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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

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 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	60.141	40.276	31.913	-	31.913	30.579	31.072	31.198	31.622	Continuing	Continuing
65A001: <i>Counter Satellite Communications System</i>	29.320	21.035	19.463	-	19.463	18.171	18.362	18.251	18.460	Continuing	Continuing
65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>	24.009	11.875	5.016	-	5.016	4.868	5.057	5.180	5.259	Continuing	Continuing
65A005: <i>Offensive Counterspace (OCS) C2</i>	6.812	7.366	7.434	-	7.434	7.540	7.653	7.767	7.903	Continuing	Continuing

Note

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$2.099M in FY12.

A. Mission Description and Budget Item Justification

This program supports the conduct of critical planning, technology and capability 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 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>
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B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	64.248	40.276	34.119	-	34.119
Current President's Budget	60.141	40.276	31.913	-	31.913
Total Adjustments	-4.107	-	-2.206	-	-2.206
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.678	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-3.429	-			
• Other Adjustments	-	-	-2.206	-	-2.206

Change Summary Explanation

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$2.099M in FY12.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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			
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
65A001: Counter Satellite Communications System	29.320	21.035	19.463	-	19.463	18.171	18.362	18.251	18.460	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 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. 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.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: CCS Capability Upgrades							1.605	-	-	-	-
Description: Complete capability upgrades to the Block 10 Counter Communications System (CCS). Includes architecture development and program office support.											
FY 2010 Accomplishments: Completed work on the CCS plug-in upgrades. Continued mission area architecture development support.											
FY 2011 Plans:											
FY 2012 Base Plans:											
FY 2012 OCO Plans:											
Title: CCS Pre-planned Product Improvement (P3I)							17.748	12.260	11.517	-	11.517
Description: Develop, integrate, test and field the CCS Pre-planned Product Improvement (P3I) program. Includes architecture development, studies & analysis, and program office support.											
FY 2010 Accomplishments: Use prototype lessons-learned to begin development and integration of the first increment of the CCS P3I.											
FY 2011 Plans:											

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011			
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 Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continue development and integration of Increment 1 of the CCS P3I. FY 2012 Base Plans: Continue and complete development, integration and test of Increment 1 of the CCS P3I. FY 2012 OCO Plans:						
Title: Next generation prototype Description: Study options and perform risk reduction prototyping for the next generation advanced counter communications capability. FY 2010 Accomplishments: Study/refine and develop prototype risk reduction. FY 2011 Plans: FY 2012 Base Plans: FY 2012 OCO Plans:		1.000	-	-	-	-
Title: Architecture Development Support Description: Provide support for mission area architecture development. FY 2010 Accomplishments: Continued to provide mission area architecture development support. FY 2011 Plans: Continue to provide mission area architecture development support. FY 2012 Base Plans: Continue to provide mission area architecture development support. FY 2012 OCO Plans:		3.340	3.856	2.536	-	2.536
Title: Program Office and other Technical support Description: Provide technical/engineering and other required support to the Program Office. FY 2010 Accomplishments:		5.627	4.919	5.410	-	5.410

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>		PROJECT 65A001: <i>Counter Satellite Communications System</i>	

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Provide technical/engineering and other required support to the Program Office.					
<i>FY 2011 Plans:</i> Provide technical/engineering and other required support to the Program Office.					
<i>FY 2012 Base Plans:</i> Provide technical/engineering and other required support to the Program Office.					
<i>FY 2012 OCO Plans:</i>					
Accomplishments/Planned Programs Subtotals	29.320	21.035	19.463	-	19.463

<u>C. Other Program Funding Summary (\$ in Millions)</u>											
<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Other Procurement: <i>PE</i>	4.200	11.576	10.149	0.000	10.149	13.833	15.311	14.814	13.968	Continuing	Continuing
<i>0604421F Counterspace Systems</i>											

<u>D. Acquisition Strategy</u>
All contracts 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.

<u>E. Performance Metrics</u>
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force										DATE: February 2011			
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					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Architectural Engineering Support	C/CPAF	Aerospace:El Segundo, CA	31.078	3.856	Jan 2011	2.536	Jan 2012	-		2.536	Continuing	Continuing	TBD
Block 10 Capability Upgrades(a)	C/CPAF	General Dynamics:Santa Clara, CA	9.999	-		-		-		-	0.000	9.999	9.999
Block 10 Capability Upgrades(b)	Various	Harris Corp:Melbourne, FL	9.407	-		-		-		-	0.000	9.407	0.000
Block 20 Prototype Development & Future Capability Studies	C/CPAF	SERCO:Colorado Springs, CO	9.801	-		-		-		-	0.000	9.801	11.422
Block 10 P3I Development	C/CPAF	Harris Corp:Melbourne, FL	16.068	12.260	Dec 2010	11.517	Nov 2011	-		11.517	Continuing	Continuing	TBD
Block 10 P3I Development	Various	Various:Various,	1.680	-		-		-		-	0.000	1.680	0.000
Subtotal			78.033	16.116		14.053		-		14.053			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Program Office Support	Various	SMC:El Segundo, CA	1.849	2.201	Nov 2010	2.939	Nov 2011	-		2.939	Continuing	Continuing	TBD
Security	C/CPAF	Mantech:El Segundo, CA	2.411	2.718	Nov 2010	2.471	Nov 2011	-		2.471	0.000	7.600	0.000
Architectural Engineering Support	C/CPFF	Northrup Grumman:El Segundo, CA	1.367	-		-		-		-	0.000	1.367	0.000
Subtotal			5.627	4.919		5.410		-		5.410			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>				PROJECT 65A001: <i>Counter Satellite Communications System</i>					

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000

			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			83.660	21.035		19.463		-		19.463			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A001: <i>Counter Satellite Communications System</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A001: <i>Counter Satellite Communications System</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Block 10 P3I Contract Award	3	2010	3	2010
Block 10 P3I Increment 1 Development	3	2010	2	2012
Block 10 P3I Increment 1 DT/OT	2	2012	3	2012
Block 10 P3I Increment 1 Procurement - Retrofit	3	2012	1	2015
Block 10 P3I Increment 1 Deliveries	4	2012	1	2015
Block 10 P3I Increment 2 Contract Award	1	2013	1	2013
Block 10 P3I Increment 2 Development	1	2013	3	2014
Block 10 P3I Increment 2 DT/OT	4	2014	4	2014
Block 10 P3I Increment 2 Procurement - Retrofit	4	2014	3	2016
Block 10 P3I Increment 2 Deliveries	1	2015	4	2016
Block 10 P3I Increment 3 Contract Award	1	2015	1	2015
Block 10 P3I Increment 3 Development	1	2015	3	2016
Block 10 P3I Increment 3 DT/OT	3	2016	3	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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)			
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
65A003: Rapid Identification Detection and Reporting System (RAIDRS)	24.009	11.875	5.016	-	5.016	4.868	5.057	5.180	5.259	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note The program funding includes reductions for Knowledge Based Services, Acquisition Program Management Administrative efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.306M in FY12.											
A. Mission Description and Budget Item Justification 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. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: RAIDRS Description: Develop, integrate, test and field the Rapid Attack Identification Detection and Reporting System (RAIDRS). RAIDRS is a counterspace system designed to identify, characterize and locate interference to SATCOM communications capabilities. Includes architecture development, systems engineering, site activation and program office support and test support. FY 2010 Accomplishments: Continued system development, integration and factory acceptance testing of the RAIDRS system. Completed verification of technical orders. FY 2011 Plans: Complete system development and integration. Develop Type 1 training and prepare for and begin Operational Test and Evaluation. FY 2012 Base Plans:							24.009	11.875	5.016	-	5.016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011							
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>		PROJECT 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>							
B. Accomplishments/Planned Programs (\$ in Millions)											
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total						
Continue acceptance testing and Training system development. Will complete OT&E and deliver the FOC Trainer upgrade.											
<i>FY 2012 OCO Plans:</i>											
Accomplishments/Planned Programs Subtotals	24.009	11.875	5.016	-	5.016						
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• Other Procurement: <i>PE 0604421F Counterspace Systems</i>	24.103	14.025	9.169	0.000	9.169	7.597	3.195	3.987	5.079	Continuing	Continuing
D. Acquisition Strategy											
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.											
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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				PE 0604421F: Counterspace Systems				65A003: Rapid Identification Detection and Reporting System (RAIDRS)					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Architecture Development & Systems Engineering	Various	Various:Various,	16.370	1.639	Oct 2010	0.719	Oct 2011	-		0.719	Continuing	Continuing	TBD
RAIDRS Block 10 System Development	C/CPAF	Integral Systems Inc:Columbia, MD	87.317	4.607	Oct 2010	0.795	Oct 2011	-		0.795	Continuing	Continuing	TBD
RAIDRS Block 10 Training System	C/CPFF	Sonalysts:Waterford, CT	2.604	3.725	Oct 2010	1.862	Oct 2011	-		1.862	Continuing	Continuing	TBD
Subtotal			106.291	9.971		3.376		-		3.376			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Support for RAIDRS	Various	SMC:El Segundo, CA	11.733	1.190	Oct 2010	0.995	Oct 2011	-		0.995	Continuing	Continuing	TBD
FFRDC	RO	Aerospace Corp:El Segundo, CA	10.808	0.714	Oct 2010	0.565	Oct 2011	-		0.565	0.000	12.087	0.000
Subtotal			22.541	1.904		1.560		-		1.560			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RAIDRS Block 10 Test Support	Various	Various:Various,	0.843	-	Oct 2010	0.080	Oct 2011	-		0.080	Continuing	Continuing	TBD
Subtotal			0.843	-		0.080		-		0.080			
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000

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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)				
		Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		129.675	11.875		5.016		-		5.016			

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A003: <i>Rapid Identification Detection and Reporting System (RAIDRS)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
RAIDRS IOC	4	2012	4	2012
RAIDRS FOC	4	2013	4	2013
RAIDRS Operational Test and Evaluation	3	2011	4	2012
RAIDRS Operator Training	3	2011	1	2012
Site #1 Activation	1	2011	2	2012
Site #2 Activation	2	2011	3	2012
Site #3 Activation	3	2011	4	2012
Site #4 Activation	4	2011	2	2013
Site #5 Activation	1	2012	4	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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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
65A005: Offensive Counterspace (OCS) C2	6.812	7.366	7.434	-	7.434	7.540	7.653	7.767	7.903	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 Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Joint Execution and Tasking System for Space (JETSS)							6.812	7.366	7.434	-	7.434
Description: Develop a Counterspace mission planning and command and control capability to support counterspace systems space control warfighter activities.											
FY 2010 Accomplishments: Completed JETSS Spiral 2 development, testing and delivery to the Joint Space Operations Center (JSpOC).											
FY 2011 Plans: Continue JETSS development with Spiral 3 Future System Planning, Deployment Planner and the Data Wizard.											
FY 2012 Base Plans: Complete development of JETSS Spiral 3 and deploy at the Joint Space Operations Center.											
FY 2012 OCO Plans: Not applicable.											
Accomplishments/Planned Programs Subtotals							6.812	7.366	7.434	-	7.434

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A005: <i>Offensive Counterspace (OCS) C2</i>	

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

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• N/A: <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

All contracts will be awarded using competitive procedures to the maximum extent possible to acquire next generation capabilities through incremental acquisitions.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011			
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: Offensive Counterspace (OCS) C2						
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Develop Counterspace Planning and C2 System (JETSS)	C/CPAF	General Dynamics:Santa Clara, CA	19.032	4.769	Jan 2011	4.850	Jan 2012	-		4.850	Continuing	Continuing	TBD	
Subtotal			19.032	4.769		4.850		-		4.850				
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Counterspace Architecture Development	C/CPFF	Northrup Grumman Mission Systems:Redondo Beach, CA	3.978	0.954	Dec 2010	0.966	Dec 2010	-		0.966	Continuing	Continuing	TBD	
Subtotal			3.978	0.954		0.966		-		0.966				
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Office and Other Technical Support	Various	SMC:El Segundo, CA	4.578	1.643	Oct 2010	1.618	Oct 2011	-		1.618	Continuing	Continuing	TBD	
Subtotal			4.578	1.643		1.618		-		1.618				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force								DATE: February 2011						
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: Offensive Counterspace (OCS) C2						
				Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals				27.588	7.366		7.434		-		7.434			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A005: <i>Offensive Counterspace (OCS) C2</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604421F: <i>Counterspace Systems</i>	PROJECT 65A005: <i>Offensive Counterspace (OCS) C2</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
C2 Spiral #2 Delivery	4	2010	4	2010
C2 Spiral #3 Development	1	2011	3	2012
C2 Spiral #3 Test	3	2012	4	2012
C2 Spiral #3 Delivery	4	2012	4	2012
C2 Spiral #4 Development	1	2013	3	2014
C2 Spiral #4 Test	3	2014	4	2014
C2 Spiral #4 Delivery	4	2014	4	2014
C2 Spiral #5 Development	1	2015	2	2016
C2 Spiral #5 Test	2	2016	4	2016
C2 Spiral #5 Delivery	4	2016	4	2016

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