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| Exhibit R-2, RDT&E Budget Item Justification | DATE February 2007 |
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| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604857F Operationally Responsive Space |
|---|--|

| Cost (\$ in Millions) | FY 2006 Actual | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total |
|------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|
| Total Program Element (PE) Cost | 0.000 | 35.411 | 87.032 | 111.657 | 52.791 | 52.710 | 52.579 | 52.499 | Continuing | TBD |
| A015 Tactical Satellites | 0.000 | 0.101 | 85.215 | 111.252 | 52.791 | 52.710 | 52.579 | 52.499 | Continuing | TBD |
| A016 Operationally Responsive Lift | 0.000 | 35.310 | 1.817 | 0.405 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD |

In FY 2007, this was a new PE. The funding was transferred from PE 0604855F, Operationally Responsive Launch. This new PE recognizes the broader scope of not just responsive launchers, but also satellites, and command and control necessary for a responsive space system.

In FY 2007, the Tactical Satellite (TacSat) effort in Project 64A015 was a new start to meet some of the requirements of the Operationally Responsive Space Analysis of Alternatives.

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

The successful integration of space-based capabilities into the core of U.S. national security operations has resulted in an increased reliance on and demand for those capabilities. As a result, U.S. Strategic Command identified three needs: to rapidly augment existing space capabilities when needed to expand operational capability; to rapidly reconstitute/replenish critical space capabilities to preserve operational capability; to rapidly exploit and infuse space technological or operational innovations to increase U.S. advantage. Operationally Responsive Space (ORS) is designed to both improve the responsiveness of existing space capabilities (e.g., space, launch, and ground segments) and to develop complementary, affordable small satellite/launch vehicle combinations, and associated ground and command and control systems, that can be deployed in operationally relevant timeframes.

The ORS goals are 1) Connect space to the user--make space capabilities more relevant to Joint Force Commanders and more adaptable to future joint force needs. 2) Respond to urgent needs--deliver effects to joint warfare in response to an urgent or previously unanticipated need. 3) Reduce development/deployment time and cost--complement existing space capabilities with an element focused on increased value and timely delivery. 4) Capitalize on emerging/innovative capabilities--adopt new capabilities from advanced technologies and innovative operational concepts.

The Tactical Satellite (TacSat) Demonstration Program will consist of a series of small satellite demonstrations, whose goal is to demonstrate affordable and responsive launch, checkout, and theater integration of systems to support the tactical needs of the Combatant Commanders. TacSat demonstrations will validate common interfaces, subsystems, new payloads, and new concepts of operations. Follow-on development of operational satellites will leverage lessons learned, processes and mature technology demonstrated in the TacSat program. Funding will support developmental launch costs to include booster, ground support, and other related activities in support of TacSat demonstrations.

This program is Budget Activity 4, Advanced Component Development and Prototypes, because it involves evaluating integrated technologies in as realistic an operating environment as possible to assess the performance or cost reduction potential of advanced technology.

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BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604857F Operationally Responsive Space

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

| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--------------------------------------|----------------|----------------|----------------|----------------|
| (U) Previous President's Budget | 0.000 | 35.625 | 41.663 | 75.720 |
| (U) Current PBR/President's Budget | 0.000 | 35.411 | 87.032 | 111.657 |
| (U) Total Adjustments | 0.000 | -0.214 | | |
| (U) Congressional Program Reductions | | -0.080 | | |
| Congressional Rescissions | | -0.134 | | |
| Congressional Increases | | | | |
| Reprogrammings | | | | |
| SBIR/STTR Transfer | | | | |

(U) **Significant Program Changes:**

FY08: Deleted Affordable Reusable Spacelift (ARES) and Falcon Program Small Launch Vehicle development funding; added funding for TacSat demos
 FY09: Deleted ARES and Falcon Program Small Launch Vehicle development funding, added funding for TacSat demos

Exhibit R-2a, RDT&E Project Justification

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|--|-------------------|---------------------|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|-------|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | | | | | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | | | PROJECT NUMBER AND TITLE A015 Tactical Satellites | | |
| Cost (\$ in Millions) | FY 2006 Actual | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total |
| A015 Tactical Satellites | 0.000 | 0.101 | 85.215 | 111.252 | 52.791 | 52.710 | 52.579 | 52.499 | Continuing | TBD |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

(U) A. Mission Description and Budget Item Justification

The successful integration of space-based capabilities into the core of U.S. national security operations has resulted in an increased reliance on and demand for those capabilities. As a result, U.S. Strategic Command identified three needs: to rapidly augment existing space capabilities when needed to expand operational capability; to rapidly reconstitute/replenish critical space capabilities to preserve operational capability; to rapidly exploit and infuse space technological or operational innovations to increase U.S. advantage. Operationally Responsive Space (ORS) is designed to both improve the responsiveness of existing space capabilities (e.g., space, launch, and ground segments) and to develop complementary, affordable small satellite/launch vehicle combinations, and associated ground and command and control systems, that can be deployed in operationally relevant timeframes.

ORS will provide a broad range of capabilities directly supporting warfighter needs. Potential missions include communications, data exfiltration, blue-force situational awareness, positioning, navigation and timing, weather, and battlefield intelligence, surveillance and reconnaissance.

A July 2004 Air Force Requirements for Operational Capabilities Council (AFROCC) memorandum directed 1) Leverage lessons learned from AF-DARPA Falcon demo, and 2) Conduct Architecture Studies -- Responsive spacecraft: size and functions study, -- Integration and technology needs.

Tactical satellites (TacSats) will be optimized for prioritized theater use and/or surge, augmentation and replenishment of more traditional space capabilities. Current Concepts of Operation (CONOPS) call for the production of satellites featuring high degrees of modularity and the use of plug and play payloads and buses. Responsive satellites will be capable of rapid satellite initialization and be networked with other national security space, air and surface systems.

The TacSat Demonstration Program with participation from the Air Force Research Lab (AFRL), Naval Research Lab, the Army's Space and Missile Development Center, and Air Force Space Command is the principal testbed for proving out the technologies required to develop and field future Operationally Responsive Space/Spacecraft capabilities. This effort will perform analysis, costing, and utility assessment of TacSat concepts and requirements.

The TacSat Demonstration Program will consist of a series of small satellite demonstrations, whose goal is to demonstrate affordable and responsive launch, checkout, and theater integration of systems to support the tactical needs of the Combatant Commanders. The first of these, AFRL's TacSat-2, was successfully launched on December 16, 2006. TacSat demonstrations will validate common interfaces, subsystems, new payloads, and new CONOPS. Follow-on development of operational satellites will leverage lessons learned, processes and mature technology demonstrated in the TacSat program. Funding will support developmental launch costs to include booster, ground support, and other related activities in support of TacSat demonstrations.

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Exhibit R-2a, RDT&E Project Justification

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|--|---|---|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | PROJECT NUMBER AND TITLE A015 Tactical Satellites |
|--|---|---|

| (U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|---|----------------|----------------|----------------|----------------|
| (U) Perform analysis, costing and assess utility for operationally responsive satellite concepts/requirements & program support | | 0.101 | 4.300 | 4.400 |
| (U) TacSat-4 launch vehicle, range operations, and related launch support | | | 18.215 | 5.500 |
| (U) TacSat-5&6 launch vehicle, range operations, and related launch support | | | | 24.200 |
| (U) Operational TacSat Block I | | | 21.600 | 19.000 |
| (U) Operational launch vehicle multi-vehicle buy | | | 34.000 | 51.000 |
| (U) Operational capability development and integration | | | 3.500 | 3.500 |
| (U) Develop processing, dissemination and command and control capabilities to include software development, demonstrations, and modeling and simulation test beds | | | 3.600 | 3.652 |
| (U) Total Cost | 0.000 | 0.101 | 85.215 | 111.252 |

| (U) <u>C. Other Program Funding Summary (\$ in Millions)</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>FY 2012</u> | <u>FY 2013</u> | <u>Cost to</u> | <u>Total Cost</u> |
|---|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| | <u>Actual</u> | <u>Estimate</u> | <u>Complete</u> | |
| (U) AF RDT&E, PE 0604855F, ORL (R-59) | 20.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 20.137 |
| (U) Defensewide RDT&E, PE 0605799D8Z, Force Transformation (R-140) | 39.000 | 25.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD |

(U) **D. Acquisition Strategy**
 Use existing government contracts such as the Rocket Systems Launch Program's Orbital/Suborbital Program contract or AFRL Indefinite Delivery/Indefinite Quantity contracts.

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Exhibit R-3, RDT&E Project Cost Analysis

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| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | PROJECT NUMBER AND TITLE A015 Tactical Satellites |
|---|--|--|

| (U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions) | <u>Contract Method & Type</u> | <u>Performing Activity & Location</u> | <u>Total Prior to FY 2006 Cost</u> | <u>FY 2006 Cost</u> | <u>FY 2006 Award Date</u> | <u>FY 2007 Cost</u> | <u>FY 2007 Award Date</u> | <u>FY 2008 Cost</u> | <u>FY 2008 Award Date</u> | <u>FY 2009 Cost</u> | <u>FY 2009 Award Date</u> | <u>Cost to Complete</u> | <u>Total Cost</u> | <u>Target Value of Contract</u> |
|--|-----------------------------------|---|------------------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|-------------------------|-------------------|---------------------------------|
| (U) <u>Product Development</u> | | | | | | | | | | | | | | |
| Operational TacSat Block I | TBD | TBD | | | | | | 21.600 | Dec-07 | 19.000 | Oct-08 | Continuing | TBD | TBD |
| Operational launch vehicle multi-vehicle buy | TBD | Space Dev & Test Wing, Albq, NM | | | | | | 34.000 | Dec-07 | 51.000 | Oct-08 | Continuing | TBD | TBD |
| Operational capability development and integration | TBD | TBD | | | | | | 3.500 | Dec-07 | 3.500 | Oct-08 | Continuing | TBD | TBD |
| Ground processing, dissemination and command and control | TBD | TBD | | | | | | 3.600 | Dec-07 | 3.652 | Oct-08 | Continuing | TBD | TBD |
| Subtotal Product Development | | | 0.000 | 0.000 | | 0.000 | | 62.700 | | 77.152 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| (U) <u>Support</u> | | | | | | | | | | | | | | |
| Subtotal Support | | | 0.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.000 |
| Remarks: | | | | | | | | | | | | | | |
| (U) <u>Test & Evaluation</u> | | | | | | | | | | | | | | |
| TacSat-4 Launch Vehicle and Operations | C-FPI | Orbital, Chandler AZ | | | | | | 18.215 | Oct-07 | 5.500 | Oct-08 | 0.000 | 23.715 | 26.100 |
| TacSat-5&6 Launch Vehicles and Operations | TBD | Space Dev & Test Wing, Albq, NM | | | | | | | | 24.200 | Dec-08 | Continuing | TBD | TBD |
| Subtotal Test & Evaluation | | | 0.000 | 0.000 | | 0.000 | | 18.215 | | 29.700 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| (U) <u>Management</u> | | | | | | | | | | | | | | |
| Perform analysis and assess alternative concepts/requirements & program support | various | various | | | | 0.101 | Dec-06 | 4.300 | Oct-07 | 4.400 | Oct-08 | Continuing | TBD | TBD |
| Subtotal Management | | | 0.000 | 0.000 | | 0.101 | | 4.300 | | 4.400 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| (U) | | | | | | | | | | | | | | |
| Subtotal | | | 0.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.000 |
| Remarks: | | | | | | | | | | | | | | |
| (U) Total Cost | | | 0.000 | 0.000 | | 0.101 | | 85.215 | | 111.252 | | Continuing | TBD | TBD |

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

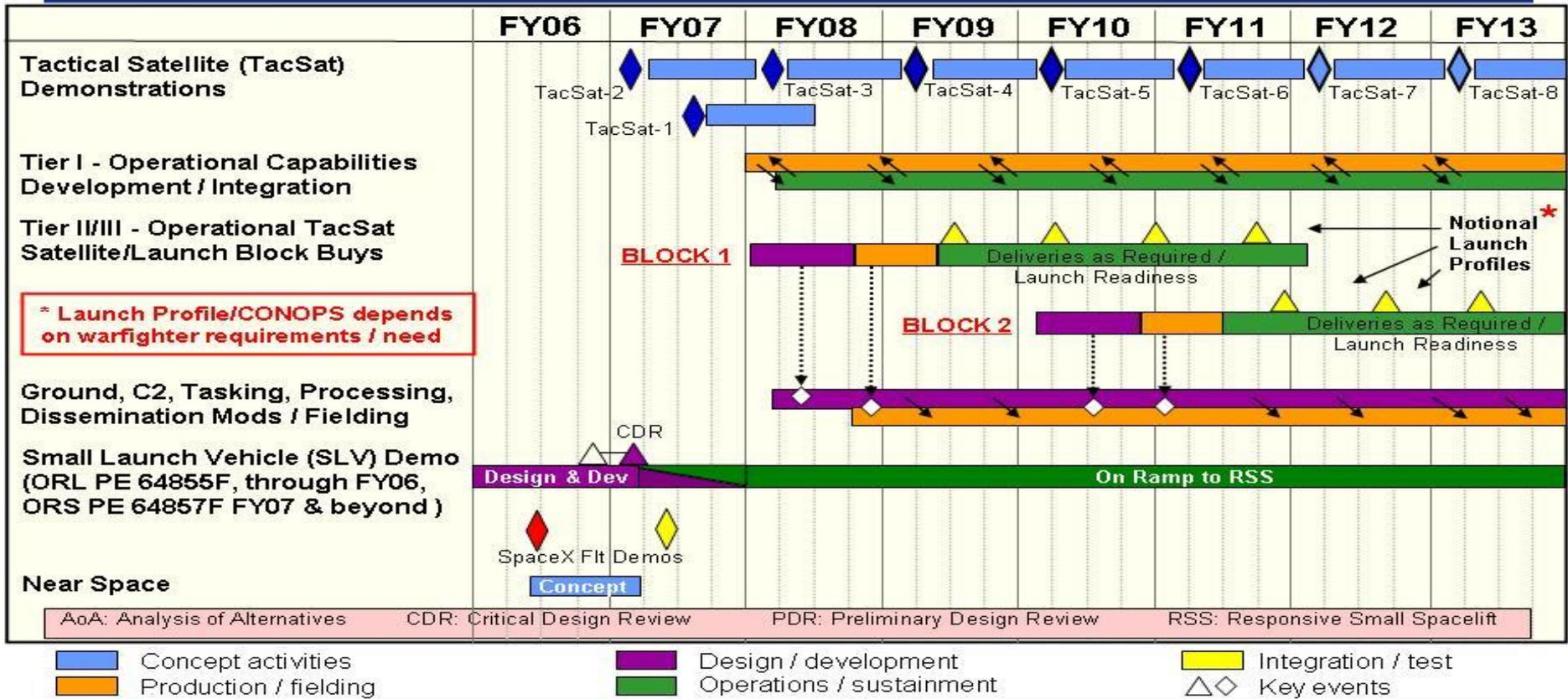
PE NUMBER AND TITLE
0604857F Operationally Responsive Space

PROJECT NUMBER AND TITLE
A015 Tactical Satellites



Unclassified

ORS Schedule



* Launch Profile/CONOPS depends on warfighter requirements / need

Unclassified

Exhibit R-4a, RDT&E Schedule Detail

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BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604857F Operationally Responsive Space

PROJECT NUMBER AND TITLE

A015 Tactical Satellites

(U) Schedule Profile

(U) Tactical Satellite (TacSat)-2 Launch

(U) Space-X Falcon-1 Demo Flight #2

(U) TacSat-1 Launch

(U) TacSat-3 Launch

(U) Operational TacSat Development begins

(U) ORS Ground, Command and Control development begins

(U) TacSat-4 Launch

(U) Operational TacSat Block I Delivery #1

FY 2006

FY 2007

FY 2008

FY 2009

1Q

2Q

3Q

1Q

1Q

1Q

1Q

3Q

Exhibit R-2a, RDT&E Project Justification

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|--|-------------------|---------------------|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|-------|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | | | | | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | | | PROJECT NUMBER AND TITLE A016 Operationally Responsive Lift | | |
| Cost (\$ in Millions) | FY 2006 Actual | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total |
| A016 Operationally Responsive Lift | 0.000 | 35.310 | 1.817 | 0.405 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

(U) A. Mission Description and Budget Item Justification

The Operationally Responsive Space (ORS) program is the rapid reaction combination of payloads, launch systems, and ranges; optimized to provide surge operations, reconstitution capability, and exploitation of new technologies. This encompasses the spacelift missions of delivering payloads to, or from, mission orbit and changing the orbit of existing systems to better satisfy new mission requirements.

In December 2002 the DepSecDef directed the Air Force and the Defense Advanced Research Projects Agency (DARPA) to establish a joint program office to accelerate the ORS effort to meet portions of this requirement. This joint technology development program is focused on the development and transition of more mature technologies into a future weapon system capable of delivering and deploying payloads worldwide from and through space such as tactical satellites (TacSats). Concept development, risk reduction and technology maturation are key elements of the Small Launch Vehicle (SLV) portion of this effort. The ongoing SLV Phase II will include the initial launches of one or more technology demonstrations.

A July 2004 Air Force Requirements for Operational Capabilities Council (AFROCC) memorandum directed 1) Leverage lessons learned from AF-DARPA Falcon demo, and 2) Conduct Architecture Studies -- Responsive spacecraft: size and functions study, -- Integration and technology needs.

The successful SLVs from the Falcon program will be "graduated" to the Responsive Small Spacelift program conducted by the Rocket Systems Launch Program.

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

| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--|----------------|----------------|----------------|----------------|
| (U) Continue SLV system design and development, systems engineering and flight test planning for Phase II | | 11.000 | | |
| (U) Perform Range readiness and mission assurance for launch | | 3.046 | | |
| (U) Perform analysis, costing and assess utility for operationally responsive space concepts/requirements and Program Management support | | 1.760 | | |
| (U) TacSat-3&4 launch | | 12.004 | 1.817 | 0.405 |
| (U) Classified effort (per FY 2007 Congressional direction) | | 7.500 | | |
| (U) Total Cost | 0.000 | 35.310 | 1.817 | 0.405 |

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

| | <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>FY 2012</u> | <u>FY 2013</u> | <u>Cost to</u> | <u>Total Cost</u> |
|---------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| | <u>Actual</u> | <u>Estimate</u> | <u>Complete</u> | |
| (U) AF RDT&E, PE 0604855F, ORL (R-59) | 45.156 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | TBD |
| (U) Defensewide RDT&E, | 5.000 | 25.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | TBD |

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604857F Operationally Responsive
Space

PROJECT NUMBER AND TITLE

A016 Operationally Responsive Lift

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

DARPA, PE 0603285E,
Falcon (R-140)

(U) **D. Acquisition Strategy**

SLV efforts will be executed by the joint AF/DARPA Falcon Program Office. An open competition was held for Phase II contracts in August 2004, resulting in Other Transactional Agreement contract vehicles.

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Exhibit R-3, RDT&E Project Cost Analysis

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| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | PROJECT NUMBER AND TITLE A016 Operationally Responsive Lift |
|---|--|--|

| <u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions) | <u>Contract Method & Type</u> | <u>Performing Activity & Location</u> | <u>Total Prior to FY 2006 Cost</u> | <u>FY 2006 Cost</u> | <u>FY 2006 Award Date</u> | <u>FY 2007 Cost</u> | <u>FY 2007 Award Date</u> | <u>FY 2008 Cost</u> | <u>FY 2008 Award Date</u> | <u>FY 2009 Cost</u> | <u>FY 2009 Award Date</u> | <u>Cost to Complete</u> | <u>Total Cost</u> | <u>Target Value of Contract</u> |
|--|-----------------------------------|---|------------------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|-------------------------|-------------------|---------------------------------|
| <u>(U) Product Development</u> Falcon Phase II contractors: | OTA | Air Launch, Kirkland, WA | 0.000 | 0.000 | | 11.000 | Apr-07 | | | | | Continuing | TBD | TBD |
| Classified effort (per FY 2007 congressional direction) | TBD | TBD | | | | 7.500 | Feb-07 | | | | | | 7.500 | |
| Subtotal Product Development | | | 0.000 | 0.000 | | 18.500 | | 0.000 | | 0.000 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| <u>(U) Support</u> Subtotal Support | | | 0.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.000 |
| Remarks: | | | | | | | | | | | | | | |
| <u>(U) Test & Evaluation</u> Perform Range readiness and mission assurance for launch | TBD | various | 0.000 | 0.000 | | 3.046 | Dec-06 | | | | | Continuing | TBD | TBD |
| TacSat-3&4 launch | C-FPI | Orbital, Chandler, AZ | | | | 12.004 | May-06 | 1.817 | Oct-07 | 0.405 | Oct-08 | Continuing | TBD | TBD |
| Subtotal Test & Evaluation | | | 0.000 | 0.000 | | 15.050 | | 1.817 | | 0.405 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| <u>(U) Management</u> Perform analysis and assess alternative concepts/requirements & program support | various | various | 0.000 | 0.000 | | 1.760 | Dec-06 | | | | | Continuing | TBD | TBD |
| Subtotal Management | | | 0.000 | 0.000 | | 1.760 | | 0.000 | | 0.000 | | Continuing | TBD | TBD |
| Remarks: | | | | | | | | | | | | | | |
| <u>(U) Total Cost</u> | | | 0.000 | 0.000 | | 35.310 | | 1.817 | | 0.405 | | Continuing | TBD | TBD |

Exhibit R-4, RDT&E Schedule Profile

DATE
February 2007

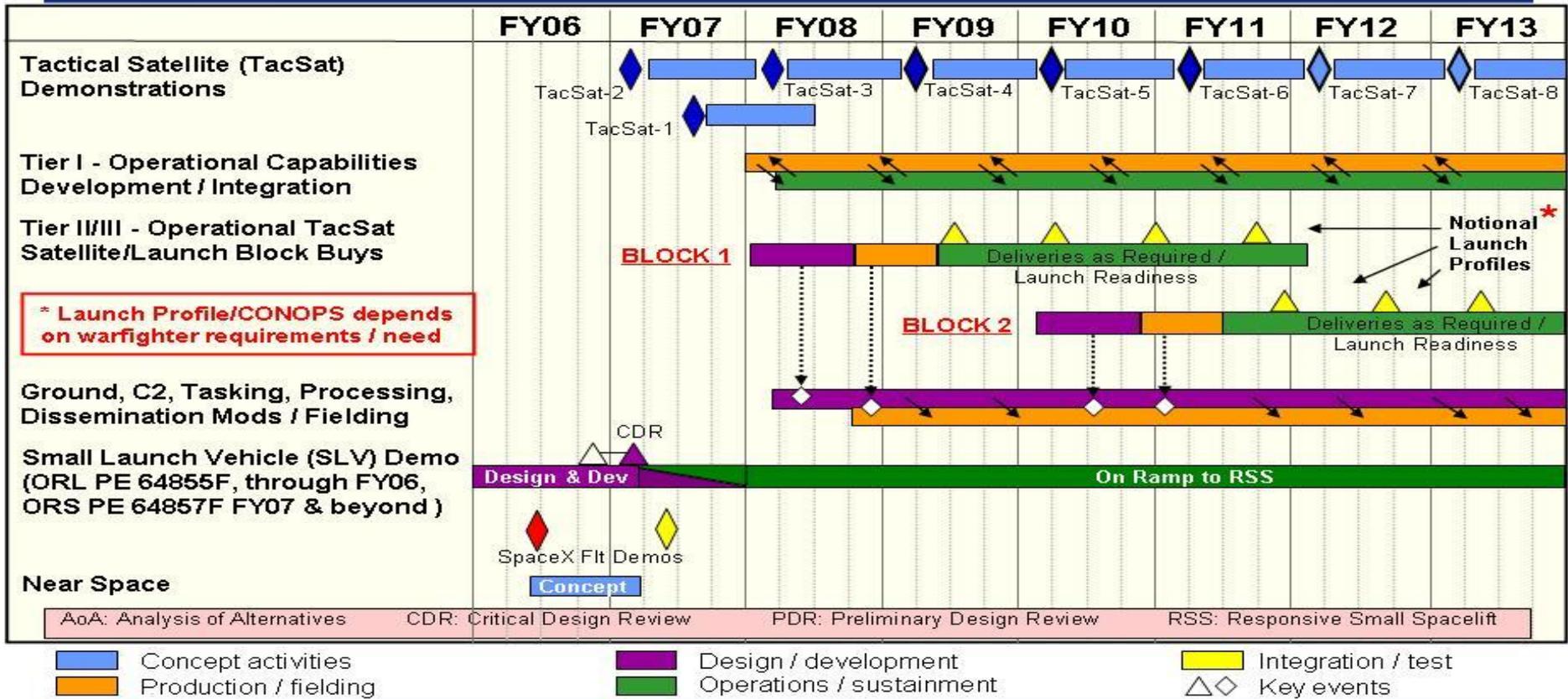
BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE
0604857F Operationally Responsive Space

PROJECT NUMBER AND TITLE
A016 Operationally Responsive Lift



Unclassified
**ORS
Schedule**



* Launch Profile/CONOPS depends on warfighter requirements / need

Unclassified

SLV Funded

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| Exhibit R-4a, RDT&E Schedule Detail | DATE February 2007 |
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|--|---|---|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604857F Operationally Responsive Space | PROJECT NUMBER AND TITLE A016 Operationally Responsive Lift |
|--|---|---|

| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--|----------------|----------------|----------------|----------------|
| (U) <u>Schedule Profile</u> | | | | |
| (U) Space-X Falcon-1 Demo Flight #2 | | 2Q | | |
| (U) Tactical Satellite (TacSat)-1 Launch | | 3Q | | |
| (U) TacSat-3 Launch | | | 1Q | |
| (U) TacSat-4 Launch | | | | 1Q |