Program 65A024, RAIDRS Block 20 content and funding were transferred to PE 0305614F, Joint Space Operations Center (JSpOC) Mission Systems effective in FY 2010.

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

- **FY 2008:** -$0.500M transferred to higher priority Air Force programs
- **FY 2009:** +$1.600M Congressional addition for Space Control Test Capability
- **FY 2010:** RAIDRS Block 20 transferred to PE 0305614F, JSpOC Mission Systems
**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 Counter Space. 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 Program ($ in Millions)**

- **Continue Block 10 Capability Upgrades** 1.621 8.202 0.800
- **Study/refine, develop, prototype risk reduction, integrate, test and field the next Block (Block 20) advanced counter communications capability** 7.930 11.486 20.340
- **Architecture Development Support** 2.045 2.805 2.830
- **Program Office and other Technical Support, to include technical support, studies, systems engineering and integration** 4.018 7.169 7.139

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

- **Total Cost** 15.614 29.662 31.109

**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.
## Exhibit R-3, RDT&E Project Cost Analysis

**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 Categories

<table>
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<tr>
<th>(U) Cost Categories</th>
<th>Contract Method &amp; Type</th>
<th>Performing Activity &amp; Location</th>
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### Remarks:
- Support
- Subtotal Support | TBD | 9.948 | 4.018 | 7.169 | 7.139 | Continuing | TBD | TBD |

### Test & Evaluation
- CCS Block 10 Test Support | Various | SMC, El Segundo, CA | 0.100 | 0.000 | 1.535 | Nov-08 | Continuing | TBD | TBD |
- Subtotal Test & Evaluation | TBD | 0.100 | 0.000 | 1.535 | 0.000 | Continuing | TBD | TBD |

### Management
- Subtotal Management | TBD | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD | TBD |
- Total Cost | 43.978 | 15.614 | 29.662 | 31.109 | Continuing | TBD | TBD |

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R-1 Line Item No. 72

Page 4 of 14

Exhibit R-3 (PE 0604421F)
### Counterspace Systems CCS Schedule

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**Key Events**
- ATP: Authority to Proceed
- CDR: Critical Design Review
- DT/OT: Developmental Test/Operational Test
- P3I: Pre-planned Product Improvement
- PDR: Preliminary Design Review
- SDR: System Design Review
- SRR: System Requirements Review

**Legend**
- Blue: Concept activities
- Orange: Production/fielding
- Purple: Design/development
- Green: Operation/sustainment
- Yellow: Integration/test
- Key events

---

Project A001

R-1 Line Item No. 72

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Exhibit R-4 (PE 0604421F)

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

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

**PE NUMBER AND TITLE**
0604421F Counterspace Systems

**PROJECT NUMBER AND TITLE**
A001 Counter Satellite Communications System

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</table>
**A. Mission Description and Budget Item Justification**

This effort supports mission area architecture development, concept exploration, and engineering and manufacturing development to provide attack detection, threat identification and characterization, and support 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.

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)**

- Continue concept definition, pre-acquisition architecture development and system development of Rapid Attack Identification Detection and Reporting System (RAIDRS) Block 20: FY 2008 10.632, FY 2009 8.527, FY 2010 0.000
- RAIDRS Block 10 Test Support: FY 2008 0.030, FY 2009 0.111, FY 2010 0.100
- Program Office and other Technical Support, to include technical support, studies, systems engineering and integration: FY 2008 3.637, FY 2009 4.788, FY 2010 3.392

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


**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.
### Exhibit R-3, RDT&E Project Cost Analysis

**May 2009**

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<th>R-1 Line Item No. 72</th>
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#### 05 System Development and Demonstration (SDD)

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<th>Contract Method &amp; Type</th>
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<th>FY 2008 Cost</th>
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<th>FY 2010 Award Date</th>
<th>Cost to Complete</th>
<th>Total Cost</th>
<th>Target Value of Contract</th>
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**Product Development**

- RAIDRS Block 10 System Development
  - CPAF
  - Integral Systems Inc., Lanham, MD
  - Total Cost: 55.449
  - FY 2007 Award Date: Oct-07
  - FY 2008 Award Date: Oct-08
  - FY 2009 Award Date: Nov-09
  - FY 2010 Award Date: TBD

- RAIDRS Block 20 Requirements
  - Development/Risk Reduction
  - Total Cost: 1.128
  - FY 2008 Award Date: Aug-08
  - FY 2009 Award Date: Nov-08
  - FY 2010 Award Date: TBD

- Subtotal Product Development: 62.916

**Support**

- Program Office Support for RAIDRS
  - SMC, El Segundo
  - Total Cost: 8.821
  - FY 2007 Award Date: Oct-07
  - FY 2008 Award Date: Oct-08
  - FY 2009 Award Date: Oct-09
  - FY 2010 Award Date: TBD

**Test & Evaluation**

- RAIDRS Block 10 Test Support
  - Total Cost: 0.111
  - FY 2008 Award Date: Apr-08
  - FY 2009 Award Date: Nov-09
  - FY 2010 Award Date: TBD

**Management**

- Subtotal Management: 0.000

- Total Cost: 71.737

### Remarks:

- Architecture Development & Systems Engineering: TBD
- RAIDRS Block 10 System Development: TBD
- RAIDRS Block 20 Requirements: TBD
- Subtotal Product Development: TBD
- Program Office Support for RAIDRS: TBD
- Test & Evaluation: TBD
- Management: TBD

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<th>Total Cost</th>
<th>Target Value of Contract</th>
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RAIDRS Schedule

### FY08

**Block 10 Capability**
- **Key Decision Points**: Development/production of
  - Fixed interference sensors (2)
  - Fixed geolocation sensors (3)
  - Deployable interference/geolocation sensors (3)
  - Operations node (COI)
  - Training System (1)

### FY09

**Block 20 Capability**
- **Key Decision Points**: Development of:
  - Expanded coverage
  - Multi-source data fusion
  - Force enhancement system interfaces
  - Space C2 interface
  - Decision support

### FY10

- Software Development
- Integration/Test
- Build
- Operations

- FY10 - Content moved to new PE 0305614F, JSpOC Mission Systems

- Prototyping

- Software V2 Delivery
- IOC

### FY11

- CDR: Critical Design Review
- KDP: Key Decision Point
- SRR: System Requirements Review
- FOC: Final Operational Capability
- IOC: Initial Operational Capability
- FOR: Preliminary Design Review
- SDR: System Design Review

---

**FY10 OSD/OMB Budget Hearing**

R-1 Line Item No. 72
Page-9 of 14
## Exhibit R-4a, RDT&E Schedule Detail

**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)

### FY 2008

- **(U) Schedule Profile**
  - RAIDRS Block 10 Initial Delivery
  - RAIDRS Block 10 Initial Operational Capability

### FY 2009

### FY 2010

3Q
UNITED STATES GOVERNMENT

EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION

DEPARTMENT OF DEFENSE

DO NOT REPRODUCE

UNCLASSIFIED

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604421F Counterspace Systems

PROJECT NUMBER AND TITLE

A005 Counterspace C2

Cost ($ in Millions)

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| A005 Counterspace C2 | 10.073 | 9.021 | 7.323 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD |

Quantity of RDT&E Articles

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(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 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.

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

FY 2008 | FY 2009 | FY 2010
---|---|---
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. | 3.720 | 1.600 | 0.000
Continue development of Counterspace mission planning and command and control capability (JETSS) | 4.392 | 5.561 | 5.358
Counterspace C2 Architecture Development | 0.817 | 0.924 | 0.954
Program Office and other Technical Support, to include technical support, studies, systems engineering and integration | 1.144 | 0.936 | 1.011
Total Cost | 10.073 | 9.021 | 7.323

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

---|---|---|---|---|---|---|---|---|---
Actual | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Estimated Cost | Total Cost

| None |

(U) D. Acquisition Strategy

All contracts will be awarded using competitive procedures to the maximum extent possible to acquire next generation capabilities through incremental acquisitions.
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Counterspace C2 Schedule

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Space Control Test Capability

Counterspace C2 Spiral Development / Fielding

- **Spiral 1**
  - Planning Tools
  - Theater Interoperability
  - MCS Backup Servers

- **Spiral 2**
  - Tech Refresh/PL2
  - Future Systems Planning
  - Backup Servers

- **Spiral 3**
  - Federated Query
  - Future Systems Planning

- **Spiral 4**

FY10 OSD/OMB Budget Hearing
### Exhibit R-4a, RDT&E Schedule Detail

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

**PE NUMBER AND TITLE**
0604421F Counterspace Systems

**PROJECT NUMBER AND TITLE**
A005 Counterspace C2

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**DATE**
May 2009