0.959</td><td></td><td align="right">0.000</td><td></td><td align="right">0.959</td><td></td><td></td><td></td> </tr> </tbody> </table> <p><b>Remarks</b></p>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Counterspace Architecture Development	C/CPFF	Northrup Grumman Mission Systems Redondo Beach, CA	3.247	0.946	Dec 2009	0.959	Dec 2010	0.000		0.959	Continuing	Continuing	Continuing	<b>Subtotal</b>			3.247	0.946		0.959		0.000		0.959																	
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																		
Counterspace Architecture Development	C/CPFF	Northrup Grumman Mission Systems Redondo Beach, CA	3.247	0.946	Dec 2009	0.959	Dec 2010	0.000		0.959	Continuing	Continuing	Continuing																																																															
<b>Subtotal</b>			3.247	0.946		0.959		0.000		0.959																																																																		

**UNCLASSIFIED**

R-1 Line Item #69

Page 20 of 23

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>				<b>PROJECT</b> 65A005: <i>Counterspace C2</i>					
<b>Management Services (\$ 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>
Program Office and Other Technical Support	Various/ Various	SMC El Segundo, CA	3.340	1.464	Oct 2009	1.400	Oct 2010	0.000		1.400	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.340	1.464		1.400		0.000		1.400			
<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>			39.143	7.323		7.366		0.000		7.366			
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.													

**UNCLASSIFIED**

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

**R-1 ITEM NOMENCLATURE**

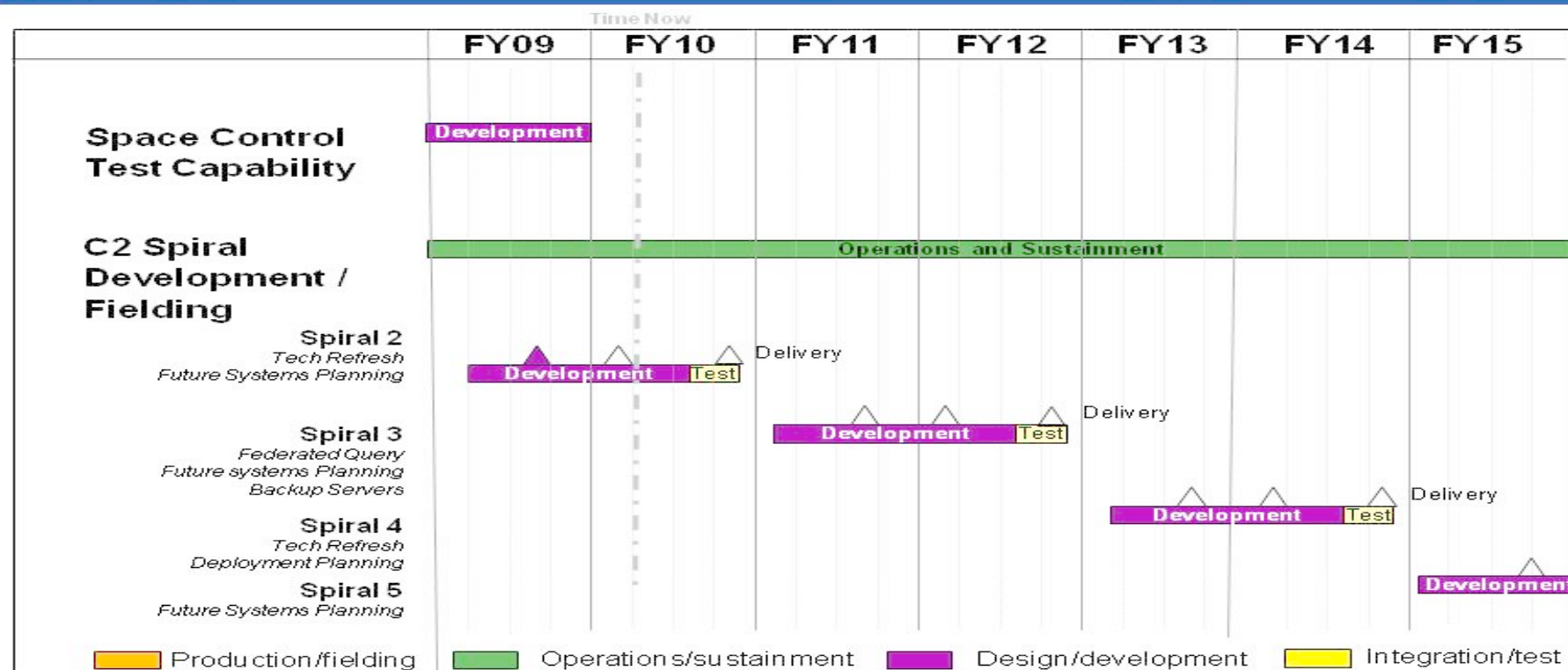
PE 0604421F: Counterspace Systems

**PROJECT**

65A005: Counterspace C2



# Counterspace Systems Counterspace C2 Schedule



3

UNCLASSIFIED

R-1 Line Item #69

Page 22 of 23

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</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 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604421F: <i>Counterspace Systems</i>	<b>PROJECT</b> 65A005: <i>Counterspace C2</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Modeling, "virtual test," analysis	2	2009	4	2009
Develop/test JETSS Spiral #2	2	2009	4	2010
C2 Spiral #2 Delivery	4	2010	4	2010
C2 Spiral #3 Development	1	2011	4	2011

**UNCLASSIFIED**