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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |         |              |                                                                          |               |         |         |         | Date: February 2015 |                  |            |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0207161F I Tactical AIM Missiles |               |         |         |         |                     |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                                              | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020             | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54.914      | 12.376  | 29.739  | 43.360       | -                                                                        | 43.360        | 52.836  | 13.984  | 13.244  | 13.481              | 1.620            | 235.554    |
| 674132: AIM-9 Product Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54.914      | 12.376  | 29.739  | 43.360       | -                                                                        | 43.360        | 52.836  | 13.984  | 13.244  | 13.481              | 1.620            | 235.554    |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -           | -       | -       | -            | -                                                                        | -             | -       | -       | -       | -                   |                  |            |
| Program MDAP/MAIS Code: 442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |         |         |              |                                                                          |               |         |         |         |                     |                  |            |
| <b>Note</b><br>Funding in FY11 and out is for the Block II program only. The AIM-9X Block I program costs for FY11 and prior are \$233.583M. The AIM-9X Block II program costs for FY13 and prior are \$54.914M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                          |               |         |         |         |                     |                  |            |
| <b>A. Mission Description and Budget Item Justification</b><br>The AIM-9X (Sidewinder) short-range air-to-air missile is a long-term evolution of the AIM-9 series of fielded missiles. The AIM-9X missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority in the short range air-to-air missile arena is essential and includes first-shot, first-kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuze, rocket motor, and warhead). Anti-Tamper features have been incorporated to protect improvements inherent in this design. AIM-9X is a Post Milestone III, Acquisition Category 1C (ACAT 1C) joint-service program with Navy lead.<br><br>The Block II program is in Low Rate Initial Production (LRIP) and the LRIP-4 contract was awarded in June 2014. This budget line item continues to fund the development, test and integration of software updates to the missile, redesign of obsolete missile components, insensitive munitions improvements and aircraft platform integration to ensure these capabilities perform in accordance with established requirements as documented in the Capabilities Production Document. Beginning in FY 2016, Navy will join the US Air Force efforts already in progress to develop missile software improvements for the next incremental version 9.4 (v9.4) as well as hardware updates to improve Insensitive Munitions performance.<br><br>AIM-9X Block I concluded in FY2011 and all funding/quantity data in the documents are associated with Block II activities.<br><br>BA7- This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.<br><br>The FY2016 funding request was reduced by \$2.484 million to account for the availability of prior execution balances. |             |         |         |              |                                                                          |               |         |         |         |                     |                  |            |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                          |         | Date: February 2015 |             |               |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7:<br>Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | R-1 Program Element (Number/Name)<br>PE 0207161F / Tactical AIM Missiles |         |                     |             |               |
| B. Program Change Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | FY 2014                                                                  | FY 2015 | FY 2016 Base        | FY 2016 OCO | FY 2016 Total |
| Previous President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 12.760                                                                   | 29.739  | 46.133              | -           | 46.133        |
| Current President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 12.376                                                                   | 29.739  | 43.360              | -           | 43.360        |
| Total Adjustments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | -0.384                                                                   | -       | -2.773              | -           | -2.773        |
| • Congressional General Reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | -                                                                        | -       |                     |             |               |
| • Congressional Directed Reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | -                                                                        | -       |                     |             |               |
| • Congressional Rescissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | -                                                                        | -       |                     |             |               |
| • Congressional Adds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | -                                                                        | -       |                     |             |               |
| • Congressional Directed Transfers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | -                                                                        | -       |                     |             |               |
| • Reprogrammings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | -                                                                        | -       |                     |             |               |
| • SBIR/STTR Transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | -0.384                                                                   | -       |                     |             |               |
| • Other Adjustments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | -                                                                        | -       | -2.773              | -           | -2.773        |
| Change Summary Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                          |         |                     |             |               |
| The FY2016 funding request was reduced by \$2.484 million to account for the availability of prior execution balances.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                          |         |                     |             |               |
| The FY2016 funding request was reduced by \$0.289 million to fund higher Air Force priorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                          |         |                     |             |               |
| C. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                          |         | FY 2014             | FY 2015     | FY 2016       |
| Title: Air Intercept Missile - 9X, Product Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                          |         | 12.376              | 25.481      | 39.174        |
| Description: Continuation of Primary Hardware Development/Pre-Planned Product Improvement (P3I) efforts for the AIM-9X weapon system. This includes Systems Engineering/Program Management (SEPM), as well as associated governmental and contractor support required to ensure AIM-9X missile integration with threshold aircraft platforms. Also, includes efforts to redesign missile components in order to resolve Block II common component obsolescence, implement cost reduction initiatives, and to comply with the Insensitive Munitions (IM) requirements as established by Joint Requirements Oversight Council memo dated 11 February 2009. The program will implement improvements to the warhead developed by Navy Research Laboratory, to incorporate into the AIM-9X Block II production missile. Beginning in FY2016, the Navy will join in the Air Force efforts that began in FY2015 to develop software improvements for the next incremental version 9.4 (v9.4x) to incorporate into the FY2017 AIM-9X Block II production missile. |  |                                                                          |         |                     |             |               |
| FY 2014 Accomplishments:<br>Continued support of AIM-9X Block II integration. Continued support of Operational Test anomaly resolution. Identified missile component obsolescence redesign critical to maintaining production for the Block II missile system in accordance with the program Capabilities Production Document (CPD) objectives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                          |         |                     |             |               |
| FY 2015 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                          |         |                     |             |               |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |                 |                |                                                                          |         |         |         |         | Date: February 2015 |            |         |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7:<br>Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |         |                 |                | R-1 Program Element (Number/Name)<br>PE 0207161F I Tactical AIM Missiles |         |         |         |         |                     |            |         |
| C. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |         |                 |                |                                                                          |         |         |         |         | FY 2014             | FY 2015    | FY 2016 |
| Continue support of Block II integration and OT. Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements associated with the F-15 to utilize full capability of the Block II missile. Continue study on IM alternatives and risk reduction methods. Continue Engineering Manufacturing Development (EMD) required to redesign, integrate, test and qualify components due to obsolescence and implement cost reduction initiatives.<br><br>FY 2016 Plans:<br>Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements associated with the F-15 suite 9 Operational Flight Program (OFP) to utilize full capability of the Block II missile. Continue study on IM alternatives and risk reduction methods to enhance IM performance. Continue EMD required to redesign, integrate, test and qualify components due to obsolescence and implement cost reduction initiatives. |         |         |                 |                |                                                                          |         |         |         |         |                     |            |         |
| Title: Air Intercept Missile - 9X, Test and Evaluation<br><br>Description: Funding required for Test & Evaluation (T&E) and associated governmental support required to ensure AIM-9X missile integration with threshhold aircraft platforms.<br><br>FY 2014 Accomplishments:<br>Continued Block II Operational Testing (OT-C1) and engineering efforts to integrate the Block II+ on F-15 arcraft.<br><br>FY 2015 Plans:<br>Complete OT-C1 (Operational Test) and await final Initial OT&E (IOT&E) and Beyond LRIP reports. Begin Developmental Test (DT-D1) of v9.4 Block II software as well as improvements associated with the F-15 to utilize full capability of the Block II missile.<br><br>FY 2016 Plans:<br>Continue DT-D1 (Developmental Test) and IT-D1 (Integrated Testing) of v9.4 Block II software including improvements associated with the F-15 suite 9 OFP to utilize full capability of the Block II missile.                                                                                         |         |         |                 |                |                                                                          |         |         |         |         | -                   | 4.258      | 4.186   |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                 |                |                                                                          |         |         |         |         | 12.376              | 29.739     | 43.360  |
| D. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |                 |                |                                                                          |         |         |         |         |                     |            |         |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FY 2014 | FY 2015 | FY 2016<br>Base | FY 2016<br>OCO | FY 2016<br>Total                                                         | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To<br>Complete | Total Cost |         |
| • MPAF: BA02: Line Item #<br>M09HA1: Sidewinder (AIM-9X)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 105.190 | 129.121 | 200.777         | -              | 200.777                                                                  | 212.377 | 204.524 | 115.491 | 117.572 | 323.107             | 1,645.532  |         |
| • MPAF: BA04: Line Item #<br>000999: Replen Spares, USAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10.838  | 10.720  | 10.755          | -              | 10.755                                                                   | 11.106  | 11.290  | 11.456  | 11.661  | Continuing          | Continuing |         |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                                          |                  |         |         |         | Date: February 2015 |                     |            |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7:<br>Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                   |         |         |                 | R-1 Program Element (Number/Name)<br>PE 0207161F I Tactical AIM Missiles |                  |         |         |         |                     |                     |            |
| D. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |         |                 |                                                                          |                  |         |         |         |                     |                     |            |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FY 2014 | FY 2015 | FY 2016<br>Base | FY 2016<br>OCO                                                           | FY 2016<br>Total | FY 2017 | FY 2018 | FY 2019 | FY 2020             | Cost To<br>Complete | Total Cost |
| • MPAF: BA04: Line Item #<br>000999: Initial Spares, USAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.650   | 1.717   | 0.604           | -                                                                        | 0.604            | 2.447   | 2.254   | 1.834   | 1.868               | 17.266              | 34.294     |
| • RDTE: BA07: PE 0207161N:<br>Tactical AIM Missile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17.518  | 37.258  | 76.016          | -                                                                        | 76.016           | 60.772  | 36.489  | 33.189  | 0.213               | 3.965               | 319.139    |
| • WPN: BA02: Line Item<br># 2209: Sidewinder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 96.689  | 68.178  | 96.427          | -                                                                        | 96.427           | 103.644 | 107.375 | 75.623  | 76.045              | 682.974             | 1,485.017  |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                 |                                                                          |                  |         |         |         |                     |                     |            |
| Congressional language directed the program to report as a missile procurement (3020, BP20), starting in FY2002, and not as a missile modification (3020, BP21).                                                                                                                                                                                                                                                                                                                                                                        |         |         |                 |                                                                          |                  |         |         |         |                     |                     |            |
| E. Acquisition Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                 |                                                                          |                  |         |         |         |                     |                     |            |
| In June 2011, the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program for entry at Milestone C and LRIP. The 2366 A/B certification and Acquisition Program Baseline for AIM-9X Block II was signed 23 Dec 2011 and the Block I program was completed. The LRIP-1 (Lot 11) contract was awarded in Sep 2011, LRIP-2 (Lot 12) was awarded in Dec 2011, LRIP-3 (Lot 13) was awarded August 2013, and LRIP-4 (Lot 14) was awarded in June 2014. Full Rate Production (FRP) decision is planned for FY 2015. |         |         |                 |                                                                          |                  |         |         |         |                     |                     |            |
| F. 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 2016 Air Force |                        |                                |             |         |            |                                                                          |            |                 |            |                                                             |            | Date: February 2015 |                  |            |                          |
| Appropriation/Budget Activity<br>3600 / 7                   |                        |                                |             |         |            | R-1 Program Element (Number/Name)<br>PE 0207161F / Tactical AIM Missiles |            |                 |            | Project (Number/Name)<br>674132 / AIM-9 Product Improvement |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                        |                        |                                |             | FY 2014 |            | FY 2015                                                                  |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                     | Award Date | Cost            | Award Date | Cost                                                        | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| RMS Software/OFP Upgrade                                    | SS/CPFF                | RMS : Tucson, AZ               | 25.435      | 10.815  | Mar 2014   | 12.391                                                                   | Aug 2015   | 27.566          | Mar 2016   | -                                                           |            | 27.566              | 61.420           | 137.627    | 137.627                  |
| Munitions Improvement Study (RG)                            | SS/CPFF                | RMS : Tucson, AZ               | 0.000       | 1.174   | Mar 2014   | 2.170                                                                    | Jun 2015   | 3.000           | Mar 2016   | -                                                           |            | 3.000               | 12.947           | 19.291     | 19.291                   |
| Munitions Improvement Study (USG)                           | MIPR                   | NAWC WD : China Lake, CA       | 1.903       | -       |            | 2.170                                                                    | Mar 2015   | 3.148           | Mar 2016   | -                                                           |            | 3.148               | 11.923           | 19.144     | 19.144                   |
| Aircraft Integration                                        | SS/CPFF                | Boeing : St. Louis, MO         | 0.000       | -       |            | 8.200                                                                    | Jun 2015   | 4.900           | Jun 2016   | -                                                           |            | 4.900               | 1.600            | 14.700     | 14.700                   |
| RMS P3I Contract                                            | Various                | Various : ,                    | 9.381       | -       |            | -                                                                        |            | -               |            | -                                                           |            | -                   | -                | 9.381      | 9.381                    |
| Subtotal                                                    |                        |                                | 36.719      | 11.989  |            | 24.931                                                                   |            | 38.614          |            | -                                                           |            | 38.614              | 87.890           | 200.143    | 200.143                  |
| Support (\$ in Millions)                                    |                        |                                |             | FY 2014 |            | FY 2015                                                                  |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | 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                                                    |                        |                                | -           | -       |            | -                                                                        |            | -               |            | -                                                           |            | -                   | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                        |                        |                                |             | FY 2014 |            | FY 2015                                                                  |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                     | Award Date | Cost            | Award Date | Cost                                                        | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| DT&E/OT&E for P3I                                           | MIPR                   | Various : Various,             | 14.967      | -       |            | 1.558                                                                    | Mar 2015   | 1.586           | Mar 2016   | -                                                           |            | 1.586               | 4.930            | 23.041     | 23.041                   |
| DT&E/OT&E for F-15                                          | MIPR                   | Various : Various,             | 0.000       | -       |            | 2.700                                                                    | Apr 2015   | 2.600           | Apr 2016   | -                                                           |            | 2.600               | -                | 5.300      | 5.300                    |
| Subtotal                                                    |                        |                                | 14.967      | -       |            | 4.258                                                                    |            | 4.186           |            | -                                                           |            | 4.186               | 4.930            | 28.341     | 28.341                   |
| Management Services (\$ in Millions)                        |                        |                                |             | FY 2014 |            | FY 2015                                                                  |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                     | Award Date | Cost            | Award Date | Cost                                                        | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| PMA                                                         | MIPR                   | PMA-259 : Patuxent River, MD   | 3.228       | 0.387   | Feb 2014   | 0.550                                                                    | Mar 2015   | 0.560           | Mar 2016   | -                                                           |            | 0.560               | 2.345            | 7.070      | 7.070                    |

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|------------------------------------------------------------------------|--|--|--|--|--|----------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------|--|----------------------------|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2016 Air Force |  |  |  |  |  |                                                                                        |  |  |  |                                                                           |  | <b>Date:</b> February 2015 |  |  |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                       |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0207161F / <i>Tactical AIM Missiles</i> |  |  |  | <b>Project (Number/Name)</b><br>674132 / <i>AIM-9 Product Improvement</i> |  |                            |  |  |

  

| Management Services (\$ in Millions) |                              |                                   |                | FY 2014 |               | FY 2015 |               | FY 2016<br>Base |               | FY 2016<br>OCO |               | FY 2016<br>Total |                     |               |                                |
|--------------------------------------|------------------------------|-----------------------------------|----------------|---------|---------------|---------|---------------|-----------------|---------------|----------------|---------------|------------------|---------------------|---------------|--------------------------------|
| Cost Category Item                   | Contract<br>Method<br>& Type | Performing<br>Activity & Location | Prior<br>Years | Cost    | Award<br>Date | Cost    | Award<br>Date | Cost            | Award<br>Date | Cost           | Award<br>Date | Cost             | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |
| <b>Subtotal</b>                      |                              |                                   | 3.228          | 0.387   |               | 0.550   |               | 0.560           |               | -              |               | 0.560            | 2.345               | 7.070         | 7.070                          |

  

|                            | Prior<br>Years | FY 2014 | FY 2015 | FY 2016<br>Base | FY 2016<br>OCO | FY 2016<br>Total | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |
|----------------------------|----------------|---------|---------|-----------------|----------------|------------------|---------------------|---------------|--------------------------------|
| <b>Project Cost Totals</b> | 54.914         | 12.376  | 29.739  | 43.360          | -              | 43.360           | 95.165              | 235.554       | 235.554                        |

  

**Remarks**

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Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Air Force

Date: February 2015

## Appropriation/Budget Activity

3600 / 7

## R-1 Program Element (Number/Name)

PE 0207161F / Tactical AIM Missiles

## Project (Number/Name)

674132 / AIM-9 Product Improvement

|                                                                                                 | FY 2014 |   |   |   | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   |
|-------------------------------------------------------------------------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                                                                                                 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| T&E Milestones: Block II Development Test: v9.3 Operational Test (OT-C1)                        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| T&E Milestones: Block II Development Test: v9.4 Development Test (DT-D1)                        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| T&E Milestones: Block II Development Test: v9.4 Integrated Development/Operational Test (IT-D1) |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| T&E Milestones: Block II Development Test v9.4 Operational Test (OT-D1)                         |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Low Rate Initial Production (LRIP 4)                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Full Rate Production (FRP 1)                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Full Rate Production (FRP 2)                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Full Rate Production (FRP 3)                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Full Rate Production (FRP 4)                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Block II Contract Award: Full Rate Production (FRP 5)                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Low Rate Initial Production Lot 12 / LRIP 2                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Low Rate Initial Production Lot 13 / LRIP 3                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Low Rate Initial Production Lot 14 / LRIP 4                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Full Rate Production Lot 15 / FRP 1                                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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|-------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------------------------------------------|---|---|---|---------|---|---|---|-------------------------------------------------------------|---|---|---|---------------------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force      |  |  |  |  |  |  |  |  |  |                                                                          |   |   |   |         |   |   |   |                                                             |   |   |   | Date: February 2015 |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Appropriation/Budget Activity<br>3600 / 7                   |  |  |  |  |  |  |  |  |  | R-1 Program Element (Number/Name)<br>PE 0207161F / Tactical AIM Missiles |   |   |   |         |   |   |   | Project (Number/Name)<br>674132 / AIM-9 Product Improvement |   |   |   |                     |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                                             |  |  |  |  |  |  |  |  |  | FY 2014                                                                  |   |   |   | FY 2015 |   |   |   | FY 2016                                                     |   |   |   | FY 2017             |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   |
|                                                             |  |  |  |  |  |  |  |  |  | 1                                                                        | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1                                                           | 2 | 3 | 4 | 1                   | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| Production: Deliveries: Full Rate Production Lot 16 / FRP 2 |  |  |  |  |  |  |  |  |  |                                                                          |   |   |   |         |   |   |   |                                                             |   |   |   |                     |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Full Rate Production Lot 17 / FRP 3 |  |  |  |  |  |  |  |  |  |                                                                          |   |   |   |         |   |   |   |                                                             |   |   |   |                     |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Production: Deliveries: Full Rate Production Lot 18 / FRP 4 |  |  |  |  |  |  |  |  |  |                                                                          |   |   |   |         |   |   |   |                                                             |   |   |   |                     |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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|--------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Air Force |                                                                                        |                                                                           | <b>Date:</b> February 2015 |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0207161F / <i>Tactical AIM Missiles</i> | <b>Project (Number/Name)</b><br>674132 / <i>AIM-9 Product Improvement</i> |                            |

**Schedule Details**

| <b>Events</b>                                                                                   | <b>Start</b>   |             | <b>End</b>     |             |
|-------------------------------------------------------------------------------------------------|----------------|-------------|----------------|-------------|
|                                                                                                 | <b>Quarter</b> | <b>Year</b> | <b>Quarter</b> | <b>Year</b> |
| T&E Milestones: Block II Development Test: v9.3 Operational Test (OT-C1)                        | 1              | 2014        | 2              | 2015        |
| T&E Milestones: Block II Development Test: v9.4 Development Test (DT-D1)                        | 1              | 2015        | 2              | 2017        |
| T&E Milestones: Block II Development Test: v9.4 Integrated Development/Operational Test (IT-D1) | 2              | 2017        | 1              | 2018        |
| T&E Milestones: Block II Development Test v9.4 Operational Test (OT-D1)                         | 1              | 2018        | 1              | 2019        |
| Production: Block II Contract Award: Low Rate Initial Production (LRIP 4)                       | 3              | 2014        | 3              | 2014        |
| Production: Block II Contract Award: Full Rate Production (FRP 1)                               | 4              | 2015        | 4              | 2015        |
| Production: Block II Contract Award: Full Rate Production (FRP 2)                               | 2              | 2016        | 2              | 2016        |
| Production: Block II Contract Award: Full Rate Production (FRP 3)                               | 2              | 2017        | 2              | 2017        |
| Production: Block II Contract Award: Full Rate Production (FRP 4)                               | 2              | 2018        | 2              | 2018        |
| Production: Block II Contract Award: Full Rate Production (FRP 5)                               | 2              | 2019        | 2              | 2019        |
| Production: Deliveries: Low Rate Initial Production Lot 12 / LRIP 2                             | 1              | 2014        | 4              | 2014        |
| Production: Deliveries: Low Rate Initial Production Lot 13 / LRIP 3                             | 4              | 2014        | 4              | 2015        |
| Production: Deliveries: Low Rate Initial Production Lot 14 / LRIP 4                             | 4              | 2015        | 4              | 2016        |
| Production: Deliveries: Full Rate Production Lot 15 / FRP 1                                     | 4              | 2016        | 4              | 2017        |
| Production: Deliveries: Full Rate Production Lot 16 / FRP 2                                     | 4              | 2017        | 4              | 2018        |
| Production: Deliveries: Full Rate Production Lot 17 / FRP 3                                     | 4              | 2018        | 4              | 2019        |
| Production: Deliveries: Full Rate Production Lot 18 / FRP 4                                     | 4              | 2019        | 4              | 2020        |