Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force

R-1 ITEM NOMENCLATURE

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

PE 0604421F: Counterspace Systems

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

| , | | | | | | | | | | | |
|--|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| Total Program Element | 37.994 | 31.578 | 28.797 | - | 28.797 | 23.930 | 24.187 | 26.676 | - | Continuing | Continuing |
| 65A001: Counter Satellite Communications System | 20.045 | 19.128 | 16.362 | - | 16.362 | 16.277 | 16.373 | 16.728 | - | Continuing | Continuing |
| 65A003: Rapid Identification Detection and Reporting System (RAIDRS) | 11.044 | 5.016 | 4.877 | - | 4.877 | - | - | - | - | Continuing | Continuing |
| 65A005: Offensive Counterspace (OCS) C2 | 6.905 | 7.434 | 7.558 | - | 7.558 | 7.653 | 7.814 | 9.948 | - | Continuing | Continuing |

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 is conducting demonstration, engineering and manufacturing development tasks aimed at meeting validated counterspace and space control requirements.

PE 0604421F: Counterspace Systems Air Force

R-1 Line #66

DATE: February 2012

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

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

PE 0604421F: Counterspace Systems

BA 5: Development & Demonstration (SDD)

| B. Program Change Summary (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 40.276 | 31.913 | 30.579 | - | 30.579 |
| Current President's Budget | 37.994 | 31.578 | 28.797 | - | 28.797 |
| Total Adjustments | -2.282 | -0.335 | -1.782 | - | -1.782 |
| Congressional General Reductions | - | - | | | |
| Congressional Directed Reductions | - | - | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | - | -0.335 | | | |
| SBIR/STTR Transfer | -1.885 | - | | | |
| Other Adjustments | -0.397 | - | -1.782 | - | -1.782 |

Change Summary Explanation

FY11: -1.885M reduction for Small Business Innovative Research (SBIR) FY13: -\$1.782M reallocation of funding to higher Department priorities.

Air Force

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| Exhibit R-2A, RDT&E Project Justification. PB 2013 All Police | | | | | | | | | DATE. Feb | uary 2012 | |
|---|--|---------|-----------------|----------------|------------------|---------|---------|----------|-----------|---------------------|------------|
| 3600: Research, Development, Te | PROPRIATION/BUDGET ACTIVITY 10: Research, Development, Test & Evaluation, Air Force 5: Development & Demonstration (SDD) R-1 ITEM NOMENCLATURE PE 0604421F: Counterspace Systems 65A001: Counter Satellite Communication System | | | | | | | ications | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 65A001: Counter Satellite Communications System | 20.045 | 19.128 | 16.362 | - | 16.362 | 16.277 | 16.373 | 16.728 | - | Continuing | Continuing |

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A. Mission Description and Budget Item Justification

Quantity of RDT&E Articles

Exhibit P 24 PDT8 E Project Justification: DR 2013 Air Force

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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 is conducting demonstration, engineering and manufacturing development tasks aimed at meeting validated counterspace and space control requirements.

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| Title: Counter Communications System (CCS) Pre-planned Product Improvement (P3I) | 20.045 | 19.128 | 16.362 |
| Description: Develop, integrate, test and field the CCS Pre-planned Product Improvement (P3I) program. Includes architecture development, studies & analysis, and program office support. | | | |
| FY 2011 Accomplishments: Completed Critical Design Review and began integration and test effort for CCS P3I Increment 1. | | | |
| FY 2012 Plans: Complete integration and test of Increment 1 of the CCS P3I. Develop the Increment 1 trainer. Begin concept activities for the development of Increment 2. | | | |
| FY 2013 Plans: Continue with the CCS P3I. Deliver the Increment 1 Trainer and begin development of the Increment 2 capability. | | | |
| Accomplishments/Planned Programs Subtotals | 20.045 | 19.128 | 16.362 |
| | · | | |

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

| | | | FY 2013 | FY 2013 | FY 2013 | | | | | Cost To | |
|-----------------------------------|---------|---------|-------------|---------|--------------|---------|---------|---------|---------|----------------|-------------------|
| <u>Line Item</u> | FY 2011 | FY 2012 | Base | OCO | <u>Total</u> | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete | Total Cost |
| • P-48: <i>OPAF, PE 0604421F,</i> | 6.795 | 9.885 | 13.506 | 0.000 | 13.506 | 13.602 | 13.210 | 12.392 | 0.000 | 0.000 | 70.226 |
| Counterspace Systems | | | | | | | | | | | |

PE 0604421F: Counterspace Systems

Air Force

R-1 Line #66

DATE: February 2012

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force | | DATE: February 2012 |
|--|-----------------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT |
| 3600: Research, Development, Test & Evaluation, Air Force | PE 0604421F: Counterspace Systems | 65A001: Counter Satellite Communications |
| BA 5: Development & Demonstration (SDD) | | System |
| | | |

D. Acquisition Strategy

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.

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 | ıg to Air |
|---|-----------|
| Force performance goals and most importantly, how they contribute to our mission. | |

| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force | DATE: February 2012 | | | | |
|---|---|--------|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD) | search, Development, Test & Evaluation, Air Force PE 0604421F: Counterspace Systems | | | | |
| | | System | | | |
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604421F: Counterspace Systems 65A001: Counter Satellite Communications

BA 5: Development & Demonstration (SDD)

System

Schedule Details

| | St | art | Eı | nd |
|--|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| Block 10 P3I Increment 1 Critical Design Review | 2 | 2011 | 2 | 2011 |
| Block 10 P3I Increment 1 Developmental Test/Operational Test (DT/OT) | 2 | 2012 | 3 | 2012 |
| Block 10 P3I Increment 1 Procurement - Retrofit | 3 | 2012 | 1 | 2015 |
| Block 10 P3I Increment 1 Deliveries | 3 | 2012 | 1 | 2015 |
| Block 10 P3I Increment 2 Contract Award | 2 | 2013 | 2 | 2013 |
| Block 10 P3I Increment 2 Development | 2 | 2013 | 4 | 2014 |
| Block 10 P3I Increment 2 DT/OT | 1 | 2015 | 2 | 2015 |
| Block 10 P3I Increment 2 Procurement - Retrofit | 2 | 2015 | 2 | 2017 |
| Block 10 P3I Increment 2 Deliveries | 2 | 2015 | 2 | 2017 |
| 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 | 4 | 2016 | 4 | 2016 |

PE 0604421F: Counterspace Systems

Air Force

| Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force | | | | | | | | | DATE: Febr | ruary 2012 | |
|--|--|---------|-----------------|----------------|--|---|---|---|------------|---------------------|------------|
| APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Test BA 5: Development & Demonstration | , Test & Evaluation, Air Force PE 0604421F: Counterspace Systems | | | | PROJECT 65A003: Rapid Identification Detection and Reporting System (RAIDRS) | | | | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | | | | | FY 2017 | Cost To Complete | Total Cost |
| 65A003: Rapid Identification Detection and Reporting System (RAIDRS) | 11.044 | 5.016 | 4.877 | - | 4.877 | - | - | - | - | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

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 support the National Security Strategy of the United States. RAIDRS 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 RAIDRS 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 has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements in preparation for deployment.

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| Title: RAIDRS | 11.044 | 5.016 | 4.877 |
| 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 2011 Accomplishments: Completed system development and integration. Developed Type 1 training and prepared for Operational Test and Evaluation (OT&E). | | | |
| FY 2012 Plans: Continue acceptance testing and Training system development. Will complete Operational Test & Evaluation (OT&E) and deliver the Full Operational Capability (FOC) Trainer. | | | |
| FY 2013 Plans: Complete Full Operational Capability trainer acceptance testing. | | | |
| Accomplishments/Planned Programs Subtotals | 11.044 | 5.016 | 4.877 |

PE 0604421F: Counterspace Systems Air Force

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force | DATE: February 2012 | | |
|--|-----------------------------------|-------------|-----------------------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 3600: Research, Development, Test & Evaluation, Air Force | PE 0604421F: Counterspace Systems | 65A003: Ra | apid Identification Detection and |
| BA 5: Development & Demonstration (SDD) | | Reporting S | System (RAIDRS) |

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

| | | | FY 2013 | FY 2013 | FY 2013 | | | | | Cost To | |
|----------------------------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|----------------|-------------------|
| Line Item | FY 2011 | FY 2012 | Base | OCO | Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete | Total Cost |
| • P-48: <i>OPAF, PE 0604421F</i> | 18.739 | 9.433 | 6.055 | 0.000 | 6.055 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 33.459 |
| Counterspace Systems | | | | | | | | | | | |

D. Acquisition Strategy

All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

PE 0604421F: Counterspace Systems Air Force

Page 8 of 14

| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force | | DATE: February 2012 | | | |
|---|---|--|--|--|--|
| 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) | | | |
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force

APPROPRIATION/BUDGET ACTIVITY

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

ATE: February 2012

R-1 ITEM NOMENCLATURE
PE 0604421F: Counterspace Systems
Reporting System (RAIDRS)

Schedule Details

| | S | tart | Er | ıd |
|--|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| RAIDRS IOC | 4 | 2012 | 4 | 2012 |
| RAIDRS FOC | 4 | 2013 | 4 | 2013 |
| RAIDRS Operational Test and Evaluation Prep and Test | 2 | 2011 | 3 | 2012 |
| RAIDRS Tech Order Verification | 3 | 2011 | 3 | 2011 |
| RAIDRS Operator Training | 4 | 2011 | 1 | 2012 |
| Site #1 Activation | 1 | 2011 | 2 | 2012 |
| Site #2 Activation | 2 | 2011 | 3 | 2012 |
| Site #3 Activation | 3 | 2011 | 1 | 2013 |
| Site #4 Activation | 4 | 2011 | 1 | 2013 |
| Site #5 Activation | 2 | 2012 | 2 | 2013 |

PE 0604421F: Counterspace Systems Air Force

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| Exhibit R-2A, RDT&E Project Justif | ication: PB 2013 Air Fo | orce | | | | | DATE: February 2012 | | |
|---|-------------------------|---------|-----------|------------------|--------------|---|----------------------------|--|--|
| APPROPRIATION/BUDGET ACTIVITY | | | | OMENCLATURE | TURE PROJECT | | | | |
| 3600: Research, Development, Test & Evaluation, Air Force | | | PE 060442 | 1F: Counterspace | Systems | 65A005: Offensive Counterspace (OCS) C2 | | | |
| BA 5: Development & Demonstration (SDD) | | | | | | | | | |
| 0007 (0 : 14:11:) | | FY 2013 | FY 2013 | FY 2013 | | | Cost To | | |

| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
|---|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| 65A005: Offensive Counterspace (OCS) C2 | 6.905 | 7.434 | 7.558 | - | 7.558 | 7.653 | 7.814 | 9.948 | - | 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 leverage the Joint Execution and Tasking System for Space (JETSS) effort in the development of C2 for future space control and counterspace mission capabilities. 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 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| Title: Joint Execution and Tasking System for Space (JETSS) | 6.905 | 7.434 | 7.558 |
| Description: Develop a Counterspace mission planning and command and control capability to support counterspace systems space control warfighter activities. | | | |
| FY 2011 Accomplishments: Completed JETSS Spiral 3 Data Wizard development, testing and delivery to the Joint Space Operations Center (JSPOC). | | | |
| FY 2012 Plans: Complete development of JETSS Spiral 3 Future System Planning, Deployment Planner, Federated Query and Continuity of Operations (COOP) Development and deployment to the Joint Space Operations Center. | | | |
| FY 2013 Plans: Continue JETSS development with Spiral 4 future system planning development and deployment to the JSPOC. | | | |
| Accomplishments/Planned Programs Subtotals | 6.905 | 7.434 | 7.558 |
| | | | |

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

| | | | FY 2013 | FY 2013 | FY 2013 | | | | | Cost To | |
|------------------|---------|---------|-------------|------------|--------------|---------|---------|---------|---------|-----------------|-------------------|
| <u>Line Item</u> | FY 2011 | FY 2012 | Base | <u>000</u> | <u>Total</u> | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete | Total Cost |
| • None: N/A | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |

PE 0604421F: Counterspace Systems Air Force

UNCLASSIFIED

| Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force | | DATE: February 2012 |
|---|---|--|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT |
| 3600: Research, Development, Test & Evaluation, Air Force | PE 0604421F: Counterspace Systems | 65A005: Offensive Counterspace (OCS) C2 |
| BA 5: Development & Demonstration (SDD) | | |
| D. Acquisition Strategy | | |
| All contracts will be awarded using competitive procedures to the | maximum extent possible to acquire next generati | ion capabilities through incremental acquisitions. |
| E. Performance Metrics | | |
| Please refer to the Performance Base Budget Overview Book for | information on how Air Force resources are applie | ed and how those resources are contributing to Air |
| Force performance goals and most importantly, how they contribu | | 9 |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force | | DATE: February 2012 | | | | |
|---|-----------------------------------|---|--|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | | | | |
| 3600: Research, Development, Test & Evaluation, Air Force | PE 0604421F: Counterspace Systems | 65A005: Offensive Counterspace (OCS) C2 | | | | |
| BA 5: Development & Demonstration (SDD) | | | | | | |
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force

APPROPRIATION/BUDGET ACTIVITY

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

ARTE: February 2012

R-1 ITEM NOMENCLATURE
PE 0604421F: Counterspace Systems
65A005: Offensive Counterspace (OCS) C2

Schedule Details

| | St | art | En | d |
|--------------------------|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| 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 | 3 | 2016 |
| C2 Spiral #5 Test | 3 | 2016 | 4 | 2016 |
| C2 Spiral #5 Delivery | 4 | 2016 | 4 | 2016 |

PE 0604421F: Counterspace Systems Air Force

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