

## UNCLASSIFIED

PE NUMBER: 0604421F  
PE TITLE: Counterspace Systems

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

## BUDGET ACTIVITY

## 05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

## 0604421F Counterspace Systems

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	70.729	26.053	24.651	30.503	30.690	75.005	76.745	78.027	Continuing	TBD
A001 Counter Satellite Communications System	13.094	6.140	6.372	6.640	6.815	7.042	7.211	7.316	Continuing	TBD
A002 Counter Surveillance Reconnaissance System	49.479	0.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49.694
A003 Rapid Identification Detection and Reporting System (RAIDRS)	8.156	16.224	18.279	23.863	23.875	67.963	69.534	70.711	Continuing	TBD
A005 Offensive Counterspace (OCS) C2	0.000	3.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.474

(U) **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 phases of the acquisition process: concept development, risk reduction, design, demonstration, and production. 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.

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.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	81.629	75.863	27.753	32.746
(U) Current PBR/President's Budget	70.729	26.053	24.651	30.503
(U) Total Adjustments	-10.900	-49.810		
(U) Congressional Program Reductions		-53.310		
Congressional Rescissions				
Congressional Increases		3.500		
Reprogrammings	-9.427			
SBIR/STTR Transfer	-1.473			

(U) **Significant Program Changes:**

R-1 Shopping List - Item No. 75-2 of 75-20

Exhibit R-2 (PE 0604421F)

Exhibit R-2, RDT&E Budget Item Justification		DATE <b>February 2005</b>
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604421F Counterspace Systems</b>	
<p>FY 2005: -\$53.000, Counter Surveillance Reconnaissance System (CSRS) not funded by Congress</p> <p>FY 2005: \$3.500 Congressional Add for OCS C2 (Space Control Test Capability)</p> <p>FY 2006: -\$4.971 CSRS deletion; Rapid Attack Identification and Reporting System (RAIDRS) transferred \$1.737 of its OPAF funding to RDT&amp;E to meet redefined program requirements</p> <p>FY 2007: -\$14.156 CSRS deletion; RAIDRS transferred \$11.546 of its OPAF funding to RDT&amp;E to meet redefined program requirements.</p>		

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604421F Counterspace Systems			PROJECT NUMBER AND TITLE A001 Counter Satellite Communications System		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
A001 Counter Satellite Communications System	13.094	6.140	6.372	6.640	6.815	7.042	7.211	7.316	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

This effort supports concept exploration and follow-on system development of mobile/transportable counter satellite communications capabilities and associated command and control, derived from technologies examined in PE 0603438F, Space Control Technology, in the area of Offensive Counter Space. It includes 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.

## Budget Activity Justification:

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.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Completed development, integration, test, and fielding of a lightweight, transportable Counter Satellite Communications System	11.494			
(U) Continue Capability Upgrades		4.650	2.000	2.000
(U) Begin to develop, integrate, test and field the next Block (Block 20) advanced counter communications capability			2.799	3.013
(U) Program Office and other Technical Support	1.550	1.440	1.573	1.577
(U) Developmental Test/Operational Test (DT/OT) support	0.050	0.050	0.000	0.050
(U) Total Cost	13.094	6.140	6.372	6.640

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) None										

(U) **D. Acquisition Strategy**

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.

## UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005			
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604421F Counterspace Systems					PROJECT NUMBER AND TITLE A001 Counter Satellite Communications System				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
(U) Product Development															
Initial System Development & Future Capability Studies	MAPIC CPAF	Northrop Grumman, Redondo Beach, CA	9.424	11.494	Nov-03								20.918	20.918	
Capability Upgrades	CPAF	Harris Corp, Melbourne, FL				4.650	Nov-04	2.000	Nov-05	2.000	Nov-06	Continuing	TBD	TBD	
Block 20 Capability Development & Future Capability Studies	TBD	TBD						2.799	Nov-05	3.013	Nov-06	Continuing	TBD	TBD	
Subtotal Product Development			9.424	11.494		4.650		4.799		5.013		Continuing	TBD	TBD	
Remarks:															
(U) Support															
System Program Office Support & Architecture Engineering	Various	SMC, El Segundo, CA	1.190	1.550	Oct-03	1.440	Oct-04	1.573	Oct-05	1.577	Oct-06	Continuing	TBD	TBD	
Subtotal Support			1.190	1.550		1.440		1.573		1.577		Continuing	TBD	TBD	
Remarks:															
(U) Test & Evaluation															
DT/OT	MIPR	AFOTEC, Albuquerque, NM	0.050	0.050	Oct-03	0.050	Nov-04	0.000		0.050	Nov-06	Continuing	TBD	TBD	
Subtotal Test & Evaluation			0.050	0.050		0.050		0.000		0.050		Continuing	TBD	TBD	
Remarks:															
(U) Management															
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	TBD	
Remarks:															
(U) Total Cost			10.664	13.094		6.140		6.372		6.640		Continuing	TBD	TBD	

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

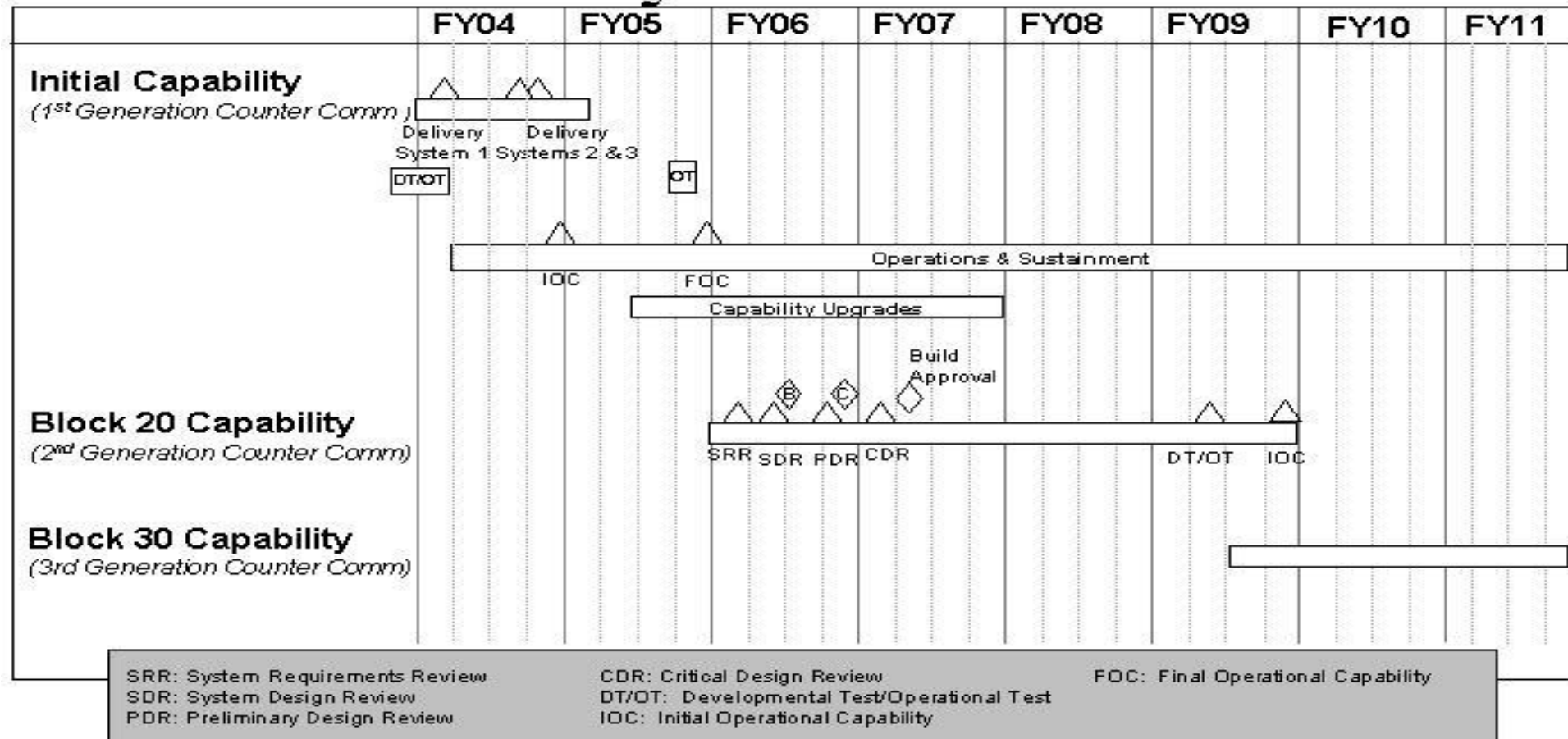
PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A001 Counter Satellite  
Communications System

# Counter Communications System Schedule



## UNCLASSIFIED

## Exhibit R-4a, RDT&amp;E Schedule Detail

DATE

February 2005

BUDGET ACTIVITY

**05 System Development and Demonstration (SDD)**

PE NUMBER AND TITLE

**0604421F Counterspace Systems**

PROJECT NUMBER AND TITLE

**A001 Counter Satellite  
Communications System****(U) Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) 1st System Delivery

1Q

(U) 1st System Development/Operational Test

1Q

(U) System 2 &amp; 3 Delivery

3-4Q

(U) Initial Operational Capability (IOC)

4Q

(U) Operational Testing

3-4Q

(U) Final Operational Capability (FOC)

4Q

(U) Capability Upgrades

2-4Q

1-4Q

1-4Q

(U) Block 20 SRR

1Q

(U) Block 20 SDR

2Q

(U) Block 20 Key Decision Point (KDP B)

3Q

(U) Block 20 PDR

4Q

(U) Block 20 Key Decision Point (KDP C)

4Q

(U) Block 20 CDR

1Q

(U) Block 20 Key Decison Point (Build Approval)

2Q

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604421F Counterspace Systems			PROJECT NUMBER AND TITLE A002 Counter Surveillance Reconnaissance System		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
A002 Counter Surveillance Reconnaissance System	49.479	0.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49.694
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY 2005: Congress did not authorize or appropriate funds to continue CSRS development

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

This effort supported concept exploration and follow-on system development of a mobile/transportable counter space based surveillance reconnaissance capability and associated command and control derived from technologies examined in PE 0603438F, Space Control Technology. It included system hardware design and development, software design and integration, and testing and procurement to provide a capability to counter space based imagery systems in response to USSTRATCOM requirements.

CSRS funding/program ended after FY 2004 activity. Congress did not fund the FY 2005 program request for CSRS; however, due to rounding, \$215K remained in this project number. The AF is using these funds to continue development of a Command and Control (C2) capability that is no longer needed for CSRS, but is still needed for the Counter Satellite Communications System (CCS), the remaining Offensive Counterspace capability in this Program Element.

## Budget Activity Justification

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.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Completed efforts that were preparing for engineering and manufacturing development of a Counter Surveillance & Reconnaissance System, and associated command and control.	32.164			
(U) Continue developing associated Offensive Counterspace (OCS) command and control (C2) capabilities separate from CSRS in support of the Counter Satellite Communications System (CCS)		0.215		
(U) Completed specific technology and risk reduction development for the Counter Surveillance & Reconnaissance System.	11.400			
(U) Completed development and implementation of modeling and simulation codes specific to Counter Surveillance & Reconnaissance threats. Included vulnerability analysis of these threats.	2.300			
(U) Completed support to Component Field Testing	1.300			
(U) Program Office and Other Technical Support	2.315			
(U) Total Cost	49.479	0.215	0.000	0.000

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A002 Counter Surveillance  
Reconnaissance System(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	

(U) None

(U) D. Acquisition Strategy

N/A



## UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604421F Counterspace Systems					PROJECT NUMBER AND TITLE A002 Counter Surveillance Reconnaissance System			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development System Development	MAPIC CPAF	Northrop Grumman, Redondo Beach, CA	13.509	32.164	Nov-03								45.673	48.798
CCS C2 Development	MAPIC CPAF	Northrop Grumman, Redondo Beach, CA				0.215	Mar-05						0.215	
Technology & Risk Reduction	Various	AFRL, Albuquerque, NM	5.080	13.700	Nov-03								18.780	
Subtotal Product Development Remarks:			18.589	45.864		0.215		0.000		0.000		0.000	64.668	48.798
(U) Support Program Office Support for CSRS	Various	SMC, El Segundo, CA	0.775	0.840	Nov-03								1.615	
Independent Program Assessment	TBD	TBD		0.500									0.500	
Program Office Support for CSRS	MIPR	AFRL, Albuquerque, NM	0.591	0.975	Nov-03								1.566	
Subtotal Support Remarks:			1.366	2.315		0.000		0.000		0.000		0.000	3.681	0.000
(U) Test & Evaluation AFRL	MIPR		0.500	1.300									1.800	
Subtotal Test & Evaluation Remarks:			0.500	1.300		0.000		0.000		0.000		0.000	1.800	0.000
(U) Management Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) Total Cost			20.455	49.479		0.215		0.000		0.000		0.000	70.149	48.798
Project A002														
R-1 Shopping List - Item No. 75-10 of 75-20														
Exhibit R-3 (PE 0604421F)														

Project A002

R-1 Shopping List - Item No. 75-10 of 75-20

Exhibit R-3 (PE 0604421F)

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

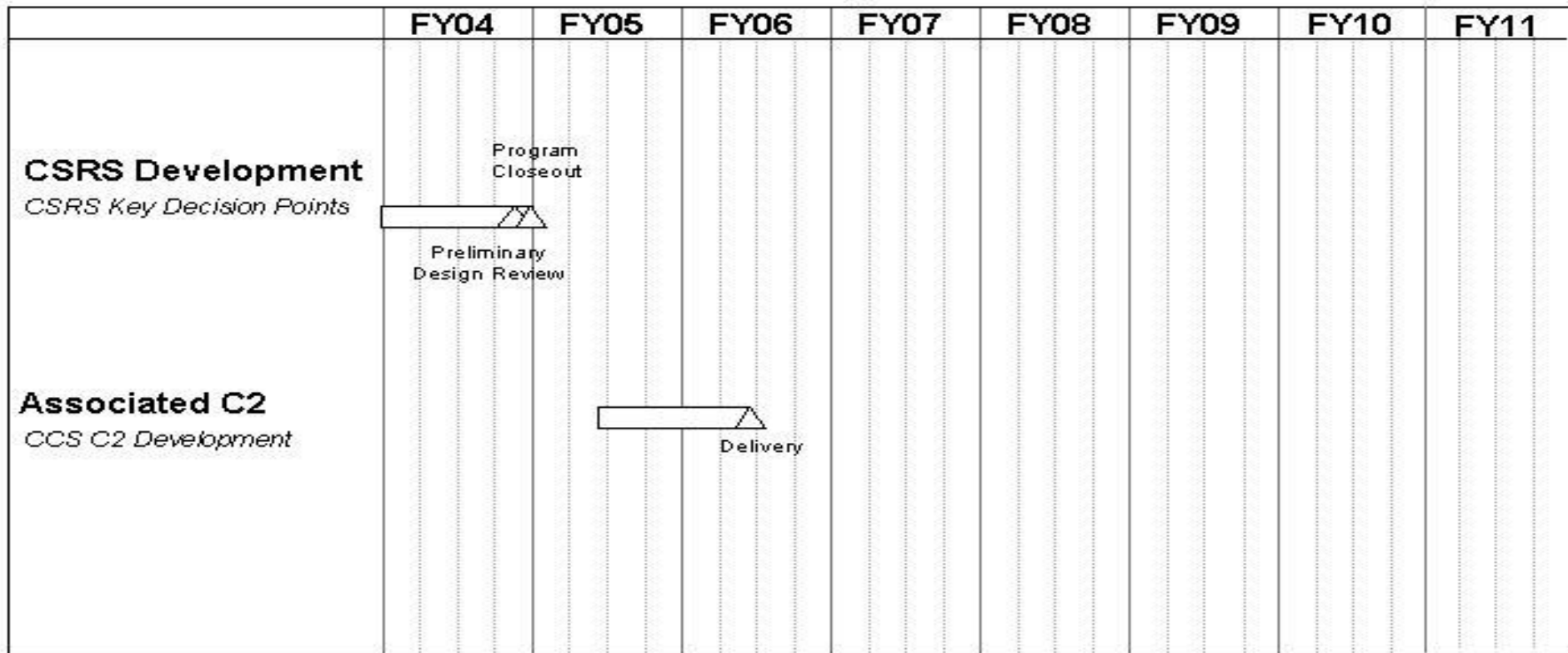
PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A002 Counter Surveillance  
Reconnaissance System

# Counter Surveillance & Reconnaissance System Schedule



## UNCLASSIFIED

## Exhibit R-4a, RDT&amp;E Schedule Detail

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A002 Counter Surveillance  
Reconnaissance System(U) **Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) Preliminary Design Review

4Q

(U) Program Closeout

4Q

(U) CCS C2 Development

3-4Q

1-2Q

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604421F Counterspace Systems

## PROJECT NUMBER AND TITLE

A003 Rapid Identification Detection and Reporting System (RAIDRS)

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
A003 Rapid Identification Detection and Reporting System (RAIDRS)	8.156	16.224	18.279	23.863	23.875	67.963	69.534	70.711	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

This effort supports mission area architecture development, concept exploration, and engineering and manufacturing development to provide attack warning, threat identification and characterization, and rapid mission impact assessments of U.S. space systems. This effort will investigate and implement the technical architecture, operational concept, support concept, training, verification (test), and deployment of a Rapid Attack Identification Detection and Reporting System (RAIDRS). Incremental capability deliveries are planned.

## Budget Activity Justification

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.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue concept definition, pre-acquisition architecture development and system development of Rapid Attack Identification Detection and Reporting System (RAIDRS) Spiral 1.	5.690	12.824	14.679	15.113
(U) Continue concept definition, pre-acquisition architecture development and system development of Rapid Attack Identification Detection and Reporting System (RAIDRS) Spiral 2.	1.662	2.000	2.000	7.100
(U) Program Office and Other Technical Support	0.804	1.400	1.600	1.650
(U) Total Cost	8.156	16.224	18.279	23.863

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

	<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) OPAF (PE 0604421F), Counterspace Systems				17.131	17.463	25.768	26.505	27.010	Continuing	TBD

(U) **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 using a Spiral Acquisition strategy.

## UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604421F Counterspace Systems					PROJECT NUMBER AND TITLE A003 Rapid Identification Detection and Reporting System (RAIDRS)			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>														
Architecture Development & Systems Engineering	Various	Various	4.230	5.690	Dec-03	4.499	Oct-04	0.600	Nov-05	0.600	Nov-06	Continuing	TBD	TBD
RAIDRS Spiral 1 System Development	TBD	TBD				8.325	Mar-05	14.079	Jan-06	14.513	Jan-07	Continuing	TBD	TBD
RAIDRS Spiral 2 Concept Development	CPAF	Northrop Grumman Mission Systems, Redondo Beach, CA	1.125	1.662	Dec-03	2.000	Jan-05	2.000	Jan-06			0.000	6.787	TBD
RAIDRS Spiral 2 Risk Reduction	TBD	TBD								7.100	Jan-07	Continuing	TBD	
Subtotal Product Development			5.355	7.352		14.824		16.679		22.213		Continuing	TBD	TBD
Remarks:														
(U) <u>Support</u>														
Program Office Support for RAIDRS	Various	SMC, El Segundo	0.603	0.804	Oct-03	1.400	Oct-04	1.600	Oct-05	1.650	Oct-06	Continuing	TBD	TBD
Subtotal Support			0.603	0.804		1.400		1.600		1.650		Continuing	TBD	TBD
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) <u>Management</u>														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			5.958	8.156		16.224		18.279		23.863		Continuing	TBD	TBD

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

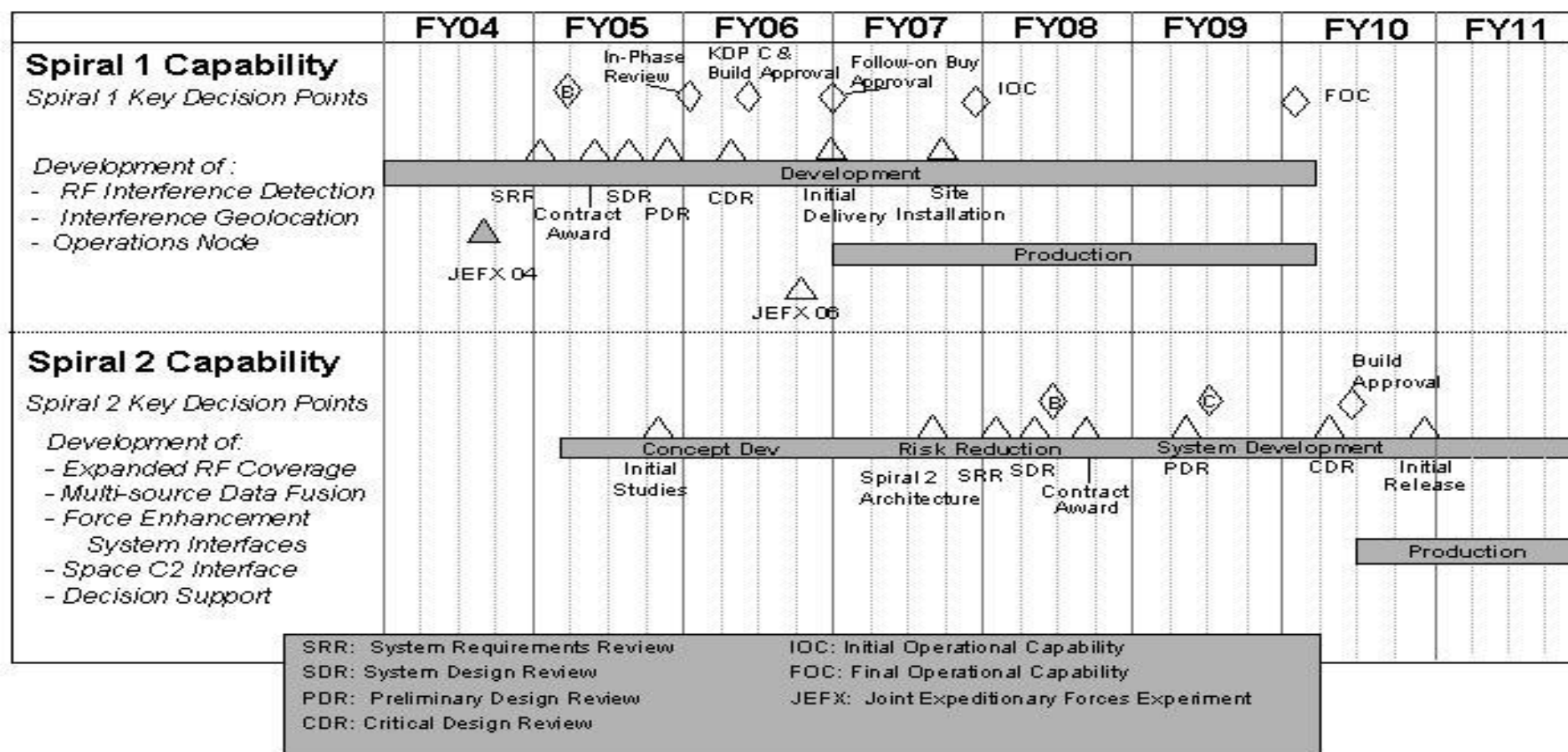
PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A003 Rapid Identification Detection and Reporting System (RAIDRS)

# RAIDRS Schedule



## UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail			DATE	
			February 2005	
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)	0604421F Counterspace Systems	A003 Rapid Identification Detection and Reporting System (RAIDRS)		
(U) <b>Schedule Profile</b>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Attack reporting solutions and architecture studies	2-4Q			
(U) Begin development of Attack Warning architecture (PE0603438F)	1Q			
(U) Attack Warning concept definition (Proof-of Concept Experiment) JEFX 04	3Q			
(U) Attack Warning architecture defined		1Q		
(U) RAIDRS Spiral 1 Key Decision Point (KDP B)		1Q		
(U) System Development and Demonstration Contract Award		2Q		
(U) RAIDRS Spiral 1 System Design Review		3Q		
(U) RAIDRS Spiral 1 Preliminary Design Review		4Q		
(U) RAIDRS Spiral 2 Initial Studies Complete		4Q		
(U) RAIDRS Spiral 1 In-Phase Review			1Q	
(U) RAIDRS Spiral 1 Critical Design Review			2Q	
(U) RAIDRS Spiral 1 Key Decsion Point (KDP C & Build Approval)			2Q	
(U) Attack Warning concept evolution (JEFX-06)			4Q	
(U) RAIDRS Spiral 1 Initial Delivery			4Q	
(U) RAIDRS Spiral 1 Key Decision Point (Follow-on Buy Approval)			4Q	
(U) RAIDRS Spiral 1 Site Installation				3Q
(U) RAIDRS Spiral 2 Architecture Defined				3Q
(U) RAIDRS Spiral 1 IOC				4Q

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604421F Counterspace Systems

## PROJECT NUMBER AND TITLE

A005 Offensive Counterspace (OCS)  
C2

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
A005 Offensive Counterspace (OCS) C2	0.000	3.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.474
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY05: Congressional add: \$3.5M

(U) **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 Offensive Counterspace (OCS) Systems. It provides for the integration and development of collaborative tools to link deployable OCS systems with Joint Warfighting C2 systems and to enable integrated planning and execution of the OCS mission. This effort also supports development of Defensive Counterspace (DCS) C2 related capabilities.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**FY 2004FY 2005FY 2006FY 2007

(U) 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.

3.474

(U)

(U)

(U) Total Cost

0.000

3.474

0.000

0.000

(U) **C. Other Program Funding Summary (\$ in Millions)**FY 2004FY 2005FY 2006FY 2007FY 2008FY 2009FY 2010FY 2011Cost toTotal CostActualEstimateEstimateEstimateEstimateEstimateEstimateEstimateComplete

(U) None

(U) **D. Acquisition Strategy**

FY 2005 efforts will be performed using the Army's existing Space Control Test Capability contracts.



## UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604421F Counterspace Systems					PROJECT NUMBER AND TITLE A005 Offensive Counterspace (OCS) C2			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> C2 Modeling, "virtual test," and analysis	MIPR	Davidson Technology, Huntsville, AL	0.000	0.000		3.474	Mar-05						3.474	
Subtotal Product Development Remarks:			0.000	0.000		3.474		0.000		0.000		0.000	3.474	0.000
(U) <u>Support</u> Subtotal Support Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Test &amp; Evaluation</u> Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Management</u> Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) Total Cost			0.000	0.000		3.474		0.000		0.000		0.000	3.474	0.000

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A005 Offensive Counterspace (OCS)  
C2

# Offensive Counterspace Command and Control (OCS/C2) Schedule

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
<b>Initial Analysis</b> <i>(Support to RAIDRS and CCS)</i>		<div>Modeling, "virtual test," analysis</div>						

## UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail		DATE <b>February 2005</b>	
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604421F Counterspace Systems</b>	PROJECT NUMBER AND TITLE <b>A005 Offensive Counterspace (OCS) C2</b>	
(U) <b><u>Schedule Profile</u></b>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
(U) Modeling, "virtual test," analysis		2-4Q	<u>FY 2007</u>
<div>Project A005</div> <div>R-1 Shopping List - Item No. 75-20 of 75-20</div> <div>Exhibit R-4a (PE 0604421F)</div>			