| Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force | | | | | | | | | | | Date: February 2016 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development* | | | | | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | | | | | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2015** | **FY 2016** | **FY 2017 Base** | **FY 2017 OCO** | **FY 2017 Total** | **FY 2018** | **FY 2019** | **FY 2020** | **FY 2021** | **Cost To Complete** | **Total Cost** |
| Total Program Element | - | 8.537 | 2.515 | 3.051 | 0.000 | 3.051 | 2.334 | 1.446 | 1.505 | 1.532 | Continuing | Continuing |
| 675136: *Target Systems Development* | - | 3.828 | 0.842 | 1.915 | 0.000 | 1.915 | 1.914 | 1.446 | 1.505 | 1.532 | Continuing | Continuing |
| 675366: *QF-16* | - | 4.709 | 1.673 | 1.136 | 0.000 | 1.136 | 0.420 | 0.000 | 0.000 | 0.000 | 0.000 | 7.938 |

**A. Mission Description and Budget Item Justification**

Full-scale and subscale Aerial Targets assure warfighter's weapon systems will perform effectively against real-world enemy fighters and cruise missiles. Aerial Targets provide adherence to Public Law Title 10, Section 2366 "Live Fire/Lethality" developmental/operational test requirements. Targets are used to validate operational missile/weapon system effectiveness and fighter Operational Flight Program (OFP) updates. Targets are essential for development testing/operational testing for all air-to-air and surface-to-air missiles, and for the F-22A, F-35, F-18, F-16, and F-15, aircraft. The objective is to provide realistic targets for missile testing to enable the development of offensive counter-air systems (air-to-air and surface-to-air) capable of defeating changing enemy airborne threats. This program element funds development, improvements, and updates of full-scale/subscale aerial targets and target control systems to ensure aerial targets represent enemy threat airborne systems. Specialized target payload subsystems are developed for requirements to include but not limited to missile scoring, electronic attack, electronic countermeasures and infrared (IR) countermeasures, radar and IR signature augmentation, and chaff and flare dispensing systems.

This program is in budget activity 7 - Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

| B. Program Change Summary ($ in Millions) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 8.639 | 2.515 | 3.081 | 0.000 | 3.081 |
| Current President's Budget | 8.537 | 2.515 | 3.051 | 0.000 | 3.051 |
| Total Adjustments | -0.102 | 0.000 | -0.030 | 0.000 | -0.030 |
| • Congressional General Reductions | 0.000 | 0.000 | | | |
| • Congressional Directed Reductions | 0.000 | 0.000 | | | |
| • Congressional Rescissions | 0.000 | 0.000 | | | |
| • Congressional Adds | 0.000 | 0.000 | | | |
| • Congressional Directed Transfers | 0.000 | 0.000 | | | |
| • Reprogrammings | 0.000 | 0.000 | | | |
| • SBIR/STTR Transfer | -0.102 | 0.000 | | | |
| • Other Adjustments | 0.000 | 0.000 | -0.030 | 0.000 | -0.030 |

**Change Summary Explanation**

No Significant Program Changes

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | | Date: February 2016 |
|---|---|---|---|
| Appropriation/Budget Activity<br>3600 / 7 | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | Project (Number/Name)<br>675136 / *Target Systems Development* | |

| COST ($ in Millions) | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 675136: *Target Systems Development* | - | 3.828 | 0.842 | 1.915 | 0.000 | 1.915 | 1.914 | 1.446 | 1.505 | 1.532 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

**A. Mission Description and Budget Item Justification**

Full-scale aerial targets, subscale aerial targets, and companion Target Control Systems (TCS) assure the effectiveness and currency of warfighter weapon systems to combat real-world enemy fighters and cruise missiles. The BQM-167A Air Force Subscale Aerial Target (AFSAT) is a reusable jet-powered target aircraft measuring approximately 20 feet long with a mission to simulate threat aircraft for testing and evaluation of surface-to-air, ship-to-air, or air-to-air missiles. The target accomplishes this mission through the use of optional payloads including chaff and flare, electronic attack, and infrared devices. Funding supports continued improvement of launch phase performance and overall performance enhancement efforts. Funding supports development, improvements, and updates of target control systems and specialized target payload subsystems for requirements to include but not limited to missile scoring, electronic attack and infrared (IR) countermeasures, radar and IR signature augmentation, and chaff and flare dispensing systems.

Electronic Attack (EA) pod upgrade provides new techniques and capabilities critical to subscales and full-scales to realistically emulate foreign threat systems in support of weapons testing.

TCS provides a myriad of sub-systems that together delivers the capability to control and track mission aerial targets (full-scale and subscale) and to track a mix of other critical mission participants (to include relay platforms, shooters, and the missile system under test). In this role, TCS ensures an optimum integrated aerial target environment that enhances both weapon system assessments and companion aircrew skills, all the while assuring the full safety of mission participants throughout the conduct and fulfillment of T&E objectives. Funding supports continued improvement (modernization) of TCS capabilities to effectively meet the multi-service T&E demands of current and future warfighter weapon systems.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|---|---|---|---|---|
| ***Title:*** BQM-167A Development | 0.000 | 0.049 | 0.049 | 0.000 | 0.049 |
| ***Description:*** Provide enhancements to the radar cross section and infrared signature with accompanying test and integration. Begin development activities for an alternate launch system. | | | | | |
| ***FY 2015 Accomplishments:***<br>N/A | | | | | |
| ***FY 2016 Plans:*** | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675136 / *Target Systems Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|---|---|---|---|---|
| Continue BQM-167A improvement efforts. Conduct research and analysis on potential affordable, subscale aerial target platform concepts and support user requirements generation.<br>***FY 2017 Base Plans:***<br>Continue BQM-167A improvement efforts. Conduct research and analysis on potential affordable, subscale aerial target platform concepts, support user requirements generation for alternate launch capabilities to the current AFSAT platform and improve target endurance.<br>***FY 2017 OCO Plans:***<br>N/A | | | | | |
| ***Title:*** Target Control System<br>***Description:*** Provide system modernization enhancements to Target Control System Gulf Range Drone Control System, (GRDCS) for command and control and tracking of Aerial Targets.<br>***FY 2015 Accomplishments:***<br>Continued system modernization enhancements to Target Control System for command and control, tracking of Aerial Targets, Utah Test and Training Range (UTTR) Upgrade, and Loss of Carrier (LOC) Waypoint.<br>***FY 2016 Plans:***<br>Continue system modernization enhancements to include but not limited to Target Control System for command and control, tracking of Aerial Targets, UTTR Upgrade, and LOC Waypoint.<br>***FY 2017 Base Plans:***<br>Continue system modernization enhancements to include but not limited to Gulf Range Drone Control System (GRDCS)software updates to support QF-16 FOC at Holloman AF Base and future TCS architecture assessments.<br>***FY 2017 OCO Plans:***<br>N/A | 2.531 | 0.259 | 1.178 | 0.000 | 1.178 |
| ***Title:*** Digital Radio Frequency Memory (DRFM)<br>***Description:*** Upgrade existing and develop new electronic attack (EA) pod hardware and software used on QF-4, QF-16, and subscales to emulate evolving adversary EA tactics and techniques.<br>***FY 2015 Accomplishments:*** | 1.297 | 0.534 | 0.688 | 0.000 | 0.688 |

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675136 / *Target Systems Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|---|---|---|---|---|
| Continued efforts to upgrade existing and develop new EA pod hardware and software used on QF-4, QF-16, and subscales to emulate evolving adversary EA tactics and techniques.<br>***FY 2016 Plans:***<br>Continue efforts to upgrade existing and develop new EA pod hardware and software used on QF-4, QF-16, and subscales to emulate evolving adversary EA tactics and techniques.<br>***FY 2017 Base Plans:***<br>Continue efforts to upgrade existing and develop new EA pod hardware and software used on QF-16 and subscales to emulate evolving adversary EA tactics and techniques.<br>***FY 2017 OCO Plans:***<br>N/A | | | | | |
| **Accomplishments/Planned Programs Subtotals** | 3.828 | 0.842 | 1.915 | 0.000 | 1.915 |

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

| Line Item | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • APAF:BA04: Line Item # 10TRGT: *Target Drones* | 81.995 | 131.879 | 114.656 | 0.000 | 114.656 | 151.195 | 136.724 | 132.164 | 134.579 | Continuing | Continuing |
| • APAF: BA06: Line Item # 000999: *Initial Spares/Repair Parts* | 0.000 | 0.537 | 0.595 | 0.000 | 0.595 | 0.595 | 0.584 | 0.594 | 0.606 | Continuing | Continuing |
| • APAF: BA07: Line Item # 000074: *War Consumables* | 11.012 | 4.427 | 4.460 | 0.000 | 4.460 | 4.553 | 4.636 | 4.717 | 4.804 | Continuing | Continuing |
| • APAF: BA07: Line Item # 000075: *Other Production Charges* | 21.307 | 7.969 | 19.345 | 0.000 | 19.345 | 13.158 | 11.767 | 11.938 | 12.158 | Continuing | Continuing |
| • OPAF: BA03: Line Item # 834190: *Combat Training Ranges* | 3.054 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - |

**Remarks**

**D. Acquisition Strategy**

The AFSAT acquisition strategy is sole source follow-on with fixed price and time and materials contracts. The Target Control System acquisition strategy includes several small projects to provide enhancements to Target Control System (to include GRDCS) and will be accomplished with other government agencies and contracts as needed. EA Pods acquisition strategy includes several small projects managed by the US Navy program office to provide enhancements to the target payloads for subscale and full-scale targets.

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675136 / *Target Systems Development* |

**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.

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force | | | Date: February 2016 |
|---|---|---|---|
| Appropriation/Budget Activity<br>3600 / 7 | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | Project (Number/Name)<br>675136 / *Target Systems Development* | |

**Product Development ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Force Subscale Aerial Target (AFSAT) Product Improvements | SS/FFP | NAWC : Pt Mugu, CA | - | 0.000 | | 0.049 | Jan 2016 | 0.049 | Jan 2017 | 0.000 | | 0.049 | Continuing | Continuing | - |
| Target Control System | Various | Various : TBD | - | 2.087 | Jan 2015 | 0.243 | Jan 2016 | 1.161 | Jan 2017 | 0.000 | | 1.161 | Continuing | Continuing | - |
| Digital Radio Frequency Memory (DRFM) | Various | Various : Pt Mugu, CA | - | 1.297 | Jan 2015 | 0.534 | Jan 2016 | 0.688 | Jan 2017 | 0.000 | | 0.688 | Continuing | Continuing | - |
| | | **Subtotal** | - | 3.384 | | 0.826 | | 1.898 | | 0.000 | | 1.898 | - | - | - |

**Support ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Subtotal** | - | - | | - | | - | | - | | - | - | - | - |

**Test and Evaluation ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Subtotal** | - | - | | - | | - | | - | | - | - | - | - |

**Management Services ($ in Millions)**

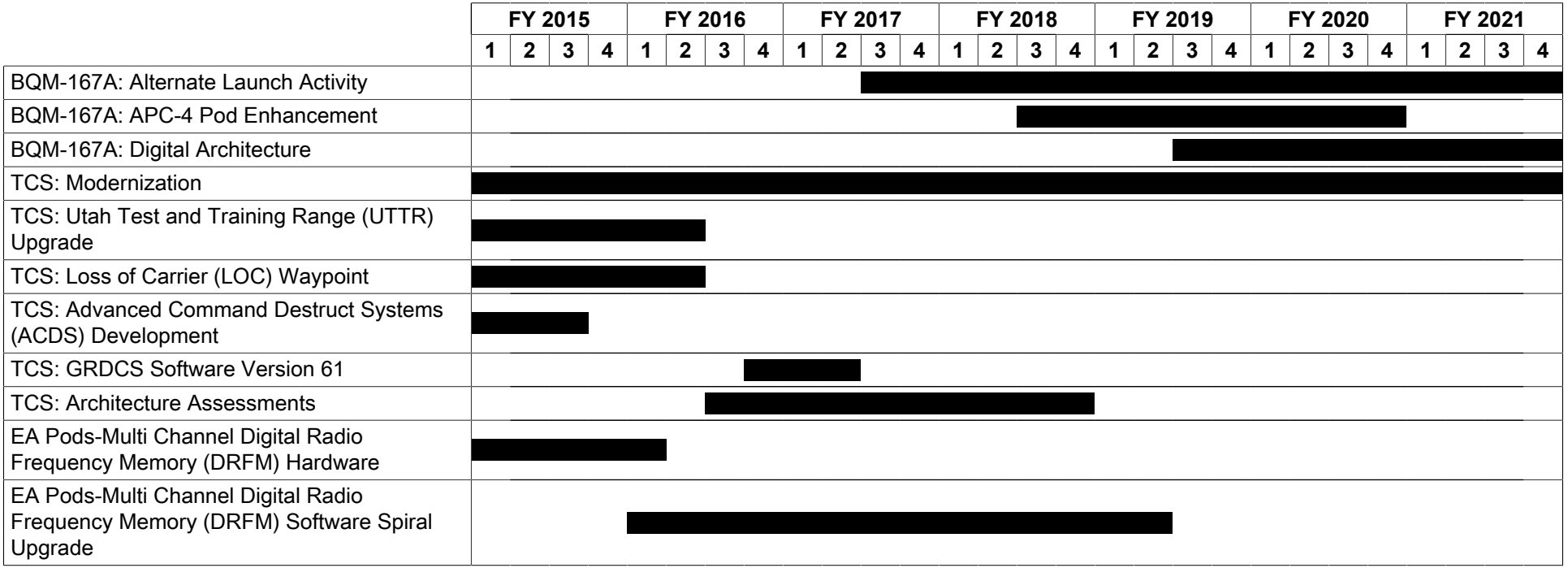
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Target Control System Program Management Administration (PMA) | Various | Various : Eglin AFB, FL | - | 0.444 | | 0.016 | | 0.017 | | 0.000 | | 0.017 | Continuing | Continuing | - |
| | | **Subtotal** | - | 0.444 | | 0.016 | | 0.017 | | 0.000 | | 0.017 | - | - | - |

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force | | | Date: February 2016 |
|---|---|---|---|
| Appropriation/Budget Activity<br>3600 / 7 | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | Project (Number/Name)<br>675136 / *Target Systems Development* | |

| | Prior Years | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Project Cost Totals** | - | 3.828 | | 0.842 | | 1.915 | | 0.000 | | 1.915 | - | - | - |

**Remarks**

| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675136 / *Target Systems Development* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675136 / *Target Systems Development* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| BQM-167A: Alternate Launch Activity | 3 | 2017 | 4 | 2021 |
| BQM-167A: APC-4 Pod Enhancement | 3 | 2018 | 4 | 2020 |
| BQM-167A: Digital Architecture | 3 | 2019 | 4 | 2021 |
| TCS: Modernization | 1 | 2015 | 4 | 2021 |
| TCS: Utah Test and Training Range (UTTR) Upgrade | 1 | 2015 | 2 | 2016 |
| TCS: Loss of Carrier (LOC) Waypoint | 1 | 2015 | 2 | 2016 |
| TCS: Advanced Command Destruct Systems (ACDS) Development | 1 | 2015 | 3 | 2015 |
| TCS: GRDCS Software Version 61 | 4 | 2016 | 2 | 2017 |
| TCS: Architecture Assessments | 3 | 2016 | 4 | 2018 |
| EA Pods-Multi Channel Digital Radio Frequency Memory (DRFM) Hardware | 1 | 2015 | 1 | 2016 |
| EA Pods-Multi Channel Digital Radio Frequency Memory (DRFM) Software Spiral Upgrade | 1 | 2016 | 2 | 2019 |

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | | Date: February 2016 |
|---|---|---|---|
| Appropriation/Budget Activity<br>3600 / 7 | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | Project (Number/Name)<br>675366 / *QF-16* | |

| COST ($ in Millions) | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 675366: *QF-16* | - | 4.709 | 1.673 | 1.136 | 0.000 | 1.136 | 0.420 | 0.000 | 0.000 | 0.000 | 0.000 | 7.938 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

**A. Mission Description and Budget Item Justification**

Full-scale Aerial Targets assure warfighters weapon systems perform effectively against real-world enemy fighters and cruise missiles. Aerial Targets support adherence to Public Law Title 10, Section 2366, which requires major systems and munitions programs to conduct survivability and lethality testing before full-rate production. The Aerial Targets program provides targets to satisfy "Live Fire/Lethality" developmental/operational test requirements. Targets are used to validate operational missile/weapon system effectiveness and fighter operational flight program (OFP) updates. Targets are required for developmental/operational testing for all air-to-air and surface-to-air missiles, and for the F-22A, F-35, F-18, F-16, and F-15, aircraft. The United States Air Force's (USAF) Air Superiority Modernization/ Mission Area Plan has identified aerial targets as a capability shortfall; the QF-16 program will fulfill this requirement. Funding supports continued development of the follow-on full-scale aerial target (QF-16) and simulators, development, improvements, and updates of target control systems and specialized target payload subsystems for requirements such as: missile scoring, electronic attack and infrared (IR) countermeasures, radar and IR signature augmentation, and chaff and flare dispensing systems. Development is required to evolve QF-16 threat capabilities to meet current and future threats identified by OSD.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|---|---|---|---|---|
| ***Title:*** QF-16 Development Program | 4.709 | 1.673 | 1.136 | 0.000 | 1.136 |
| ***Description:*** QF-16 Development Program<br><br>***FY 2015 Accomplishments:***<br>Continued threat realism improvements to radar cross section (RCS) reduction. Conducted studies and analysis for Future F-16 Block Studies and Development.<br><br>***FY 2016 Plans:***<br>Continue threat realism improvements. Conduct studies and analysis, including Future F-16 Block Studies and Development .<br><br>***FY 2017 Base Plans:***<br>Continue threat realism improvements to include but not limited to radar cross section (RCS) reduction and improved countermeasures. Conduct studies and analysis, including Future F-16 Block Studies and Development .<br><br>***FY 2017 OCO Plans:***<br>N/A | | | | | |
| **Accomplishments/Planned Programs Subtotals** | 4.709 | 1.673 | 1.136 | 0.000 | 1.136 |

| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675366 / *QF-16* |

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

| Line Item | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • APAF: BA 04: Line Item # 10TRGT: *Target Drones* | 81.995 | 131.879 | 114.656 | 0.000 | 114.656 | 151.195 | 136.724 | 132.164 | 134.579 | Continuing | Continuing |
| • APAF: BA 06: Line Item # 000999: *Initial Spares/Repair Parts* | 0.000 | 0.537 | 0.595 | 0.000 | 0.595 | 0.595 | 0.584 | 0.594 | 0.606 | Continuing | Continuing |
| • APAF: BA 07: Line Item # 000074: *War Consumables* | 11.012 | 4.427 | 4.460 | 0.000 | 4.460 | 4.553 | 4.636 | 4.717 | 4.804 | Continuing | Continuing |
| • APAF: BA 07: Line Item # 000075: *Other Production Charges* | 21.307 | 7.969 | 19.345 | 0.000 | 19.345 | 13.158 | 11.767 | 11.938 | 12.158 | Continuing | Continuing |
| • OPAF: BA 03: Line Item # 834190: *Combat Training Ranges* | 3.054 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - |

**Remarks**

**D. Acquisition Strategy**

The QF-16 was a competitive contract award, including fixed price incentive development contract with fixed priced production options (Lots 1-5). Planning is in progress to award sole source follow-on production and sustainment contract to incumbent for Lots 6-10 in FY18.

**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.

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force | | | Date: February 2016 |
|---|---|---|---|
| Appropriation/Budget Activity<br>3600 / 7 | R-1 Program Element (Number/Name)<br>PE 0305116F / *Aerial Targets* | Project (Number/Name)<br>675366 / *QF-16* | |

**Product Development ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drone Peculiar Equipment | C/Various | The Boeing Company : Saint Louis, MO | - | 4.709 | Mar 2015 | 1.673 | Dec 2015 | 1.136 | Mar 2017 | 0.000 | | 1.136 | Continuing | Continuing | - |
| | | **Subtotal** | - | 4.709 | | 1.673 | | 1.136 | | 0.000 | | 1.136 | - | - | - |

**Support ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Subtotal** | - | - | | - | | - | | - | | - | - | - | - |

**Test and Evaluation ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Subtotal** | - | - | | - | | - | | - | | - | - | - | - |

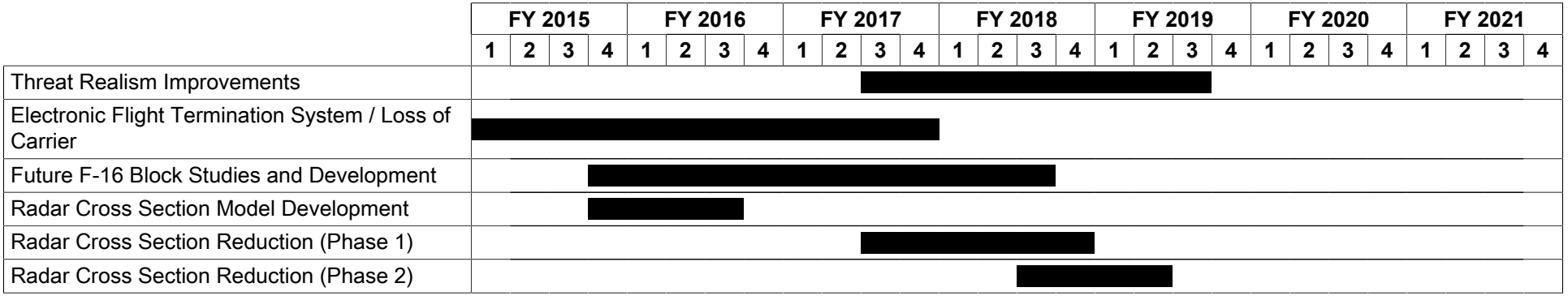
**Management Services ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2015 Cost | FY 2015 Award Date | FY 2016 Cost | FY 2016 Award Date | FY 2017 Base Cost | FY 2017 Base Award Date | FY 2017 OCO Cost | FY 2017 OCO Award Date | FY 2017 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Subtotal** | - | - | | - | | - | | - | | - | - | - | - |

| | Prior Years | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Project Cost Totals** | - | 4.709 | | 1.673 | | 1.136 | | 0.000 | | 1.136 | - | - | - |

**Remarks**

| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675366 / *QF-16* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force | | Date: February 2016 |
|---|---|---|
| **Appropriation/Budget Activity**<br>3600 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305116F / *Aerial Targets* | **Project (Number/Name)**<br>675366 / *QF-16* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| Threat Realism Improvements | 3 | 2017 | 3 | 2019 |
| Electronic Flight Termination System / Loss of Carrier | 1 | 2015 | 4 | 2017 |
| Future F-16 Block Studies and Development | 4 | 2015 | 3 | 2018 |
| Radar Cross Section Model Development | 4 | 2015 | 3 | 2016 |
| Radar Cross Section Reduction (Phase 1) | 3 | 2017 | 4 | 2018 |
| Radar Cross Section Reduction (Phase 2) | 3 | 2018 | 2 | 2019 |