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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force                                                                     |                 |         |                      |              |                                                      |               |         |         |         | DATE: April 2013 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|------------------------------------------------------|---------------|---------|---------|---------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets |               |         |         |         |                  |                  |            |
| COST (\$ in Millions)                                                                                                               | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                            | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018          | Cost To Complete | Total Cost |
| Total Program Element                                                                                                               | -               | 27.708  | 50.496               | 21.186       | -                                                    | 21.186        | 8.746   | 4.996   | 1.763   | 1.492            | Continuing       | Continuing |
| 675136: Target Systems Development                                                                                                  | -               | 6.287   | 6.945                | 9.993        | -                                                    | 9.993         | 3.917   | 1.777   | 1.763   | 1.492            | Continuing       | Continuing |
| 675366: QF-16                                                                                                                       | -               | 21.421  | 43.551               | 11.193       | -                                                    | 11.193        | 4.829   | 3.219   | 0.000   | 0.000            | Continuing       | Continuing |

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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

Full-scale and subscale targets assure warfighters 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. Target drones are used to validate operational missile/weapon system effectiveness and fighter Operational Flight Program (OFP) updates. Target drones 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, F-15, etc., 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.

In FY13, Digital Radio Frequency Memory (DRFM) funds execute in BPAC 675366. In FY14, DRFM funds are moved to BPAC 675136.

This program is in budget activity 7 - RDT&E 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. It provides aerial targets, target payloads, and target control systems in support of operational and developmental testing.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force                         |         |                             |              | DATE: April 2013 |               |
|-----------------------------------------------------------------------------------------|---------|-----------------------------|--------------|------------------|---------------|
| APPROPRIATION/BUDGET ACTIVITY                                                           |         | R-1 ITEM NOMENCLATURE       |              |                  |               |
| 3600: Research, Development, Test & Evaluation, Air Force                               |         | PE 0305116F: Aerial Targets |              |                  |               |
| BA 7: Operational Systems Development                                                   |         |                             |              |                  |               |
| B. Program Change Summary (\$ in Millions)                                              | FY 2012 | FY 2013                     | FY 2014 Base | FY 2014 OCO      | FY 2014 Total |
| Previous President's Budget                                                             | 45.620  | 50.496                      | 29.627       | -                | 29.627        |
| Current President's Budget                                                              | 27.708  | 50.496                      | 21.186       | -                | 21.186        |
| Total Adjustments                                                                       | -17.912 | 0.000                       | -8.441       | -                | -8.441        |
| • Congressional General Reductions                                                      | -       | 0.000                       |              |                  |               |
| • Congressional Directed Reductions                                                     | -       | 0.000                       |              |                  |               |
| • Congressional Rescissions                                                             | 0.000   | 0.000                       |              |                  |               |
| • Congressional Adds                                                                    | -       | 0.000                       |              |                  |               |
| • Congressional Directed Transfers                                                      | -       | 0.000                       |              |                  |               |
| • Reprogrammings                                                                        | -9.028  | 0.000                       |              |                  |               |
| • SBIR/STTR Transfer                                                                    | -1.684  | 0.000                       |              |                  |               |
| • Other Adjustments                                                                     | -7.200  | 0.000                       | -8.441       | -                | -8.441        |
| <b>Change Summary Explanation</b>                                                       |         |                             |              |                  |               |
| FY12: Reprogramming (Omnibus 2012 \$7.7M, Other \$1.328M)                               |         |                             |              |                  |               |
| FY12: Other Adjustments (PL 112-74 Section 8074 \$7.2M transfer to test and evaluation) |         |                             |              |                  |               |
| FY14: Funding removed to align with execution schedule                                  |         |                             |              |                  |               |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|------------------------------------------------------|---------------|---------|---------|-----------------------------------------------|---------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |         |                      |              |                                                      |               |         |         | DATE: April 2013                              |         |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets |               |         |         | PROJECT<br>675136: Target Systems Development |         |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                            | FY 2014 Total | FY 2015 | FY 2016 | FY 2017                                       | FY 2018 | Cost To Complete | Total Cost |
| 675136: Target Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -               | 6.287   | 6.945                | 9.993        | -                                                    | 9.993         | 3.917   | 1.777   | 1.763                                         | 1.492   | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | 0       | 0                    | 0            |                                                      | 0             | 0       | 0       | 0                                             | 0       |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| Full-scale and subscale targets assure warfighters weapon systems will perform effectively against real-world enemy fighters and cruise missiles. The BQM-167A Air Force Subscale Aerial Target (AFSAT) is a jet powered drone 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 to realistically emulate foreign threat systems. |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| This program is in budget activity 7 - RDT&E 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. It provides aerial targets, target payloads, and target control systems in support of operational and developmental testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                      |               |         |         | FY 2012                                       | FY 2013 | FY 2014          |            |
| Title: BQM-167A Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                      |               |         |         | 0.900                                         | 1.008   | 1.000            |            |
| Description: Provide enhancements to the radar cross section and infrared signature with accompanying test and integration. Begin design of an alternate launch system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| FY 2012 Accomplishments:<br>Continue Radar Cross Section (RCS) augmentation, design integration, and test. Perform infrared (IR) augmentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| FY 2013 Plans:<br>Continue RCS enhancement/implementation and initiate BQM-167 improvement efforts to include Alternate Launch System (ALS) study.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |
| FY 2014 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |                      |              |                                                      |               |         |         |                                               |         |                  |            |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    | <b>DATE:</b> April 2013                                     |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> | <b>PROJECT</b><br>675136: <i>Target Systems Development</i> |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    | <b>FY 2012</b>                                              | <b>FY 2013</b> |
| Continue RCS implementation and BQM-167 improvement efforts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |                                                             |                |
| <b>Title:</b> Target Control System<br><br><b>Description:</b> Provide system modernization enhancements to Target Control System (Gulf Range Drone Control System, GRDCS) for command and control and tracking of Aerial Targets.<br><br><b>FY 2012 Accomplishments:</b><br>Provide system modernization enhancements to Target Control System (Gulf Range Drone Control System, GRDCS) for command and control and tracking of Aerial Targets.<br><br><b>FY 2013 Plans:</b><br>Continue advanced command and destruct systems and other system modernization enhancements to Target Control System for command and control and tracking of Aerial Targets.<br><br><b>FY 2014 Plans:</b><br>Continue system modernization enhancements to Target Control System for command and control and tracking of Aerial Targets. |                                                                    | 4.902                                                       | 5.434          |
| <b>Title:</b> Digital Radio Frequency Memory (DRFM)<br><br><b>Description:</b> Upgrade existing and develop new electronic attack (EA) pod hardware and software used on QF-4, QF-16, and subscales to emulate adversary EA tactics and techniques.<br><br><b>FY 2012 Accomplishments:</b><br>N/A<br><br><b>FY 2013 Plans:</b><br>EA Pod development executed with funds from BPAC 675366 (QF-16) in FY13<br><br><b>FY 2014 Plans:</b><br>Upgrade existing and develop new electronic attack (EA) pod hardware and software used on QF-4, QF-16, and subscales to emulate adversary EA tactics and techniques.                                                                                                                                                                                                           |                                                                    | 0.000                                                       | 0.000          |
| <b>Title:</b> PMA<br><br><b>Description:</b> Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific<br><br><b>FY 2012 Accomplishments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    | 0.485                                                       | 0.503          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |                                                             | 0.519          |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Air Force                                                                                      |  |  |  |                                                                    |  |  |  | <b>DATE:</b> April 2013                                     |  |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> |  |  |  | <b>PROJECT</b><br>675136: <i>Target Systems Development</i> |  |  |  |

|                                                                                                                                                                                             |                |                |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                 | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> |
| Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific                          |                |                |                |
| <b>FY 2013 Plans:</b><br>Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific |                |                |                |
| <b>FY 2014 Plans:</b><br>Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                           | 6.287          | 6.945          | 9.993          |

| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                       |                |                |                               |                              |                                |                |                |                |                |                                   |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------------|------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|-------------------|
| <u>Line Item</u>                                                                                                                                                                                                                                                                                                                               | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u><br><u>Base</u> | <u>FY 2014</u><br><u>OCO</u> | <u>FY 2014</u><br><u>Total</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>Cost To</u><br><u>Complete</u> | <u>Total Cost</u> |
| • APAF:BA04: 10TRGT: <i>Target Drones</i>                                                                                                                                                                                                                                                                                                      | 59.268         | 129.866        | 138.669                       |                              | 138.669                        | 99.531         | 123.067        | 126.921        | 128.351        | Continuing                        | Continuing        |
| • APAF: BA06: 000999: <i>Initial Spares/Repair Parts</i>                                                                                                                                                                                                                                                                                       | 0.468          | 0.522          | 0.437                         |                              | 0.437                          | 0.659          | 0.623          | 0.578          | 0.598          | Continuing                        | Continuing        |
| • APAF: BA07: 000074: <i>War Consumables</i>                                                                                                                                                                                                                                                                                                   | 4.198          | 2.171          | 5.599                         |                              | 5.599                          | 5.262          | 4.503          | 4.584          | 4.667          | Continuing                        | Continuing        |
| • APAF: BA07: 000075: <i>Other Production Charges</i>                                                                                                                                                                                                                                                                                          | 10.298         | 5.275          | 13.515                        |                              | 13.515                         | 19.596         | 10.746         | 10.939         | 11.136         | Continuing                        | Continuing        |
| • OPAF: BA03: 834190: <i>Combat Training Ranges</i>                                                                                                                                                                                                                                                                                            | 0.000          | 0.795          | 2.492                         |                              | 2.492                          | 3.081          | 2.154          | 2.723          | 2.535          | Continuing                        | Continuing        |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                 |                |                |                               |                              |                                |                |                |                |                |                                   |                   |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                 |                |                |                               |                              |                                |                |                |                |                |                                   |                   |
| 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. |                |                |                               |                              |                                |                |                |                |                |                                   |                   |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Air Force                                                                                      |                                                                    | <b>DATE:</b> April 2013                                     |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> | <b>PROJECT</b><br>675136: <i>Target Systems Development</i> |

**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.

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force                                                                         |                        |                                |                 |         |            |                                                      |            |              |            |                                               |            | DATE: April 2013 |                  |            |                          |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development |                        |                                |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets |            |              |            | PROJECT<br>675136: Target Systems Development |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                                                                                                |                        |                                |                 | FY 2012 |            | FY 2013                                              |            | FY 2014 Base |            | FY 2014 OCO                                   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                  | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost    | Award Date | Cost                                                 | Award Date | Cost         | Award Date | Cost                                          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Air Force Subscale Aerial Target (AFSAT) Product Improvements                                                                       | SS/FFP                 | NAWC:Pt Mugu, CA               | -               | 0.900   | Jan 2012   | 1.008                                                | Jan 2013   | 1.000        | Jan 2014   | -                                             |            | 1.000            | Continuing       | Continuing |                          |
| Target Control System                                                                                                               | Various                | Various:,                      | -               | 4.902   | Dec 2012   | 5.434                                                | Apr 2013   | 5.573        | Jan 2014   | -                                             |            | 5.573            | Continuing       | Continuing |                          |
| Digital Radio Frequency Memory (DRFM)                                                                                               | Various                | Various:Pt Mugu, CA            | -               | 0.000   |            | 0.000                                                | Jan 2013   | 3.000        | Jan 2014   | -                                             |            | 3.000            | Continuing       | Continuing |                          |
| Subtotal                                                                                                                            |                        |                                | 0.000           | 5.802   |            | 6.442                                                |            | 9.573        |            | 0.000                                         |            | 9.573            |                  |            |                          |
| Support (\$ in Millions)                                                                                                            |                        |                                |                 | FY 2012 |            | FY 2013                                              |            | FY 2014 Base |            | FY 2014 OCO                                   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                  | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost    | Award Date | Cost                                                 | Award Date | Cost         | Award Date | Cost                                          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                                                                                            |                        |                                | 0.000           | 0.000   |            | 0.000                                                |            | 0.000        |            | 0.000                                         |            | 0.000            | 0.000            | 0.000      | 0.000                    |
| Test and Evaluation (\$ in Millions)                                                                                                |                        |                                |                 | FY 2012 |            | FY 2013                                              |            | FY 2014 Base |            | FY 2014 OCO                                   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                  | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost    | Award Date | Cost                                                 | Award Date | Cost         | Award Date | Cost                                          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                                                                                            |                        |                                | 0.000           | 0.000   |            | 0.000                                                |            | 0.000        |            | 0.000                                         |            | 0.000            | 0.000            | 0.000      | 0.000                    |
| Management Services (\$ in Millions)                                                                                                |                        |                                |                 | FY 2012 |            | FY 2013                                              |            | FY 2014 Base |            | FY 2014 OCO                                   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                  | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost    | Award Date | Cost                                                 | Award Date | Cost         | Award Date | Cost                                          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Target Control System Program Management Administration (PMA)                                                                       | Various                | Various:Eglin AFB, FL          | -               | 0.485   | Jan 2012   | 0.503                                                | Jan 2013   | 0.420        | Jan 2014   | -                                             |            | 0.420            | Continuing       | Continuing |                          |
| Subtotal                                                                                                                            |                        |                                | 0.000           | 0.485   |            | 0.503                                                |            | 0.420        |            | 0.000                                         |            | 0.420            |                  |            |                          |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force                                                                         |                 |         |  |         |                                                      |              |  |             |  |                                               | DATE: April 2013 |            |                          |  |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development |                 |         |  |         | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets |              |  |             |  | PROJECT<br>675136: Target Systems Development |                  |            |                          |  |
|                                                                                                                                     | All Prior Years | FY 2012 |  | FY 2013 |                                                      | FY 2014 Base |  | FY 2014 OCO |  | FY 2014 Total                                 | Cost To Complete | Total Cost | Target Value of Contract |  |
| Project Cost Totals                                                                                                                 | 0.000           | 6.287   |  | 6.945   |                                                      | 9.993        |  | 0.000       |  | 9.993                                         |                  |            |                          |  |

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force  
BA 7: Operational Systems Development

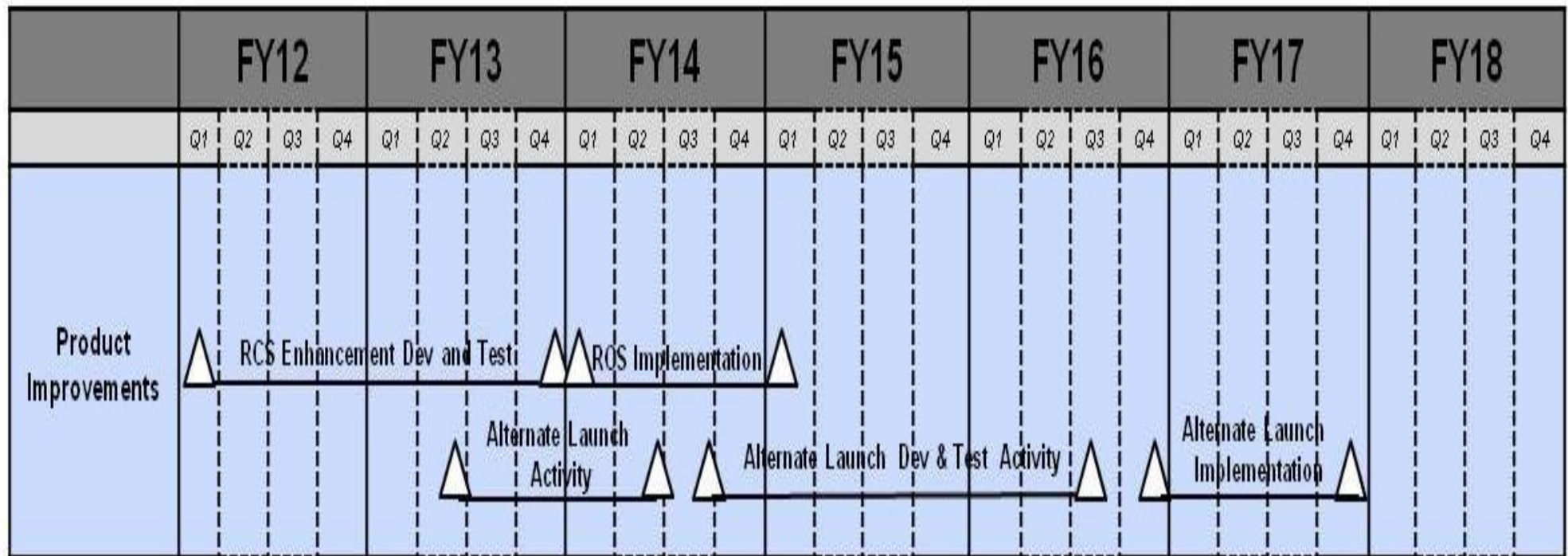
R-1 ITEM NOMENCLATURE

PE 0305116F: Aerial Targets

PROJECT

675136: Target Systems Development

# AFSAT Product Improvement Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force  
BA 7: Operational Systems Development

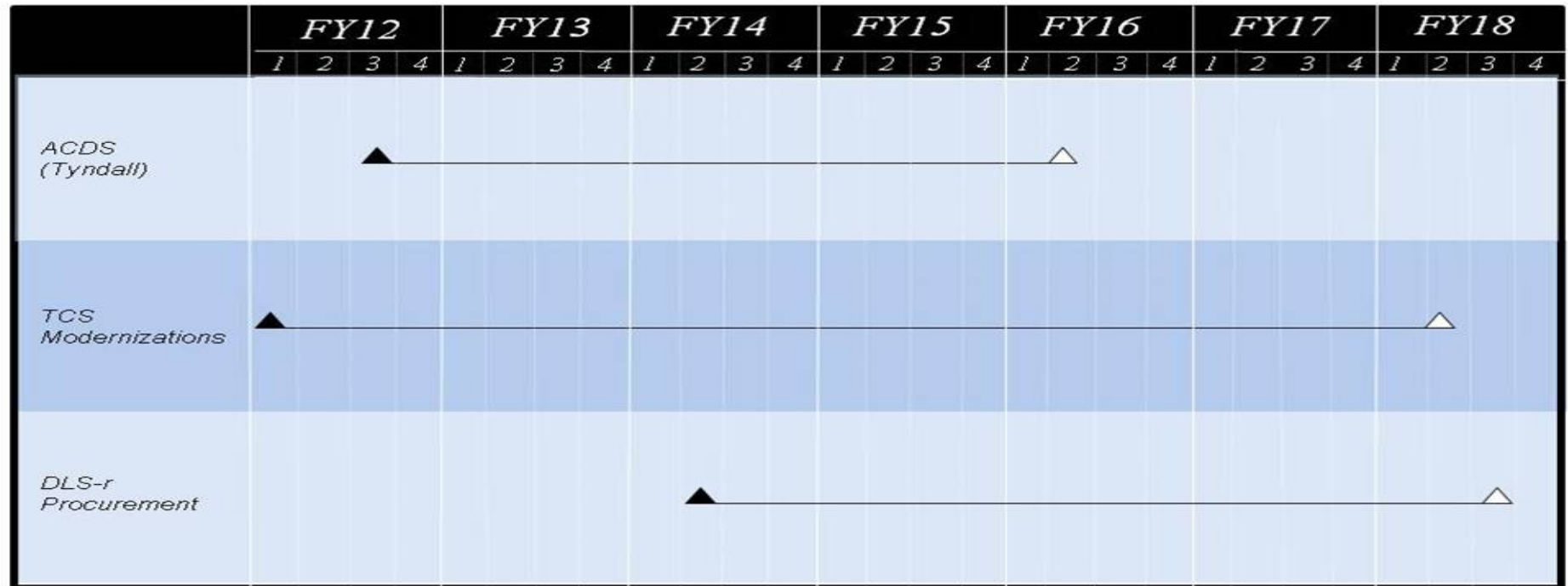
R-1 ITEM NOMENCLATURE

PE 0305116F: Aerial Targets

PROJECT

675136: Target Systems Development

# Target Control Systems Schedule



**UNCLASSIFIED**

|                                                                                                                                                              |                                                                    |                                                             |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-------------------------|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force                                                                                           |                                                                    |                                                             | <b>DATE:</b> April 2013 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> | <b>PROJECT</b><br>675136: <i>Target Systems Development</i> |                         |

Schedule Details

| Events                                                                    | Start   |      | End     |      |
|---------------------------------------------------------------------------|---------|------|---------|------|
|                                                                           | Quarter | Year | Quarter | Year |
| BQM-167A: RCS Enhancement Dev and Test                                    | 1       | 2012 | 2       | 2013 |
| BQM-167A: RCS Implementation                                              | 1       | 2014 | 1       | 2015 |
| BQM-167A: Alternate Launch Activity                                       | 2       | 2013 | 4       | 2017 |
| TCS: GRDCS Modernization                                                  | 1       | 2012 | 2       | 2018 |
| TCS: GRDCS Data Link SubSystem - Replacement (DLS-r) Test Set Procurement | 2       | 2014 | 3       | 2018 |
| TCS: Advanced Command Destruct Systems (ACDS) Development                 | 3       | 2012 | 2       | 2016 |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|------------------------------------------------------|---------------|---------|---------|--------------------------|------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                      |               |         |         |                          | DATE: April 2013 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets |               |         |         | PROJECT<br>675366: QF-16 |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                            | FY 2014 Total | FY 2015 | FY 2016 | FY 2017                  | FY 2018          | Cost To Complete | Total Cost |
| 675366: QF-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -               | 21.421  | 43.551               | 11.193       | -                                                    | 11.193        | 4.829   | 3.219   | 0.000                    | 0.000            | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 0       | 0                    | 0            |                                                      | 0             | 0       | 0       | 0                        | 0                |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| Full-scale 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 drones to satisfy "Live Fire/Lethality" developmental/operational test requirements. Target drones are used to validate operational missile/weapon system effectiveness and fighter operational flight program (OFP) updates. Target drones 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, F-15, etc., 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. Electronic Attack (EA) pod upgrade provides new techniques and capabilities critical to QF-16s to realistically emulate foreign threat systems. |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| This program is in budget activity 7 - RDT&E 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. It provides aerial targets, target payloads, and target control systems in support of operational and developmental testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |                      |              |                                                      |               |         |         | FY 2012                  | FY 2013          | FY 2014          |            |
| Title: QF-16 Development Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                      |               |         |         | 12.898                   | 16.850           | 3.150            |            |
| Description: QF-16 Development Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| FY 2012 Accomplishments:<br>Continued design/development/integration of drone package into F-16; efforts include design/development of drone peculiar equipment, build/install drone hardware prototypes, contractor system test and evaluation, target control system integration and contractor ground and flight testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |
| FY 2013 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |                      |              |                                                      |               |         |         |                          |                  |                  |            |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------|---------|---------|
| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      | DATE: April 2013         |         |         |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R-1 ITEM NOMENCLATURE<br>PE 0305116F: Aerial Targets | PROJECT<br>675366: QF-16 |         |         |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      | FY 2012                  | FY 2013 | FY 2014 |
| Continued design/development/integration of drone package into F-16; efforts include design/development of drone peculiar equipment, build/install drone hardware prototypes, contractor system test and evaluation, threat realism analysis, target control system integration and support of government development testing and operational testing (DT/OT).<br><b>FY 2014 Plans:</b><br>Finalization of EMD development contract, drone package integration, threat realism improvements and DT/OT.                                                                                                                                                                                                                                                                                                                        |                                                      |                          |         |         |
| <b>Title:</b> F-16 Regeneration<br><b>Description:</b> F-16 Regeneration<br><br><b>FY 2012 Accomplishments:</b><br>Continued support of F-16 aircraft withdrawal and refurbishment, engine maintenance and refurbishment, acquisition of support equipment, programmatic efforts in support of QF-16 development program. Beginning of government development and operational testing (DT/OT).<br><br><b>FY 2013 Plans:</b><br>Continued support of F-16 aircraft withdrawal and refurbishment, engine maintenance and refurbishment, acquisition of support equipment, programmatic efforts in support of QF-16 development program. Continuation and completeion of Government DT/OT.<br><br><b>FY 2014 Plans:</b><br>Continued support of Government DT/OT & programmatic efforts in support of QF-16 development program. |                                                      | 6.649                    | 22.826  | 7.418   |
| <b>Title:</b> Digital Radio Frequency Memory (DRFM)<br><b>Description:</b> Digital Radio Frequency Memory (DRFM)<br><br><b>FY 2012 Accomplishments:</b><br>N/A<br><br><b>FY 2013 Plans:</b><br>Upgrade existing and develop new electronic attack (EA) pod hardware and software used on QF-4, QF-16, and subscales to emulate adversary EA tactics and techniques.<br><br><b>FY 2014 Plans:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      | 0.000                    | 3.000   | 0.000   |
| <b>Title:</b> PMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      | 1.874                    | 0.875   | 0.625   |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------------|------------------------------|--------------------------------------------------------------------|----------------|----------------|----------------------------------------|----------------|-----------------------------------|-------------------|----------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                |                               |                              |                                                                    |                |                |                                        |                | <b>DATE:</b> April 2013           |                   |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                |                               |                              | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> |                |                | <b>PROJECT</b><br>675366: <i>QF-16</i> |                |                                   |                   |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                |                               |                              |                                                                    |                |                |                                        |                | <b>FY 2012</b>                    | <b>FY 2013</b>    | <b>FY 2014</b> |
| <b>Description:</b> Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific<br><br><b>FY 2012 Accomplishments:</b><br>Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific<br><br><b>FY 2013 Plans:</b><br>Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific<br><br><b>FY 2014 Plans:</b><br>Travel, office supplies, equipment, program office computer and communication expenses, Advisory and Assistance Service contractor support Aerial Targets specific |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                               |                              |                                                                    |                |                |                                        |                | 21.421                            | 43.551            | 11.193         |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |
| <u>Line Item</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>FY 2012</u> | <u>FY 2013</u> | <u>FY 2014</u><br><u>Base</u> | <u>FY 2014</u><br><u>OCO</u> | <u>FY 2014</u><br><u>Total</u>                                     | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u>                         | <u>FY 2018</u> | <u>Cost To</u><br><u>Complete</u> | <u>Total Cost</u> |                |
| • APAF: BA 04: 10TRGT: <i>Target Drones</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 59.268         | 129.866        | 138.669                       |                              | 138.669                                                            | 99.531         | 123.067        | 126.921                                | 128.351        | Continuing                        | Continuing        |                |
| • APAF: BA 06: 000999: <i>Initial Spares/Repair Parts</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.468          | 0.522          | 0.437                         |                              | 0.437                                                              | 0.659          | 0.623          | 0.578                                  | 0.598          | Continuing                        | Continuing        |                |
| • APAF: BA 07: 000074: <i>War Consumables</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.198          | 2.171          | 5.599                         |                              | 5.599                                                              | 5.262          | 4.503          | 4.584                                  | 4.667          | Continuing                        | Continuing        |                |
| • APAF: BA 07: 000075: <i>Other Production Charges</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.298         | 5.275          | 13.515                        |                              | 13.515                                                             | 19.596         | 10.746         | 10.939                                 | 11.136         | Continuing                        | Continuing        |                |
| • OPAF: BA 03: 834190: <i>Combat Training Ranges</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000          | 0.795          | 2.492                         |                              | 2.492                                                              | 3.081          | 2.154          | 2.723                                  | 2.535          | Continuing                        | Continuing        |                |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |
| The QF-16 acquisition strategy is a fixed price incentive firm, time and materials development contract with fixed price production options (Lots 1-5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                |                               |                              |                                                                    |                |                |                                        |                |                                   |                   |                |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                          |                                                             | DATE: April 2013                |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE<br>PE 0305116F: <i>Aerial Targets</i> | PROJECT<br>675366: <i>QF-16</i> |

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.

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force                                                  |                        |                                                                                                   |                 |         |            |                             |            |              |            |               |            | DATE: April 2013 |                  |            |                          |
|--------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------|-----------------|---------|------------|-----------------------------|------------|--------------|------------|---------------|------------|------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                |                        |                                                                                                   |                 |         |            | R-1 ITEM NOMENCLATURE       |            |              |            | PROJECT       |            |                  |                  |            |                          |
| 3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development           |                        |                                                                                                   |                 |         |            | PE 0305116F: Aerial Targets |            |              |            | 675366: QF-16 |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                                                                         |                        |                                                                                                   |                 | FY 2012 |            | FY 2013                     |            | FY 2014 Base |            | FY 2014 OCO   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                           | Contract Method & Type | Performing Activity & Location                                                                    | All Prior Years | Cost    | Award Date | Cost                        | Award Date | Cost         | Award Date | Cost          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Development of Drone Peculiar Equipment                                                                      | C/Various              | The Boeing Company:Saint Louis, MO                                                                | -               | 12.898  | Aug 2012   | 16.850                      | Dec 2012   | 3.150        | Mar 2014   | -             |            | 3.150            | Continuing       | Continuing |                          |
| Airframe/Engine - Government Furnished Equipment (GFE)                                                       | Various                | AAC/EBYA: Eglin AFB, FL; AMARG: Tucson, AZ, 162d ANG: Tucson, AZ; OC-ALC, Tinker AFB, OK:Various, | -               | 3.005   |            | 12.535                      |            | 0.000        |            | -             |            | 0.000            | Continuing       | Continuing |                          |
| Subtotal                                                                                                     |                        |                                                                                                   | 0.000           | 15.903  |            | 29.385                      |            | 3.150        |            | 0.000         |            | 3.150            |                  |            |                          |
| Support (\$ in Millions)                                                                                     |                        |                                                                                                   |                 | FY 2012 |            | FY 2013                     |            | FY 2014 Base |            | FY 2014 OCO   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                           | Contract Method & Type | Performing Activity & Location                                                                    | All Prior Years | Cost    | Award Date | Cost                        | Award Date | Cost         | Award Date | Cost          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| QF-16 Program Support                                                                                        | Various                | AAC/EBYA: Eglin AFB, FL; AMARG: Tucson, AZ; 162d ANG: Tucson, AZ; OO-ALC: Hill AFB, UT:Various,   | -               | 3.644   |            | 10.192                      |            | 7.034        |            | -             |            | 7.034            | Continuing       | Continuing |                          |
| Digital Radio Frequency Memory (DRFM)                                                                        | Various                | Various:Pt Mugu, CA                                                                               | -               | 0.000   |            | 3.000                       |            | 0.000        |            | -             |            | 0.000            | Continuing       | Continuing |                          |
| Subtotal                                                                                                     |                        |                                                                                                   | 0.000           | 3.644   |            | 13.192                      |            | 7.034        |            | 0.000         |            | 7.034            |                  |            |                          |
| Remarks                                                                                                      |                        |                                                                                                   |                 |         |            |                             |            |              |            |               |            |                  |                  |            |                          |
| The funds for the DRFM Electronic Attack Pods will be sent via MIPR to Pt Mugu for obligation and execution. |                        |                                                                                                   |                 |         |            |                             |            |              |            |               |            |                  |                  |            |                          |
| Test and Evaluation (\$ in Millions)                                                                         |                        |                                                                                                   |                 | FY 2012 |            | FY 2013                     |            | FY 2014 Base |            | FY 2014 OCO   |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                           | Contract Method & Type | Performing Activity & Location                                                                    | All Prior Years | Cost    | Award Date | Cost                        | Award Date | Cost         | Award Date | Cost          | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                                                                     |                        |                                                                                                   | 0.000           | 0.000   |            | 0.000                       |            | 0.000        |            | 0.000         |            | 0.000            | 0.000            | 0.000      | 0.000                    |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--------------------------------------------------------------------|--|--|--|----------------------------------------|-------------------------|--|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Air Force                                                                                       |  |  |  |  |  |  |                                                                    |  |  |  |                                        | <b>DATE:</b> April 2013 |  |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> |  |  |  |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> |  |  |  | <b>PROJECT</b><br>675366: <i>QF-16</i> |                         |  |  |  |

| Management Services (\$ in Millions)         |                        |                                |                 | FY 2012 |            | FY 2013 |            | FY 2014 Base |            | FY 2014 OCO |            | FY 2014 Total |                  |            |                          |
|----------------------------------------------|------------------------|--------------------------------|-----------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                           | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| QF-16 Program Mangement Administration (PMA) | Various                | Various:Eglin AFB, FL          | -               | 1.874   |            | 0.974   |            | 1.009        |            | -           |            | 1.009         | Continuing       | Continuing |                          |
| <b>Subtotal</b>                              |                        |                                | 0.000           | 1.874   |            | 0.974   |            | 1.009        |            | 0.000       |            | 1.009         |                  |            |                          |

|                            | All Prior Years | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-----------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 0.000           | 21.421  | 43.551  | 11.193       | 0.000       | 11.193        |                  |            |                          |

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force**

**DATE:** April 2013

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 7: Operational Systems Development

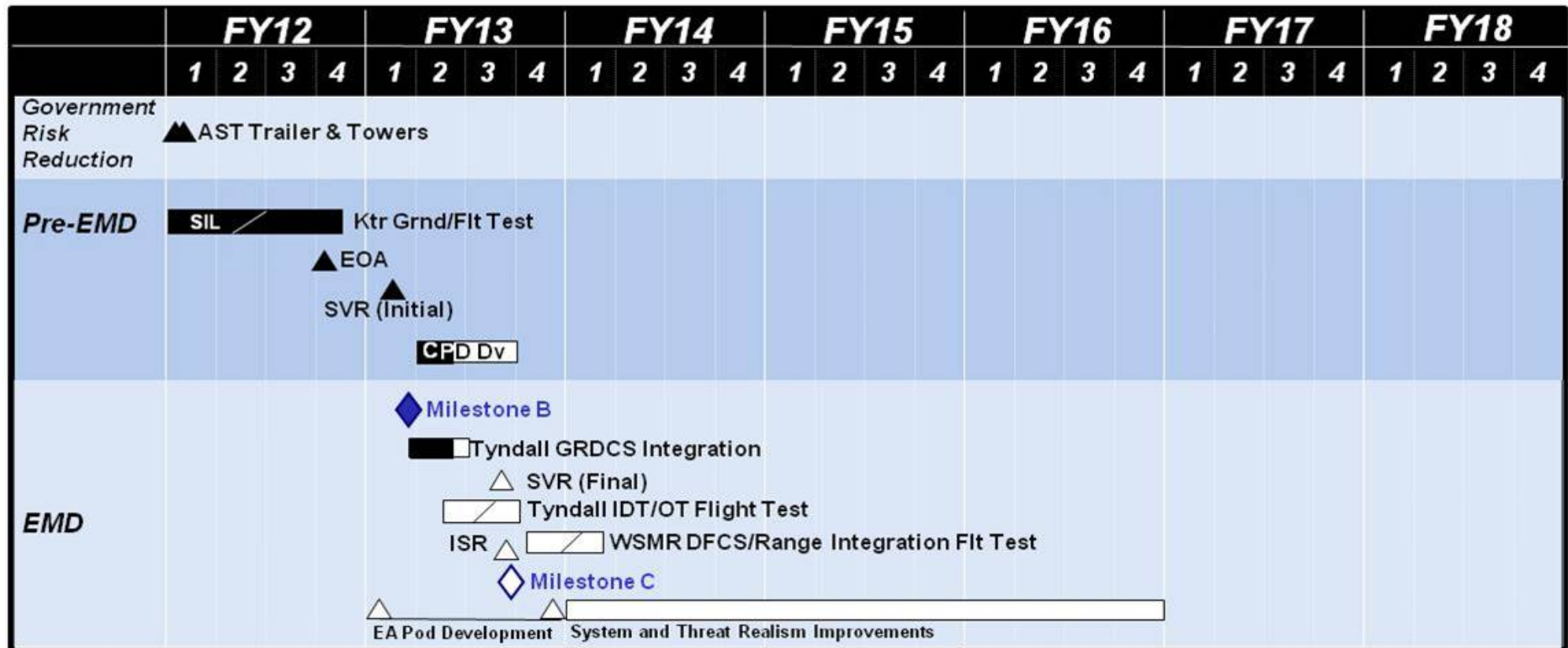
**R-1 ITEM NOMENCLATURE**

PE 0305116F: Aerial Targets

**PROJECT**

675366: QF-16

## QF-16 Master Schedule



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|                                                                                                                                                              |                                                                    |                                        |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|-------------------------|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force                                                                                           |                                                                    |                                        | <b>DATE:</b> April 2013 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305116F: <i>Aerial Targets</i> | <b>PROJECT</b><br>675366: <i>QF-16</i> |                         |

Schedule Details

| Events                                          | Start   |      | End     |      |
|-------------------------------------------------|---------|------|---------|------|
|                                                 | Quarter | Year | Quarter | Year |
| System Verification Review (SVR), Initial       | 1       | 2013 | 1       | 2013 |
| Milestone B (MS B)                              | 1       | 2013 | 1       | 2013 |
| Development Testing/Operational Testing (DT/OT) | 4       | 2012 | 1       | 2014 |
| SVR, Final                                      | 3       | 2013 | 3       | 2013 |
| EA Pod Development                              | 1       | 2013 | 4       | 2013 |
| Threat Realism Improvements                     | 1       | 2014 | 4       | 2014 |