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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2016 Missile Defense Agency **Date:** February 2015

|   |   |
|---|---|
| <b>Appropriation/Budget Activity</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> |
|---|---|

| 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                      | 155.314     | 41.051  | 46.387  | 49.570       | -           | 49.570        | 50.533  | 51.363  | 52.217  | 54.247  | Continuing       | Continuing |
| MD03: <i>Joint Warfighter Support</i>      | 151.182     | 38.601  | 14.569  | 16.241       | -           | 16.241        | 16.405  | 16.580  | 16.811  | 17.441  | Continuing       | Continuing |
| MT03: <i>Joint Warfighter Support Test</i> | -           | -       | 29.134  | 31.149       | -           | 31.149        | 31.739  | 32.153  | 32.624  | 33.867  | Continuing       | Continuing |
| MD40: <i>Program-Wide Support</i>          | 4.132       | 2.450   | 2.684   | 2.180        | -           | 2.180         | 2.389   | 2.630   | 2.782   | 2.939   | Continuing       | Continuing |

**Program MDAP/MAIS Code:** 362

**Note**

In FY 2015, \$29.134 million of the Joint Warfighter Support cost will transfer from budget project MD03 to budget project MT03.

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

The Joint Warfighter Support Program (JWSP) is MDA's primary means for providing direct technical support to Combatant Commands (CCMDs), the Military Services and the Joint Staff on Ballistic Missile Defense System (BMDS) development, testing, and operational support. It enables delivery of BMDS capabilities to Warfighters and ensures their participation in the identification and development of new Ballistic Missile Defense (BMD) capabilities via the Warfighter Involvement Process (WIP). The JWSP allows the Warfighter and MDA to work together to identify gaps, seams, and needs in war fighting capability and enhance BMDS attributes by submitting modification and fielding requests. It also provides 24/7 BMD operational support to Warfighters worldwide. The program enables rapid response to Warfighter Requests for Information (RFIs) and Requests for Analyses (RFAs), which are especially critical to mission success in protecting U.S. forces and other defended assets during "Real World" threat events. The program supports improving products delivered to Warfighters through technical reviews and technical analyses supporting development of shot doctrine. The JWSP also enables the inclusion of both CCMD and MDA BMD objectives in CCMD/Joint Staff-sponsored wargames and exercises, which are used to sharpen and enhance joint BMD warfighting skills.

MD40 Program-Wide Support (PWS) consists of essential non-headquarters management efforts providing integrated and efficient support to the MDA functions and activities across the entire Ballistic Missile Defense System (BMDS).

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| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 42.619         | 46.387         | 52.619              | -                  | 52.619               |
| Current President's Budget                        | 41.051         | 46.387         | 49.570              | -                  | 49.570               |
| Total Adjustments                                 | -1.568         | -              | -3.049              | -                  | -3.049               |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | -0.904         | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -0.664         | -              |                     |                    |                      |
| • Other Adjustment                                | -              | -              | -3.049              | -                  | -3.049               |

**Change Summary Explanation**

FY 2014 adjustments due to high priority Missile Defense Agency (MDA) realignments.

FY 2016 adjustments reflect realignment to Department of Defense priorities.

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |                    |                |                |                     |   |                      |                |                |  | <b>Date:</b> February 2015 |                         |                   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     |                    |                |                |                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> |                      |                |                | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |                            |                         |                   |
| <b>COST (\$ in Millions)</b>   | <b>Prior Years</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b>  | <b>FY 2016 Total</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b>   | <b>FY 2020</b>             | <b>Cost To Complete</b> | <b>Total Cost</b> |
| MD03: <i>Joint Warfighter Support</i>  | 151.182            | 38.601         | 14.569         | 16.241              | -   | 16.241               | 16.405         | 16.580         | 16.811   | 17.441                     | Continuing              | Continuing        |
| Quantity of RDT&E Articles   | -                  | -              | -              | -                   | -   | -                    | -              | -              | -  | -                          |                         |                   |

**Note**

Funding in the All Prior Years column represents prior year total costs for active contracts, Military Interdepartmental Purchase Requests, and civilian salaries on the R-3. In FY 2015, the cost for Warfighter operational support and wargames and exercises will transfer from budget project MD03 to budget project MT03.

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

There are five primary functions in Joint Warfighter Support (MD03): (1) CCMD support, including United States Strategic Command (USSTRATCOM) and United States Northern Command (USNORTHCOM); (2) Joint Staff engagement; (3) Military Services engagement; (4) current operations support; and (5) Warfighter training support.

CCMD engagement entails: supporting the WIP; assisting Warfighters with the annual BMDS Prioritized Capabilities List (PCL) and Modification and Fielding Request List (MFRL); sharing information and knowledge with CCMDs to help develop common BMDS operational procedures; coordinating with USSTRATCOM regarding the Operations Forces Standing Committee (OFSC) and Departmental Corporate Boards (e.g., the Missile Defense Executive Board); supporting Assistants to the Director (ATDs) and Liaison Officers (LNOs) in communication with CCMD staffs on BMDS capabilities and deployments; supporting Joint Functional Component Command for Integrated Missile Defense (JFCC-IMD) integration efforts; and coordinating the CCMD inquiries into RFA/RFIs. In FY 2015, CCMD engagement activities supporting Warfighter operational support; Geographic Combatant Command (GCC) engagement, integration, and synchronization; MDA senior leadership engagement with GCCs; and wargames and exercise support will transfer from budget project MD03 to budget project MT03.

Joint Staff engagement support entails: facilitating and coordinating Joint Staff interactions with the MDA; responding to BMDS capability delivery process inquiries and transition and transfer actions from the Military Services; maintaining daily, strategic-level interfaces with the Joint Staff; providing critical information required to plan for fielding and operation of BMDS capabilities; and coordinating Joint Staff inquiries into RFA/RFIs.

Military Services engagement entails: facilitating and coordinating the Service Boards of Directors (BODs); supporting the BMDS capability delivery process and transition and transfer to the Military Services; establishing and updating annexes for transitioned and transitioning BMDS capabilities; maintaining daily, strategic-level interfaces with the Military Services to provide critical information required to plan for the delivery, fielding, and operation of Lead Service BMDS capabilities; and coordinating Military Service inquiries into RFA/RFIs.

The current operations support function entails: operating the MDA Operations Support Center (OSC) on a 24/7 basis; staffing and operating two MDA Operations Centers (MOCs) in VA and in AL five days per week; serving as the office of primary responsibility for MDA participation in the BMDS asset management (BAM) scheduling and execution process; collecting and reporting BMDS operational availability and readiness data; leading the MDA operations support task force to support real-world contingencies, crisis events, and exercises; and leading the staffing and processing of Warfighter RFA/RFIs.

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| Warfighter training support entails: providing technical and programmatic updates on BMD systems; providing Missile Defense Space Warning tool (MDST) support; coordinating Command and Control, Battle Management, and Communications (C2BMC) training; coordinating Distributed Multi-Echelon Training System (DMETS) and other BMD training; and developing the BMDS Handbook.  |   |  |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  |   | <b>FY 2014</b>   | <b>FY 2015</b> | <b>FY 2016</b> |
| <b>Title:</b> Warfighter Operational Support / Wargames and Exercises  |   | 26.227   | -              | -              |
| <b>Description:</b> N/A  |   | <b>Articles:</b>   | -              | -              |
| <b>FY 2014 Accomplishments:</b><br>CCMD engagement:<br>-Managed MDA and CCMD interface activities.<br>-Developed and updated the BMD portions of CCMD Operation Plans and Contingency Plans.<br>-Supported the BMDS Capability Delivery process and transition and transfer to the Military Services.<br>-Coordinated and integrated CCMD requirements into the BMDS Integrated Master Test Plan.<br>-Integrated and provided information to the Global Deployment Program Office.<br>-Synchronized MDA integrated fielding plans with Warfighter operational readiness and acceptance (OR&A) efforts.<br>-Served as liaison between internal MDA organizations and the JFCC-IMD across all functional areas (e.g. operations, plans, and resources) to facilitate GCC participation in the BMDS capability definition, design, development, integration, and delivery processes.<br>-Engaged in GCC interface and synchronized information regarding capabilities and security cooperation strategies.<br>-Supported the GCC ATDs/LNOs.<br>-Developed responses and coordinated actions and taskings, including RFIs on BMDS operations and programmatic inquiries.<br>-Conducted, coordinated, and participated in meetings and working groups in response to real-world events and associated MDA tasks.<br>-Planned and coordinated activities during real-world contingencies, including senior-level status briefings.<br>-Assisted with BMD planning, analysis, and activation of MDA assets for operational use.<br>-Provided surge support to the Huntsville MDA Operation Center (HMOC) during Operation DYNAMIC VIEW, enabling the HMOC to achieve 24/7 operations. Also provided surge support to the HMOC during the April/May period of interest.<br>-Supported multiple Flag Officer/General Officer and 0-6 level planning and execution engagements supporting Army-Navy/ Ground Transportable Radar Surveillance and Control-Series 2 (AN/TPY-2) deployments in the United States European Command (USEUCOM), United States Central Command (USCENTCOM), and United States Pacific Command (USPACOM) Areas of Responsibility (AORs).<br>-Supported over ten BMDS wargame events, including the capstone event, Nimble Titan 2014. This event was a JFCC-IMD sponsored campaign with interactive BMD simulation. It provided situational awareness to individuals responsible for the political |   |  |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|--|----------------|----------------|----------------|
| <p>ramifications and decisions surrounding BMD scenarios. MDA supported all events, developing multiple BMD scenarios with limited integrated air and missile defense (IAMD) involvement using International Simulation (I-Sim) to immerse participants in the scenario and provide a valuable learning experience.</p> <p>-Supported USNORTHCOM/USSTRATCOM BMD exercises, including Global Thunder/Vigilant Shield 14 (GT/VS-14). This event was a Tier 1 exercise to train and certified the staffs of USSTRATCOM, North American Aerospace Defense Command (NORAD)-USNORTHCOM (N-NC), and Canada Command in their Unified Command Plan (UCP) assigned nuclear command, control, and communications (NC3); homeland defense; and homeland security missions. MDA provided BMD modeling and simulation (M&amp;S) support to the GT/VS-14 Tier 1 activities. The MDA provided the simulation threat driver; Tactical Data Analysis and Connectivity System (TDACS); Open System Architecture Sensor Model for AN/TPY-2 and Sea-Based X-Band Radar; Discrete Event Simulation (DESIM) for Patriot, Terminal High Altitude Area Defense (THAAD), and Aegis; Ground-Based Midcourse Defense System Trainer (GST) simulations; and BMDs Integration and Test Center-4 lab for C2BMC.</p> <p>-Supported USEUCOM for Juniper Cobra 2014, an exercise that integrated U.S. and Host Nation command and control of coalition BMD forces where Warfighters exercised their shot doctrine and tactics, techniques, and procedures (TTPs). The MDA provided the simulation threat driver, TDACS, DESIM for AN/TPY-2, and Extended Air Defense Simulation for THAAD and Aegis for U.S. Army and Navy Forces in Europe to operate. MDA integrated two live Aegis BMD ships and, for the first time, the U.S. Army Patriot Reconfigurable Table Top Trainer.</p> <p>-Supported USPACOM BMD exercises, including the first MDA support to Key Resolve (KR). KR is an annual Tier 2, USPACOM directed, U.S. Combined Forces Command led, combined United States-Republic of Korea Field Training Exercise. Its primary objective is to assess the future command structure headquarters, staff, and combined components to complete initial operational capability certification and increase readiness. MDA provided BMD M&amp;S to the participating elements.</p> <p>-MDA provided subject matter expert support to the BMD operational information sharing working group to resolve issues related to sharing BMD data between the United States and Japan.</p> <p>-Supported USCENTCOM BMD exercises, including a first-time series named Arabian Gulf Shield (AGS). AGS occurs 3 times a year and is a United States Air Force Central Command (USAFCENT) led air and missile defense exercise including live and simulated air and BMD systems. AGS provides a venue for regional cooperation and interoperability between the USAFCENT Combined Air and Space Operations Center (CAOC) and Gulf Cooperation Council (GCC) nations, which include Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates. The MDA played a vital role in the three AGS exercises executed in FY 2014, providing the threat theater ballistic missile simulation scenario with space-based infrared early warning and AN/TPY-2 blue force representations supporting USAFCENT objectives and key milestones in the GCC Air Defense Liaison Team program. MDA aided completion of mission objectives, including developing shared procedures, improving United States-GCC interoperability, increasing defense posture of GCC air defenses, and building a cadre of experienced officers, all while honoring bilateral relations.</p> |                |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>   |   | <b>FY 2014</b>   | <b>FY 2015</b>         | <b>FY 2016</b>         |
| <p>- The MDA provided Models and Simulation (M&amp;S) support for 25 wargame and exercise events worldwide in FY 2014.</p> <p><b>FY 2015 Plans:</b><br/>-Beginning in FY2015, Joint Warfighter Support Test transfers from Budget Project MD03 to Budget Project MT03.</p> <p><b>FY 2016 Plans:</b><br/>N/A</p>   |   |  |                        |                        |
| <p><b>Title:</b> Strategic Warfighter Integration</p> <p><b>Description:</b> N/A</p> <p><b>FY 2014 Accomplishments:</b><br/>The MDA made significant strides in Warfighter support by increasing its focus on providing a strategic-level interface to USSTRATCOM, USNORTHCOM, the Joint Staff, OSD, and the Military Services to facilitate increased Warfighter involvement in the transition and deployment of future BMD capabilities. Several of the key Warfighter interface activities include:</p> <p>USSTRATCOM Engagement:<br/>-Supported the Warfighter Involvement Process (WIP) and other MDA Warfighter engagement efforts by assisting Warfighters to update the annual BMDS Prioritized Capabilities List (PCL) and Modification and Fielding Request List (MFRL) reflecting changes in Combatant Command and Military Service priorities for needed BMDS enhancements.<br/>-Shared BMDS operational information and knowledge to help CCMDs develop common BMDS operational procedures.<br/>-Planned and executed a quarterly tag-up between the MDA Deputy Director and the USSTRATCOM Deputy Commander regarding the Operations Forces Standing Committee (OSFC) and Departmental Corporate Boards (such as the Missile Defense Executive Board).<br/>-Coordinated the MDA process for responding to USSTRATCOM RFA/RFIs.<br/>-Provided reach-back support to the USSTRATCOM ATD in all USSTRATCOM BMDS-related activities requiring visibility by the MDA Director.<br/>-Supported Joint Functional Component Command Integrated Missile Defense (JFCC-IMD) Integration efforts.</p> <p>USNORTHCOM Engagement:<br/>-Assisted USNORTHCOM leadership in their efforts to broaden homeland defense planning to address the full range of USNORTHCOM threats and integration of allies into BMD. -Assisted in the plans of incorporating additional BMDS related homeland defense capabilities.<br/>-Assisted in planning to incorporate additional BMDS homeland defense capabilities.</p> |   | <p><b>Articles:</b></p> <p>12.374</p> <p>-</p>                         | <p>14.569</p> <p>-</p> | <p>16.241</p> <p>-</p> |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| <p>-Applied developmental and fielding expertise to support allied development of common operational procedures.</p> <p>-Coordinated the MDA process for responding to USNORTHCOM Requests for Analysis and Requests for Information (RFA/RFI).</p> <p>-Expanded Military Service cooperation and influence in acquisition and BMDS capability transfer decisions.</p> <p>-Supported BMD senior leader forums and asset management, test, training, and exercises.</p> <p>Joint Staff Engagement:</p> <p>-Facilitated/coordinated Joint Staff interactions with the MDA.</p> <p>-Provided answers about the BMDS capability delivery process and transition and transfer actions to the Military Services.</p> <p>-Provided the MDA's planner-level coordination for Joint Staff and interagency staff actions.</p> <p>-Maintained daily, strategic-level interfaces with the Joint Staff and provided critical information to plan for fielding and operation of BMDS capabilities.</p> <p>-Coordinated the MDA process for responding to Joint Staff Requests for Analysis and Requests for Information (RFA/RFI).</p> <p>Military Services Engagement:</p> <p>-Facilitated/coordinated Service Boards of Directors (BoDs).</p> <p>-Supported the BMDS capability delivery process and transition and transfer to the Military Services via program offices to establish transition annexes for BMDS capabilities.</p> <p>-Maintained daily, strategic-level interfaces with the Military Services and provided critical information to plan for the delivery, fielding, and operation of respective Lead Service BMDS capabilities.</p> <p>-Coordinated the MDA process for responding to Military Service RFA/RFIs.</p> <p>Current Operations Support</p> <p>-Staffed/operated the MDA Operations Support Center (OSC) 24/7 to control the configuration of the operational BMDS, coordinate the execution of daily scheduled BMDS activities through the Asset Management System, capture scheduled and unscheduled outage start and stop times through the BMDS Operational Readiness Reporting System (BORRS), monitored the "Health and Status" of BMDS assets deployed worldwide, and supported MDA senior leadership with prompt and accurate critical information reporting.</p> <p>-Took rapid corrective action to remediate system and support equipment faults, maximizing system availability and effectiveness against threat missiles.</p> <p>-Gathered, developed, fused, documented, and communicated BMDS operational data to all BMDS stakeholders.</p> <p>-Provided certification training BMDS watch officers (BWO), assistant BWOs, BMDS Safety Officers (BSO), and other Operations Support Center staff.</p> <p>-Supported MDA continuity of operations program planning and execution activities.</p> |                |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  |   | <b>FY 2014</b>   | <b>FY 2015</b> | <b>FY 2016</b> |
| <p>-Staffed and operated the two MDA Operations Centers (MOCs) in VA and in AL (HMOC) five days per week to provide MDA senior leadership with command, control, and communications capability for activities worldwide.</p> <p>-Served as the fusion center for MDA's Warfighter Strategic Integration efforts supporting OSD, Joint Staff, CCMDs, and Military Services.</p> <p>-Served as the office of primary responsibility for MDA participation in the BAM Process defined by USSTRATCOM.</p> <p>-Developed and maintained the integrated scheduling tool, information technology infrastructure, and tailored applications which facilitate BMDS planning, scheduling, and execution management supporting Homeland and Theater/Regional BMDS.</p> <p>-Coordinated with CCMDs to develop the BMDS Annual Plan, BMDS operating schedules, and synchronized BMDS execution schedules.</p> <p>-Published Asset Management user and system administrator guides and developed and conducted Asset Management training courses.</p> <p>-Coordinated and aligned BMDS scheduled maintenance to maximize operational and developmental availability.</p> <p>-Collected and reported BMDS operational availability and readiness data through the network-based BMDS Operational Readiness Reporting System (BORRS).</p> <p>-Led the MDA Operations Support Planning Team (OSPT), an MDA-wide task force supporting real-world contingencies, crisis events, and exercises.</p> <p>-Led the staffing and processing of Warfighter Requests for Analysis/Requests for Information (RFA/RFI)s.</p> <p><b>Warfighter Training Support</b></p> <p>-Provided technical and programmatic updates on BMD systems supporting Warfighter training.</p> <p>-Provided Missile Defense Space Warning tool (MDST) support for exercises and training for CCMDs and Military Services (up to 24/7).</p> <p>-Coordinated C2BMC, Distributed Multi-Echelon Training System (DMETS), and other BMD training with the Warfighter through the USSTRATCOM, Joint Staff (J-7), and MDA co-chaired BMD Training and Education Working Group.</p> <p>-Developed and published the BMDS Handbook to aid Warfighter understanding of the capabilities and limitations of the fielded BMDS.</p> <p><b>FY 2015 Plans:</b></p> <p>The MDA will continue to make significant strides in Warfighter support by focusing on providing a strategic-level interface to USSTRATCOM, USNORTHCOM, the Joint Staff, OSD, and Military Services to increase Warfighter involvement in the transition and deployment of future BMD capabilities. Several of the key Warfighter interface activities include:</p> <p>USSTRATCOM Engagement:</p> |   |  |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| <p>-Support the Warfighter Involvement Process (WIP) and other MDA Warfighter engagement efforts by assisting Warfighters to update the annual BMDS Prioritized Capabilities List (PCL) and Modification and Fielding Request List (MFRL) reflecting changes in Combatant Command and Military Service priorities for needed BMDS enhancements.</p> <p>-Share BMDS operational information / educate CCMD's in development of common BMDS operational procedures.</p> <p>-Plan and execute a quarterly tag-up between the MDA Deputy Director and the USSTRATCOM Deputy Commander regarding the Operations Forces Standing Committee (OSFC) and Departmental Corporate Boards (such as the Missile Defense Executive Board). Coordinate the MDA process for responding to USSTRATCOM Requests for Analysis and Requests for Information (RFA/RFI)s.</p> <p>-Provide reach-back support to the USSTRATCOM Assistant to the Director (ATD) in all USSTRATCOM BMDS-related activities requiring visibility by the MDA Director.</p> <p>-Support Joint Functional Component Command Integrated Missile Defense (JFCC IMD) Integration efforts.</p> <p>USNORTHCOM Engagement:</p> <p>-Assist USNORTHCOM leadership in their efforts to broaden homeland defense planning to address the full range of USNORTHCOM threats and integration of allies into BMD.</p> <p>-Assist in planning to incorporate additional BMDS homeland defense capabilities.</p> <p>-Leverage developmental and fielding expertise to support allied development of common operational procedures.</p> <p>-Coordinate the MDA process for responding to USNORTHCOM Requests for Analysis and Requests for Information (RFA/RFI)s.</p> <p>-Expand Military Service cooperation and influence in acquisition and BMDS capability transfer decisions.</p> <p>-Support BMD senior leader forums, asset management, and training, and exercises.</p> <p>Joint Staff Engagement:</p> <p>-Facilitate/coordinate Joint Staff interactions with the MDA.</p> <p>-Provide answers on the BMDS capability delivery process and transition and transfer actions to the Military Services.</p> <p>-Provide the MDA's planner-level coordination for Joint Staff and interagency staff actions.</p> <p>-Maintain daily, strategic-level interfaces with the Joint Staff and provide critical information required to plan for the fielding, and operation of BMDS capabilities.</p> <p>-Coordinate the MDA process for responding to Joint Staff Requests for Analysis and Requests for Information (RFA/RFI).</p> <p>Military Services Engagement:</p> <p>-Facilitate/coordinate Service Boards of Directors (BoDs)</p> <p>-Support the BMDS capability delivery process and transition and transfer to the Military Services via program offices to establish transition annexes for BMDS capabilities.</p> |                |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

|  | FY 2014 | FY 2015 | FY 2016 |
|--|---------|---------|---------|
| <p>-Maintain daily, strategic-level interfaces with the Military Services and provide critical information required to plan for the delivery, fielding, and operation of respective Lead Service BMDS capabilities.</p> <p>-Coordinate the MDA process for responding to Military Service RFA/RFIs.</p> <p>Current Operations Support</p> <p>-Staff/operate the MDA Operations Support Center (OSC) 24/7 to control the configuration of the operational BMDS, coordinate the execution of daily scheduled BMDS activities through the Asset Management System; capture scheduled and unscheduled outage start and stop times through the BMDS Operational Readiness Reporting System; monitor the "Health and Status" of BMDS assets deployed worldwide; support MDA senior leadership with prompt and accurate critical information reporting.</p> <p>-Take rapid corrective action to remediate system and support equipment faults, maximizing system availability and effectiveness against threat missiles.</p> <p>-Gather, develop, fuse, document, and communicate BMDS operational data to all BMDS stakeholders.</p> <p>-Provide certification training to BWOs, ABWOs, BSOs, and other Operations Support Center staff.</p> <p>-Support MDA continuity of operations program planning and execution activities.</p> <p>-Staff and operate MDA Operations Centers (MOC) in VA and in AL, (HMOC), one each location, five days per week to provide MDA Senior Leadership with Agency command, control, and communications capability for activities worldwide.</p> <p>-Serve as the fusion center for MDA's Warfighter Strategic Integration efforts supporting OSD, Joint Staff, CCMDs, and Military Services.</p> <p>-Serve as the office of primary responsibility for MDA participation in the BMDS Asset Management (BAM) Process defined by USSTRATCOM.</p> <p>-Develop and maintain the Integrated Scheduling Tool, information technology infrastructure, and tailored applications which facilitate BMDS planning, scheduling, and execution management supporting homeland and theater/regional BMDS.</p> <p>-Coordinate with CCMDs to develop the BMDS Annual Plan, BMDS operating schedules, and synchronized BMDS execution schedules.</p> <p>-Publish asset management user and system administrator guides and develop and conduct asset management training courses.</p> <p>-Coordinate and align BMDS scheduled maintenance to maximize operational and developmental availability.</p> <p>-Collect and report BMDS operational availability and readiness data through the network-based BMDS Operational Readiness Reporting System (BORRS)</p> <p>-Lead the MDA Operations Support Planning Team (OSPT), an MDA-wide task force supporting real-world contingencies, crisis events, and exercises.</p> <p>-Lead the staffing and processing of Warfighter Requests for Analysis/Requests for Information (RFA/RFI)s.</p> <p>Warfighter Training Support</p> |         |         |         |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|--|----------------|----------------|----------------|
| <p>-Provide technical and programmatic updates on BMD systems supporting Warfighter training. Provide Missile Defense Space Warning tool (MDST) support for exercises and training for CCMDs and Military Services (up to 24/7).</p> <p>-Coordinate C2BMC, Distributed Multi-Echelon Training System (DMETS), and other BMD training with the Warfighter through the USSTRATCOM, Joint Staff (J-7), and MDA co-chaired BMD Training and Education Working Group.</p> <p>-Develop and publish the BMDS Handbook to aid Warfighter understanding of the capabilities and limitations of the fielded BMDS</p> <p><b>FY 2016 Plans:</b><br/>The MDA will provide Warfighter support by increasing its focus on strategic-level interface to USSTRATCOM, USNORTHCOM, the Joint Staff, OSD, and Military Services to increase Warfighter involvement in the transition and deployment of future BMD capabilities. Several of the key Warfighter interface activities include:</p> <p><b>USSTRATCOM Engagement:</b></p> <ul style="list-style-type: none"> <li>-Support the Warfighter Involvement Process (WIP) and other MDA Warfighter engagement efforts by assisting Warfighters in their update to the annual BMDS Prioritized Capabilities List (PCL) and Modification and Fielding Request List (MFRL) reflecting changes in Combatant Command and Service priorities for needed BMDS enhancements to address full range of CCMD needs.</li> <li>-Share BMDS operational information / educate CCMD's in development of common BMDS operational procedures.</li> <li>-Plan and execute quarterly tag-ups between MDA Deputy Director and USSTRATCOM Deputy Commander regarding the Operations Forces Standing Committee (OSFC) and Departmental Corporate Boards (such as the Missile Defense Executive Board).</li> <li>-Coordinate DA process for responding to USSTRATCOM Requests for Analysis and Requests for Information (RFA/RFI).</li> <li>-Provide reach-back support to the USSTRATCOM ATD in all USSTRATCOM BMDS related activities requiring visibility by the MDA Director. Support Joint Functional Component Command Integrated Missile Defense (JFCC IMD) Integration efforts.</li> </ul> <p><b>USNORTHCOM Engagement:</b></p> <ul style="list-style-type: none"> <li>-Assist USNORTHCOM leadership in their efforts to broaden homeland defense planning to address the full range of USNORTHCOM threats and integration of allies into BMD.</li> <li>-Assist in planning to incorporate additional BMDS homeland defense capabilities.</li> <li>-Leverage developmental and fielding expertise to support allied development of common operational procedures.</li> <li>-Coordinate the MDA process for responding to USNORTHCOM Requests for Analysis and Requests for Information (RFA/RFI)s.</li> <li>-Expand Military Service cooperation and influence in acquisition and BMDS capability transfer decisions.</li> <li>-Support BMD senior leader forums as well as asset management, test, training, and exercises.</li> </ul> <p><b>Joint Staff Engagement:</b></p> <ul style="list-style-type: none"> <li>-Facilitate/coordinate Joint Staff interactions with the MDA.</li> </ul> |                |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency   |   | <b>Date:</b> February 2015   |                |                |
| <b>Appropriation/Budget Activity</b><br>0400 / 4   | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  |   | <b>FY 2014</b>   | <b>FY 2015</b> | <b>FY 2016</b> |
| <p>-Provide answers to the BMDS capability delivery process and transition and transfer actions to the Military Services.</p> <p>-Provide the MDA's planner-level coordination for Joint Staff and interagency staff actions.</p> <p>-Maintain daily, strategic-level interfaces with the Joint Staff and provide critical information required to plan for the fielding, and operation of the BMDS.</p> <p>-Coordinate the MDA process for responding to Joint Staff Requests for Analysis and Requests for Information (RFA/RFI)s.</p> <p>Military Services Engagement:</p> <p>-Facilitate/coordinate Service Boards of Directors (BoDs)</p> <p>-Support the BMDS capability delivery process and transition and transfer to the Military Services via program offices to establish transition annexes for BMDS capabilities.</p> <p>-Maintain daily, strategic-level interfaces with the Military Services and provide critical information required to plan for the delivery, fielding, and operation of respective Lead Service BMDS capabilities.</p> <p>-Coordinate MDA process for responding to Military Service RFA/RFIs.</p> <p>Current Operations Support:</p> <p>-Operate the MDA Operations Support Center (OSC) 24/7 to control configuration of the operational BMDS, coordinate execution of daily scheduled BMDS activities through the Asset Management System; capture scheduled and unscheduled outage start and stop times through the BMDS Operational Readiness Reporting System; monitor the "Health and Status" of BMDS assets deployed worldwide; support MDA Senior Leadership with prompt and accurate Critical Information Reporting.</p> <p>-Take rapid corrective action to remediate system and support equipment faults, maximizing system availability and effectiveness against threat missiles.</p> <p>-Gather, develop, fuse, document, and communicate BMDS operational data to all BMDS stakeholders.</p> <p>-Provide certification training to BMDS watch officers (BWO), assistant BWOs, BMDS Safety Officers (BSO), and other Operations Support Center staff.</p> <p>-Support MDA continuity of operations program planning and execution activities.</p> <p>-Staff and operate the two MDA Operations Centers (MOC) in VA and in AL, (HMOC), one each location, five days per week to provide MDA senior leadership with command, control, and communications for activities worldwide.</p> <p>-Serve as the fusion center for MDA's Warfighter Strategic Integration efforts in support of OSD, Joint Staff, CCMDs, and Military Services.</p> <p>-Serve as the office of primary responsibility for MDA participation in the BMDS Asset Management (BAM) Process defined by USSTRATCOM.</p> <p>-Maintain and improve the Integrated Scheduling Tool, information technology infrastructure, and tailored applications which facilitate BMDS planning, scheduling, and execution management supporting Homeland and Theater/regional BMDS.</p> |   |  |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| -Coordinate with CCMDs to develop the BMDS Annual Plan, coordinate BMDS operating schedules, and synchronize BMDS execution schedules.<br>-Publish Asset Management user and system administrator guides and develop and conduct Asset Management training courses.<br>-Coordinate and align BMDS scheduled maintenance to maximize operational and developmental availability.<br>-Collect and report BMDS operational availability and readiness data through the network-based BMDS Operational Readiness Reporting System (BORRS).<br>-Lead MDA Operations Support Planning Team (OSPT), an MDA-wide task force supporting real-world contingencies, crisis events, and exercises.<br>-Lead staffing and processing of Warfighter Requests for Analysis/Requests for Information (RFA/RFI)s.<br><br>Warfighter Training Support:<br>-Provide technical and programmatic updates on BMD systems supporting Warfighter training.<br>-Provide Missile Defense Space Warning tool (MDST) support for exercises and training for CCMDs and Military Services (up to 24/7).<br>-Coordinate C2BMC, Distributed Multi-Echelon Training System (DMETS) with the Warfighter.<br>-Coordinate BMD training issues with USSTRATCOM, Joint Staff (J-7), and MDA co-chaired BMD Training and Education Working Group.<br>-Develop and publish the BMDS Handbook to aid Warfighter understanding of the capabilities and limitations of the fielded BMDS. |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>   | 38.601         | 14.569         | 16.241         |

| <b>C. Other Program Funding Summary (\$ in Millions)</b>               |                |                |                     |                    |                      |                |                |                |                |                         |                   |
|--|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| <b>Line Item</b>   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b> | <b>FY 2020</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
| • 0603882C: <i>Ballistic Missile Defense Midcourse Defense Segment</i> | 1,064.445      | 873.923        | 1,284.891           | -                  | 1,284.891            | 936.425        | 803.392        | 903.539        | 912.890        | Continuing              | Continuing        |
| • 0603884C: <i>Ballistic Missile Defense Sensors Enabling Programs</i> | 340.391        | 270.901        | 233.588             | -                  | 233.588              | 228.437        | 142.363        | 140.740        | 141.733        | Continuing              | Continuing        |
| • 0603890C: <i>BMD</i>   | 368.965        | 401.971        | 409.088             | -                  | 409.088              | 423.092        | 417.831        | 420.104        | 433.604        | Continuing              | Continuing        |
| • 0603895C: <i>Ballistic Missile Defense System Space Programs</i>     | 6.412          | 6.389          | 23.289              | -                  | 23.289               | 21.433         | 16.108         | 11.933         | 11.952         | Continuing              | Continuing        |

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|--|--|--|--|---|--|--|--|--|----------------------------|--|--|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |  |  |  |   |  |  |  |  | <b>Date:</b> February 2015 |  |  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> |  |  |  | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |                            |  |  |

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

| Line Item   | FY 2014 | FY 2015 | FY 2016 | FY 2016 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To    |            |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|------------|
|   |         |         | Base    | OCO     | Total   |         |         |         |         | Complete   | Total Cost |
| • 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management &amp; Communication</i> | 390.207 | 428.277 | 450.085 | -       | 450.085 | 461.759 | 423.843 | 442.926 | 460.112 | Continuing | Continuing |
| • 0603904C: <i>Missile Defense Integration and Operations Center (MDIOC)</i>                            | 50.271  | 58.503  | 49.211  | -       | 49.211  | 58.074  | 53.655  | 55.194  | 57.162  | Continuing | Continuing |
| • 0901598C: <i>Management HQ - MDA</i>  | 34.712  | 35.598  | 35.871  | -       | 35.871  | 35.187  | 34.509  | 33.466  | 33.992  | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

Missile Defense Agency will continue to enable effective delivery of Ballistic Missile Defense System capabilities to the Warfighter by ensuring their participation in the identification and development of new capabilities via the Warfighter Involvement Process.

**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |
|--|---|--|

| Product Development (\$ in Millions) |                        |                                |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--------------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                   | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| <b>Subtotal</b>                      |                        |                                | -           | -       |            | -       |            | -            |            | -           |            | -             | -                | -          | -                        |

**Remarks**  
N/A

| Support (\$ in Millions)  |                        |   |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|---|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item  | Contract Method & Type | Performing Activity & Location  | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| Warfighter Operational Support / Wargames and Exercises - Civilian Salaries/Operations Sustainment  | Allot                  | MDA Headquarters : Colorado Springs, Huntsville, NCR  | 7.411       | 1.993   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Warfighter Operational Support / Wargames and Exercises - Combatant Commanders (COCOM) Support      | C/CPAF                 | Joint National Integration Research & Development Center (JRDC)/ MIPR : Colorado Springs, Huntsville, NCR | 85.900      | 14.254  |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Warfighter Operational Support / Wargames and Exercises - Combatant Commanders (COCOM) Support A&AS | C/CPFF                 | Missile Defense Agency Engineering & Support Services (MiDAESS) : Colorado Springs, Huntsville, NCR       | 7.884       | 1.281   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Warfighter Operational Support / Wargames and Exercises - Government Travel & Training              | Allot                  | MDA Headquarters : Colorado Springs, Huntsville, NCR  | 0.350       | 0.795   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Warfighter Operational Support / Wargames and Exercises - Support to MDA Leadership A&AS            | C/CPFF                 | MiDAESS : Colorado Springs, Huntsville, NCR   | 5.484       | 3.755   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Missile Defense Agency         |                        |   |             |  |            |         |            |                                 |            |             |            | Date: February 2015 |                  |            |                          |
|--|------------------------|---|-------------|--|------------|---------|------------|---------------------------------|------------|-------------|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity  |                        |   |             | R-1 Program Element (Number/Name)                                |            |         |            | Project (Number/Name)           |            |             |            |                     |                  |            |                          |
| 0400 / 4   |                        |   |             | PE 0603898C / Ballistic Missile Defense Joint Warfighter Support |            |         |            | MD03 / Joint Warfighter Support |            |             |            |                     |                  |            |                          |
| Support (\$ in Millions)   |                        |   |             | FY 2014  |            | FY 2015 |            | FY 2016 Base                    |            | FY 2016 OCO |            | FY 2016 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 |
| Warfighter Operational Support / Wargames and Exercises - Wargame Support        | C/CPAF                 | JRDC/MIPR : Colorado Springs                | 1.278       | 4.149  |            | -       |            | -                               |            | -           |            | -                   | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Administrative HR A&AS                        | C/CPFF                 | MiDAESS : Colorado Springs                  | 0.567       | 0.350  |            | 0.300   | Oct 2014   | 0.270                           | Oct 2015   | -           |            | 0.270               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Asset Management Server Maintenance           | C/CPAF                 | JRDC : Colorado Springs, Huntsville         | 1.017       | 0.622  |            | 0.800   | Nov 2014   | 0.800                           | Nov 2015   | -           |            | 0.800               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - BMDS Training and Education/ MDST             | C/CPAF                 | JRDC : Colorado Springs                     | 11.239      | 0.497  |            | 1.801   | Nov 2014   | 2.450                           | Nov 2015   | -           |            | 2.450               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Civilian Salaries/Operations Sustainment      | Allot                  | MDA : Colorado Springs/Huntsville, NCR      | 15.508      | 3.460  |            | 4.300   | Oct 2014   | 4.280                           | Oct 2015   | -           |            | 4.280               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Current Operations                            | C/CPAF                 | JRDC : Colorado Springs                     | 5.968       | 3.000  |            | 3.100   | Nov 2014   | 3.105                           | Nov 2015   | -           |            | 3.105               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Current Operations/IA A&AS                    | C/CPFF                 | MiDAESS : Colorado Springs, Huntsville, NCR | 3.548       | 1.910  |            | 2.850   | Oct 2014   | 3.661                           | Oct 2015   | -           |            | 3.661               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Joint Staff and Service Interface A&AS        | C/CPFF                 | MiDAESS : NCR                               | 3.548       | 1.910  |            | 0.950   | Oct 2014   | 1.200                           | Oct 2015   | -           |            | 1.200               | Continuing       | Continuing | Continuing               |
| Strategic Warfighter Integration - Training and Education to the Warfighter A&AS | C/CPFF                 | MiDAESS : Colorado Springs                  | 1.104       | 0.450  |            | 0.300   | Oct 2014   | 0.250                           | Oct 2015   | -           |            | 0.250               | Continuing       | Continuing | Continuing               |

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |
|--|---|--|

| <b>Support (\$ in Millions)</b>                        |                        |   |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--|------------------------|---|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location          | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| Strategic Warfighter Integration - Travel and Training | Allot                  | MDA : Colorado Springs, Huntsville, NCR | 0.376       | 0.175   |            | 0.168   | Oct 2014   | 0.225        | Oct 2015   | -           |            | 0.225         | Continuing       | Continuing | Continuing               |
| <b>Subtotal</b>  |                        |   | 151.182     | 38.601  |            | 14.569  |            | 16.241       |            | -           |            | 16.241        | -                | -          | -                        |

**Remarks**  
N/A

| <b>Test and Evaluation (\$ in Millions)</b> |                        |                                |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| <b>Subtotal</b>                             |                        |                                | -           | -       |            | -       |            | -            |            | -           |            | -             | -                | -          | -                        |

**Remarks**  
N/A

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

**Remarks**  
N/A

|                            | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 151.182     | 38.601  | 14.569  | 16.241       | -           | 16.241        | -                | -          | -                        |

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |  |
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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |
|--|---|--|

|  | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
|--|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|

**Remarks**  
Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests, and civilian salaries on the R-3.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |  |
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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |
|--|---|--|

Significant Event Complete ▲    Milestone Decision Complete ★    Element Test Complete ◆    System Level Test Complete ●    Complete Activity ✦  
 Significant Event Planned △    Milestone Decision Planned ☆    Element Test Planned ◇    System Level Test Planned ○    Planned Activity ✧

|   | 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 |
| NIMBLE TITAN Event 1 Wargame Event - 2014                   | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| VIGILANT SHIELD 14 Exercise Planning - 2014                 | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ULCHI FREEDOM GUARD 14 Event - 2014                         | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 14- 2014 | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 14 Exercise Event - 2014                   | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise USCENTCOM Event 1 - 2014   | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| RAMSTEIN ALLIANCE EXERCISE - 2014                           | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE Planning Exercise - 2014                        | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL THUNDER 15 Exercise Planning - 2014                  | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EAGLE RESOLVE Exercise 14 - 2014                            | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Event - 2014                     | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 1 - 2014         | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD Exercise Event 1 - 2014                 | ▲       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| BMDS WARGAME 2015 Event - 2014                              |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEEN EDGE 14 Exercise Event - 2014                          |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 2 - 2014         |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2014                    |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD Exercise Event 2 - 2014                 |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE FIRE Exercise Event 2 - 2014                         |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE FIRE Exercise Event 3- 2014                          |         | ▲ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 3 - 2014         |         |   | ▲ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL DEFENDER Exercise 06 Part 1                          |         |   | ▲ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE TITAN Event 2 Wargame Event - 2014                   |         |   | ▲ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JUNIPER COBRA 14 - 2014                                     |         |   |   | ▲ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD Exercise Event 3- 2014                  |         |   |   | ▲ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| NIMBLE TITAN Event 1Wargame Event - 2014                    | 1       | 2014 | 1       | 2014 |
| VIGILANT SHIELD 14 Exercise Planning - 2014                 | 1       | 2014 | 1       | 2014 |
| ULCHI FREEDOM GUARD 14 Event - 2014                         | 1       | 2014 | 1       | 2014 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 14- 2014 | 1       | 2014 | 1       | 2014 |
| GLOBAL LIGHTNING 14 Exercise Event - 2014                   | 1       | 2014 | 1       | 2014 |
| AIR and MISSILE DEFENSE Exercise USCENTCOM Event 1 - 2014   | 1       | 2014 | 1       | 2014 |
| RAMSTEIN ALLIANCE EXERCISE - 2014                           | 1       | 2014 | 1       | 2014 |
| KEY RESOLVE Planning Exercise - 2014                        | 1       | 2014 | 1       | 2014 |
| GLOBAL THUNDER 15 Exercise Planning - 2014                  | 1       | 2014 | 1       | 2014 |
| EAGLE RESOLVE Exercise 14 - 2014                            | 1       | 2014 | 1       | 2014 |
| MISSILE DEFENSE CONFERENCE Event - 2014                     | 1       | 2014 | 1       | 2014 |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 1 - 2014         | 1       | 2014 | 1       | 2014 |
| ARABIAN GULF SHIELD Exercise Event 1 - 2014                 | 1       | 2014 | 1       | 2014 |
| BMDS WARGAME 2015 Event - 2014                              | 2       | 2014 | 2       | 2014 |
| KEEN EDGE 14 Exercise Event - 2014                          | 2       | 2014 | 2       | 2014 |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 2 - 2014         | 2       | 2014 | 2       | 2014 |
| FLEET SYNTHETIC TRAINING Exercise - 2014                    | 2       | 2014 | 2       | 2014 |
| ARABIAN GULF SHIELD Exercise Event 2 - 2014                 | 2       | 2014 | 2       | 2014 |
| NIMBLE FIRE Exercise Event 2 - 2014                         | 2       | 2014 | 2       | 2014 |
| NIMBLE FIRE Exercise Event 3- 2014                          | 2       | 2014 | 2       | 2014 |
| JOINT AIR DEFENSE USCENTCOM Exercise Event 3 - 2014         | 3       | 2014 | 3       | 2014 |
| GLOBAL DEFENDER Exercise 06 Part 1                          | 3       | 2014 | 3       | 2014 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD03 / <i>Joint Warfighter Support</i> |
|--|---|--|

| Events                                     | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| NIMBLE TITAN Event 2 Wargame Event - 2014  | 3       | 2014 | 3       | 2014 |
| JUNIPER COBRA 14 - 2014                    | 4       | 2014 | 4       | 2014 |
| ARABIAN GULF SHIELD Exercise Event 3- 2014 | 4       | 2014 | 4       | 2014 |

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|--|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|---|----------------------------|-------------------------|-------------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |                    |                |                |                     |   |                      |                |                |   | <b>Date:</b> February 2015 |                         |                   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     |                    |                |                |                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> |                      |                |                | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |                            |                         |                   |
| <b>COST (\$ in Millions)</b>   | <b>Prior Years</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b>  | <b>FY 2016 Total</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b>  | <b>FY 2020</b>             | <b>Cost To Complete</b> | <b>Total Cost</b> |
| MT03: <i>Joint Warfighter Support Test</i>   | -                  | -              | 29.134         | 31.149              | -   | 31.149               | 31.739         | 32.153         | 32.624  | 33.867                     | Continuing              | Continuing        |
| Quantity of RDT&E Articles   | -                  | -              | -              | -                   | -   | -                    | -              | -              | -   | -                          |                         |                   |

**Note**

In FY 2015, the cost for Joint Warfighter Support Test will transfer from budget project MD03 to budget project MT03.

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

Joint Warfighter Support Test (MT03) is comprised of two primary responsibilities: wargames and exercises and warfighter operational support.

Wargames and exercises:

- Support the Warfighter to plan and conduct worldwide wargames and exercises supporting BMDS development and fielding.
- Enable the Warfighter to define, test, deploy, and employ new missile defense capabilities.
- Support JFCC-IMD BMDS table top exercises to facilitate the global missile defense capability and to refine the European capability concept of operations through low-fidelity demonstration M&S.
- Examine current and future BMDS operational capabilities for Geographic (i.e., USCENTCOM, USEUCOM, and USPACOM) and Strategic (i.e., USNORTHCOM and USSTRATCOM) CCMDs.
- Complete test planning for BMDS events as shown in the Exhibit R-4 schedule.

Warfighter operational support (program planning and operations):

- Prepare MDA senior leadership for engagements with the GCCs by providing logistical support and developing briefings for the GCC ATDs and MDA Director.
- Interface with the GCCs on BMD operational issues by providing planning and analysis support and capturing/transmitting GCC RFA/RFIs.
- Support GCC contingency activation planning for rea-world contingencies and theater security cooperation programs by supervising the activation of MDA assets to use in the operational BMDS.
- Aid GCC participation in BMDS capability definition, design, development, integration, and delivery processes through the WIP to synchronize capability delivery with operational readiness and acceptance.
- Provide resource management and administration of MT03 personnel and funding.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

|   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| <b>Title:</b> Wargames and Exercises  | -              | 21.699         | 24.059         |
| <b>Articles:</b>  | -              | -              | -              |
| <b>Description:</b> Beginning in FY2015, Joint Warfighter Support Test transfers from Budget Project MD03 to Budget Project MT03. |                |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|--|----------------|----------------|----------------|
| <p><b><i>FY 2014 Accomplishments:</i></b><br/>N/A</p> <p><b><i>FY 2015 Plans:</i></b><br/>-Beginning in FY2015, Joint Warfighter Support Test transfers from Budget Project MD03 to Budget Project MT03.</p> <p>-The decrease of \$4.5 million from FY 2014 (executed in MD03 budget project) is due to changes in the Combatant Command (COCOM) wargame and exercise schedule to create an executable program.</p> <p>The MDA will continue to make significant strides in Warfighter operational support by increasing its focus on providing operational-level interface to the GCCs and increasing Warfighter participation in development of future missile defense capabilities.</p> <p>Several of the key Warfighter interface activities include:</p> <p>USEUCOM Engagement:<br/>-In coordination with USEUCOM, continue planning activities to support the European Phased Adaptive Approach to provide a full range of capabilities to address all threats.<br/>-Share operational information and knowledge to help allies develop common operational procedures.<br/>-In coordination with MDA program element support, assist in planning and execution activities for USEUCOM's non-NATO partners.<br/>-Support BMD training, wargames, and exercises with NATO partners.<br/>-Provide reach-back support to the USEUCOM ATD and LNO in USEUCOM activities requiring visibility by the MDA Director and DT.<br/>-In coordination with MDA Global Deployment Program Office, plan and execute activities for deployment of BMDS assets and components in the USEUCOM AOR.<br/>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USEUCOM Deputy Commander at USEUCOM HQ.<br/>-Plan and execute quarterly tag-ups between the MDA and the USEUCOM J-3.</p> <p>USCENTCOM Engagement:<br/>-Assist CCMD leadership to develop a regional partner data sharing system supporting USCENTCOM regional IAMD architecture development.<br/>-Support all potential BMDS Foreign Military Sale (FMS) activities in the USCENTCOM AOR.</p> |                |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|--|----------------|----------------|----------------|
| <p>-Support MDA leadership and the USCENTCOM ATD and LNO in GCC strategic cooperation forums.</p> <p>-Provide reach-back support to the USCENTCOM ATD and LNO in USCENTCOM activities requiring visibility by the MDA Director and DT.</p> <p>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USCENTCOM Deputy Commander at USCENTCOM HQ.</p> <p>-Plan and execute quarterly tag-ups between the MDA and the USCENTCOM J-3.</p> <p>-Support USCENTCOM wargames and exercises.</p> <p>USPACOM Engagement:</p> <p>-Assist USPACOM leadership to broaden Phased Adaptive Approach planning to address a full range of threats and integration of allies into the BMDS.</p> <p>-Assist in the planning and execution of incorporating an additional AN/TPY-2 in the USPACOM AOR.</p> <p>-Assist with the development, planning, procurement, and installation of a long-range discrimination radar for the USPACOM AOR.</p> <p>-Provide reach-back support to the USPACOM ATD and LNO in USPACOM activities requiring visibility by the MDA Director and DT.</p> <p>-Share operational information and knowledge and help allies develop common operational procedures.</p> <p>-Support BMD test, training, wargames, and exercises.</p> <p>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USPACOM Deputy Commander at USPACOM HQ.</p> <p>-Plan and execute a quarterly tag-up between the MDA and the USPACOM J-3.</p> <p><b>FY 2016 Plans:</b></p> <p>-The increase of \$2.3 million from FY 2015 to FY 2016 is due to increased Combatant Command (COCOM) wargame and exercise scheduling.</p> <p>The MDA will continue to focus on providing operational-level interfaces to the GCCs and increasing Warfighter participation to develop future missile defense capabilities. Several of the key Warfighter interface activities include:</p> <p>USEUCOM Engagement:</p> <p>-In coordination with USEUCOM, continue planning activities for the European Phased Adaptive Approach to provide a full range of capabilities to address all threats.</p> <p>-Share operational information and knowledge and help allies develop common operational procedures.</p> <p>-In coordination with MDA program elements, assist in planning and execution activities supporting USEUCOM's non-NATO partners.</p> |                |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency   |   | <b>Date:</b> February 2015  |                |                |
| <b>Appropriation/Budget Activity</b><br>0400 / 4   | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  |   | <b>FY 2014</b>  | <b>FY 2015</b> | <b>FY 2016</b> |
| <ul style="list-style-type: none"> <li>-Support BMD training, wargames, and exercises with NATO partners.</li> <li>-Provide reach-back support to the USEUCOM ATD and LNO in USEUCOM activities requiring visibility by the MDA Director and DT.</li> <li>-In coordination with MDA Global Deployment Program Office, plan and execute activities required for deployment of BMDS assets and components in the USEUCOM AOR.</li> <li>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USEUCOM Deputy Commander at USEUCOM HQ.</li> <li>-Plan and execute quarterly tag-ups between MDA and USEUCOM J-3.</li> </ul> <p>USCENTCOM Engagement:</p> <ul style="list-style-type: none"> <li>-Assist CCMC leadership to develop a regional partner data sharing system supporting USCENTCOM regional IAMD architecture development.</li> <li>-Support all potential BMDS FMS activities in the USCENTCOM AOR.</li> <li>-Provide reach-back support to the USCENTCOM ATD and LNO in USCENTCOM activities requiring visibility by the MDA Director and DT.</li> <li>-Support all cross-AOR planning and execution activities.</li> <li>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USCENTCOM Deputy Commander at USCENTCOM HQ.</li> <li>-Plan and execute quarterly tag-ups between MDA and USCENTCOM J-3.</li> <li>-Support USCENTCOM wargames and exercises.</li> </ul> <p>USPACOM Engagement:</p> <ul style="list-style-type: none"> <li>-Assist USPACOM leadership to broaden Phased Adaptive Approach planning to address a full range of threats and integration of allies into the BMDS.</li> <li>-Assist with the development, planning, procurement, and installation of a long-range discrimination radar for the USPACOM AOR.</li> <li>-Provide reach-back support to the USPACOM ATD and LNO in USPACOM activities requiring visibility by the MDA Director and DT.</li> <li>-Share operational information and knowledge and help allies develop common operational procedures.</li> <li>-Support BMD test, training, wargames, and exercises.</li> <li>-Plan and execute a yearly senior leader forum hosted by the MDA Director and USPACOM Deputy Commander at USPACOM HQ.</li> <li>-Plan and execute quarterly tag-ups between MDA and USPACOM J-3.</li> </ul> |   |   |                |                |
| <b>Title:</b> Program, Planning and Operations   |   | -   | 7.435          | 7.090          |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|--|----------------|----------------|----------------|
| <p align="right"><i>Articles:</i></p> <p><b>Description:</b> N/A</p> <p><b>FY 2014 Accomplishments:</b><br/>N/A</p> <p><b>FY 2015 Plans:</b><br/>The decrease from FY 2014 (executed in the MD03 budget project) to FY 2015 was taken from the wargames and exercises accomplishment.</p> <p>The MDA will continue to make significant strides in Warfighter Operational support by increasing its focus on providing operational-level interface to the GCCs and increasing Warfighter participation in development of future missile defense capabilities. The key Warfighter interface activities include:</p> <p>MDA Operational Support:</p> <ul style="list-style-type: none"> <li>-Support OSPT activation during heightened period of interest.</li> <li>-Support Warfighters, DoD Agencies, and Military Services in identifying desired missile defense capabilities and characteristics.</li> <li>-Obtain Warfighter participation and advice on desired operational features and approaches to system fielding throughout development.</li> <li>-Track analysis and responses for CCMD RFA/RFIs.</li> <li>-Serve as the immediate link between MDA and the GCCs on all Warfighter activities and requirements.</li> <li>-Prepare MDA senior leadership for U.S. Army, Navy, and Air Force BOD meetings and Air and Missile Defense (AMD) General Officer Steering Committee meetings.</li> <li>-Coordinate MDA and GCC participation in BMDS capability definition, design, development, and integration.</li> <li>-Provide resource management and administration of MT03 personnel and dollars.</li> <li>-Support and staff the HMOC during surge operations and sustained 24/7 hour operations.</li> <li>-Manage travel, including travel to support the wargames and exercises and the ATDs and LNOs as MDA representatives at the GCC HQs.</li> </ul> <p><b>FY 2016 Plans:</b><br/>The \$345 thousand decrease from FY 2015 to FY 2015 was due to continued wargame and exercises efficiencies related to scheduling.</p> | -              | -              | -              |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>   | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| <p>The MDA will continue to focus on providing operational-level interface to the GCCs and increasing Warfighter participation in the development of future missile defense capabilities. The key Warfighter interface activities include:</p> <p>MDA Operational Support:</p> <ul style="list-style-type: none"> <li>-Support OSPT activation during heightened period of interest.</li> <li>-Support Warfighters, DoD Agencies, and Military Services in identifying desired missile defense capabilities and characteristics.</li> <li>-Obtain Warfighter participation and advice on desired operational features and approaches to system fielding throughout development.</li> <li>-Track analysis and responses for CCMD RFA/RFIs.</li> <li>-Serve as the immediate link between MDA and the GCCs on all Warfighter activities and requirements.</li> <li>-Prepare MDA senior leadership for U.S. Army, Navy, and Air Force BOD meetings and AMD General Officer Steering Committee meetings.</li> <li>-Coordinate MDA and GCC participation in BMDS capability definition, design, development, and integration.</li> <li>-Provide resource management and administration of MT03 personnel and dollars.</li> <li>-Support and staff the HMOC during surge operations and sustained 24/7 hour operations.</li> <li>-Manage travel, including travel to support the wargames and exercises and the ATDs and LNOs as MDA representatives at the GCC HQs.</li> </ul> |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>   | -              | 29.134         | 31.149         |

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

N/A

**Remarks**

**D. Acquisition Strategy**

In order to optimize the performance of the Ballistic Missile Defense System (BMDS), MDA leverages Defense Department executive agents as well as the MDA Joint National Integration Center Research and Development (JRDC) contract.

The executing agents utilize various contracting strategies in a flexible manner to maximize their contribution to the BMDS. Products and Services will be acquired by competitive means to the extent that is possible and practical.

In 2016, the MDA JRDC contract is scheduled to be recompeted and will be called the Integrated Research and Development for Enterprise Solutions (IRES).

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

|   |
|---|
| <b><u>E. Performance Metrics</u></b><br>N/A |
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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |   |
|--|---|---|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| <b>Support (\$ in Millions)</b>  |                        |   |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--|------------------------|---|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item   | Contract Method & Type | Performing Activity & Location                | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| Wargames and Exercises - Combatant Commanders (COCOM) Support                | C/CPAF                 | JRDC/MIPR : Colorado Springs, Huntsville, NCR | 0.000       | -       |            | 15.527  |            | 18.240       |            | -           |            | 18.240        | Continuing       | Continuing | Continuing               |
| Wargames and Exercises - Wargame Support                                     | C/CPAF                 | JRDC/MIPR : Colorado Springs                  | 0.000       | -       |            | 6.172   |            | 5.819        |            | -           |            | 5.819         | Continuing       | Continuing | Continuing               |
| Program, Planning and Operations - Civilian Salaries/Operations Sustainment  | Allot                  | MDA : Colorado Springs, Huntsville, NCR       | 0.000       | -       |            | 1.932   |            | 2.343        |            | -           |            | 2.343         | Continuing       | Continuing | Continuing               |
| Program, Planning and Operations - Combatant Commanders (COCOM) Support A&AS | C/CPFF                 | MiDAESS : Colorado Springs, Huntsville, NCR   | 0.000       | -       |            | 1.242   |            | 1.049        |            | -           |            | 1.049         | Continuing       | Continuing | Continuing               |
| Program, Planning and Operations - Government Travel & Training              | Allot                  | MDA : Colorado Springs, Huntsville, NCR       | 0.000       | -       |            | 0.621   |            | 0.650        |            | -           |            | 0.650         | Continuing       | Continuing | Continuing               |
| Program, Planning and Operations - Support to MDA Leadership A&AS            | C/CPFF                 | MiDAESS : Colorado Springs, Huntsville, NCR   | 0.000       | -       |            | 3.640   |            | 3.048        |            | -           |            | 3.048         | Continuing       | Continuing | Continuing               |
| <b>Subtotal</b>  |                        |   | 0.000       | -       |            | 29.134  |            | 31.149       |            | -           |            | 31.149        | -                | -          | -                        |

**Remarks**  
N/A

|                            | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 0.000       | -       | 29.134  | 31.149       | -           | 31.149        | -                | -          | -                        |

**Remarks**  
Prior year funding was captured in MD03 budget project.

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Missile Defense Agency</b> |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                               | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

Significant Event Complete ▲    Milestone Decision Complete ★    Element Test Complete ◆    System Level Test Complete ●    Complete Activity ✦  
 Significant Event Planned △    Milestone Decision Planned ☆    Element Test Planned ◇    System Level Test Planned ○    Planned Activity ✧

|   | 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 |
| GLOBAL THUNDER 15 Exercise Event - 2015                         |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| VIGILANT SHIELD 15 Exercise Event - 2015                        |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ULCHI FREEDOM GUARD 15 Event - 2015                             |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 15 - 2015    |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 1 - 2015 |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE 15 USCENTCOM Exercise 1 - 2015          |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2015                 |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EPOCH PLANEX 15 Exercise - 2015                                 |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| RAMSTEIN ALLIANCE EXERCISE - 2015                               |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 15 Exercise Event 1 - 2015                  |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE FIRE 15 Wargame Event 1 - 2015                           |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AUSTERE CHALLENGE 15 Exercise - 2015                            |         |   |   | ✦ | ✦       | ✦ | ✦ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| BMDS WARGAME 2015 Event - 2015                                  |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEEN EDGE 15 Exercise Event - 2015                              |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EAGLE RESOLVE 15 Exercise Event - 2015                          |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 2 - 2015 |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE 15 USCENTCOM Exercise 2 - 2015          |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEEN SWORD 15 Exercise - 2015                                   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 15 Exercise Event 2- 2015                   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE FIRE 15 Wargame Event 2 - 2015                           |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 15 Exercise Event - 2015                       |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 3 - 2015 |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 4 - 2015 |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Missile Defense Agency</b> |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                               | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

|   | 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 |
| GLOBAL DEFENDER Exercise 06 Part 2                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE 15 Exercise - 2015                                |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2015                      |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 15 Exercise Event 3 - 2015                |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE FIRE 15 Wargame Event 3 - 2015                         |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR and MISSILE DEFENSE CENTCOM Exercise Event 5 - 2015 |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| VIGILANT SHIELD 16 Exercise Event - 2016                      |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise Series - 2016                |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL THUNDER 16 Exercise Event - 2016                       |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EPOCH PLANEX Exercise - 17                                    |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 16 Exercise Event 1 - 2016                |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE 16 Exercise - 2016                                |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2016                      |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 16 Exercise Event 2 - 2016                |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 16 Exercise Event - 2016                     |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| JUNIPER COBRA 16 Exercise - 2016                              |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| TERMINAL FURY 16 Exercise - 2016                              |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 16 - 2016  |         |   |   |   |         |   |   |   |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| HUNTSVILLE WARGAMES Event - 16                                |         |   |   |   |         |   |   |   |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| RONALD REAGAN FORUM Exercise - 16                             |         |   |   |   |         |   |   |   |         |   |   |   |         | △ |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ULCHI FREEDOM GUARD 16 Event - 2016                           |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Events - 16  |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| BMDS Wargame 2017 Event - 2017                                |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       | ✦ | ✦ |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE Exercise Series - 2016                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EAGLE RESOLVE 16 Exercise Event - 2016                        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 16 Exercise Event 3 - 2016                |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2016               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Missile Defense Agency</b> |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                               | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

|  | 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 |
| RAMSTEIN ALLIANCE Exercise - 2016                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| NIMBLE TITAN 18 Wargame Year 1 - 18                          |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| VIGILANT SHIELD 17 Exercise Event - 2017                     |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise Series - 2017               |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EPOCH PLANEX Exercise - 18                                   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 17 Exercise Event 1 - 2017               |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL RESPONSE Exercise Event - 2016                        |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL THUNDER 17 Exercise Event - 2017                      |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE 17 Exercise - 2017                               |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2017                     |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 17 Exercise Event 2 - 2017               |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 17 Exercise Event - 2017                    |         |   |   |   |         |   |   |   |         |   |   |   |         | ✦ | ✦ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| TERMINAL FURY 17 Exercise - 2017                             |         |   |   |   |         |   |   |   |         |   |   |   |         | ✦ | ✦ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| AUSTERE CHALLENGE 17 Exercise - 2017                         |         |   |   |   |         |   |   |   |         |   |   |   |         | ✦ | ✦ | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 17 - 2017 |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |
| HUNTSVILLE WARGAMES Event - 17                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| RONALD REAGAN FORUM Exercise - 17                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ULCHI FREEDOM GUARDIAN 17 Event - 2017                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| KEEN SWORD 17 Exercise - 2017                                |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 17  |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE Exercise Series - 2017                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 17 Exercise Event 3 - 2017               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2017              |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| RAMSTEIN ALLIANCE Exercise - 2017                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| KEEN EDGE 18 Exercise Event - 2018                           |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       | ✦ |   |   |         |   |   |   |         |   |   |   |
| NIMBLE TITAN 18 Wargame Event 2 - 2018                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       | ✦ | ✦ |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise Series - 2018               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL THUNDER 18 Exercise Event - 2018                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Missile Defense Agency</b> |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                               | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

|  | 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 |
| VIGILANT SHIELD 18 Exercise Event - 2018                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EPOCH PLANEX Exercise - 19                                   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 18 Exercise Event 1 - 2018               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| EAGLE RESOLVE 18 Exercise Event - 2018                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE 18 Exercise - 2018                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2018                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 18 Exercise Event 2 - 2018               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL RESPONSE (GREx) Exercise Event - 2018                 |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 18 Exercise Event - 2018                    |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| JUNIPER COBRA 18 Exercise - 2018                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| TERMINAL FURY 18 Exercise - 2018                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 18 - 2018 |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |
| HUNTSVILLE WARGAMES Event - 18                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| RONALD REAGAN FORUM Exercise - 18                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ULCHI FREEDOM GUARDIAN 18 Event - 2018                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |         |   |   |   |         |   |   |   |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 18  |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| JOINT AIR DEFENSE Exercise Series- 2018                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | △ |         |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 18 Exercise Event 3 - 2018               |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2018              |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| RAMSTEIN ALLIANCE Exercise - 2018                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       |   |   |   |         |   |   |   |         |   |   |   |
| BMDS WARGAME 2019 Event - 2019                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       | ✦ |   |   |         |   |   |   |         |   |   |   |
| NIMBLE TITAN 20 Wargame Event 1 - 2020                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   | ✦ | ✦       | ✦ | ✦ |   |         |   |   |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise Series- 2019                |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |
| GLOBAL THUNDER 19 Exercise Event - 2019                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |
| VIGILANT SHIELD 19 Exercise Event - 2019                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |
| EPOCH PLANEX Exercise - 20                                   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 19 Exercise Event 1 - 2019               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |         |   |   |   |

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**Exhibit R-4, RDT&E Schedule Profile: PB 2016 Missile Defense Agency** **Date:** February 2015

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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

|  | 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 |
| EPOCH PLANEX Exercise - 21                                   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| KEY RESOLVE 19 Exercise - 2019                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ | ✦ | ✦ |         |   |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2019                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |
| ARABIAN GULF SHIELD 19 Exercise Event 2 - 2019               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | △       |   |   |   |         |   |   |   |
| GLOBAL LIGHTNING 19 Exercise Event - 2019                    |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ |   |   |         |   |   |   |
| TERMINAL FURY 19 Exercise - 2019                             |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ |   |   |         |   |   |   |
| AUSTERE CHALLENGE 19 Exercise - 2019                         |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | ✦       | ✦ | ✦ |   |         |   |   |   |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 19 - 2019 |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| HUNTSVILLE WARGAMES Event - 19                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| RONALD REAGAN FORUM Exercise - 19                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| ULCHI FREEDOM GUARD 19 Event - 2019                          |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |
| KEEN SWORD 19 Exercise - 2019                                |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 19  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |
| KEEN EDGE 20 Exercise Event - 2020                           |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       | ✦ |   |   |
| JOINT AIR DEFENSE Exercise Series - 2019                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| EAGLE RESOLVE 19 Exercise Event - 2019                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| ARABIAN GULF SHIELD 19 Exercise Event 3 - 2019               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2019              |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ |         |   |   |   |
| RAMSTEIN ALLIANCE Exercise - 2019                            |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       |   |   |   |
| NIMBLE TITAN 20 Wargame Event 2- 2020                        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | ✦ | ✦ | ✦       | ✦ |   |   |
| JOINT AIR DEFENSE Exercise Series - 2020                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| AIR and MISSILE DEFENSE Exercise Series - 2020               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| GLOBAL THUNDER 20 Exercise Event - 2020                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| VIGILANT SHIELD 20 Exercise Event - 2020                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| ARABIAN GULF SHIELD 20 Exercise Event 1 - 2020               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   | △ |   |         |   |   |   |
| KEY RESOLVE 20 Exercise - 2020                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         | △ |   |   |
| FLEET SYNTHETIC TRAINING Exercise - 2020                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         | △ |   |   |



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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| GLOBAL THUNDER 15 Exercise Event - 2015                         | 1       | 2015 | 1       | 2015 |
| VIGILANT SHIELD 15 Exercise Event - 2015                        | 1       | 2015 | 1       | 2015 |
| ULCHI FREEDOM GUARD 15 Event - 2015                             | 1       | 2015 | 1       | 2015 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 15 - 2015    | 1       | 2015 | 1       | 2015 |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 1 - 2015 | 1       | 2015 | 1       | 2015 |
| AIR and MISSILE DEFENSE 15 USCENTCOM Exercise 1 - 2015          | 1       | 2015 | 1       | 2015 |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2015                 | 1       | 2015 | 1       | 2015 |
| EPOCH PLANEX 15 Exercise - 2015                                 | 1       | 2015 | 1       | 2015 |
| RAMSTEIN ALLIANCE EXERCISE - 2015                               | 1       | 2015 | 1       | 2015 |
| ARABIAN GULF SHIELD 15 Exercise Event 1 - 2015                  | 1       | 2015 | 1       | 2015 |
| NIMBLE FIRE 15 Wargame Event 1 - 2015                           | 1       | 2015 | 1       | 2015 |
| AUSTERE CHALLENGE 15 Exercise - 2015                            | 1       | 2015 | 4       | 2015 |
| BMDS WARGAME 2015 Event - 2015                                  | 2       | 2015 | 2       | 2015 |
| KEEN EDGE 15 Exercise Event - 2015                              | 2       | 2015 | 2       | 2015 |
| EAGLE RESOLVE 15 Exercise Event - 2015                          | 2       | 2015 | 2       | 2015 |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 2 - 2015 | 2       | 2015 | 2       | 2015 |
| AIR and MISSILE DEFENSE 15 USCENTCOM Exercise 2 - 2015          | 2       | 2015 | 2       | 2015 |
| KEEN SWORD 15 Exercise - 2015                                   | 2       | 2015 | 2       | 2015 |
| ARABIAN GULF SHIELD 15 Exercise Event 2- 2015                   | 2       | 2015 | 2       | 2015 |
| NIMBLE FIRE 15 Wargame Event 2 - 2015                           | 2       | 2015 | 2       | 2015 |
| GLOBAL LIGHTNING 15 Exercise Event - 2015                       | 3       | 2015 | 3       | 2015 |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 3 - 2015 | 3       | 2015 | 3       | 2015 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |   |
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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| JOINT AIR and MISSILE DEFENSE USCENTCOM Exercise Event 4 - 2015 | 3       | 2015 | 3       | 2015 |
| GLOBAL DEFENDER Exercise 06 Part 2                              | 3       | 2015 | 3       | 2015 |
| KEY RESOLVE 15 Exercise - 2015                                  | 3       | 2015 | 3       | 2015 |
| FLEET SYNTHETIC TRAINING Exercise - 2015                        | 3       | 2015 | 3       | 2015 |
| ARABIAN GULF SHIELD 15 Exercise Event 3 - 2015                  | 3       | 2015 | 3       | 2015 |
| NIMBLE FIRE 15 Wargame Event 3 - 2015                           | 3       | 2015 | 3       | 2015 |
| JOINT AIR and MISSILE DEFENSE CENTCOM Exercise Event 5 - 2015   | 4       | 2015 | 4       | 2015 |
| VIGILANT SHIELD 16 Exercise Event - 2016                        | 1       | 2016 | 1       | 2016 |
| AIR and MISSILE DEFENSE Exercise Series - 2016                  | 1       | 2016 | 1       | 2016 |
| GLOBAL THUNDER 16 Exercise Event - 2016                         | 1       | 2016 | 1       | 2016 |
| EPOCH PLANEX Exercise - 17                                      | 1       | 2016 | 1       | 2016 |
| ARABIAN GULF SHIELD 16 Exercise Event 1 - 2016                  | 1       | 2016 | 1       | 2016 |
| KEY RESOLVE 16 Exercise - 2016                                  | 2       | 2016 | 2       | 2016 |
| FLEET SYNTHETIC TRAINING Exercise - 2016                        | 2       | 2016 | 2       | 2016 |
| ARABIAN GULF SHIELD 16 Exercise Event 2- 2016                   | 2       | 2016 | 2       | 2016 |
| GLOBAL LIGHTNING 16 Exercise Event - 2016                       | 2       | 2016 | 3       | 2016 |
| JUNIPER COBRA 16 Exercise - 2016                                | 2       | 2016 | 3       | 2016 |
| TERMINAL FURY 16 Exercise - 2016                                | 2       | 2016 | 3       | 2016 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 16 - 2016    | 3       | 2016 | 3       | 2016 |
| HUNTSVILLE WARGAMES Event - 16                                  | 3       | 2016 | 3       | 2016 |
| RONALD REAGAN FORUM Exercise - 16                               | 3       | 2016 | 3       | 2016 |
| ULCHI FREEDOM GUARD 16 Event - 2016                             | 3       | 2016 | 4       | 2016 |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Events - 16    | 3       | 2016 | 1       | 2017 |
| BMDS Wargame 2017 Event - 2017                                  | 3       | 2016 | 2       | 2017 |
| JOINT AIR DEFENSE Exercise Series - 2016                        | 4       | 2016 | 4       | 2016 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |   |
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| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| Events   | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| EAGLE RESOLVE 16 Exercise Event - 2016                       | 4       | 2016 | 4       | 2016 |
| ARABIAN GULF SHIELD 16 Exercise Event 3 - 2016               | 4       | 2016 | 4       | 2016 |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2016              | 4       | 2016 | 1       | 2017 |
| RAMSTEIN ALLIANCE Exercise - 2016                            | 4       | 2016 | 1       | 2017 |
| NIMBLE TITAN 18 Wargame Year 1 - 18                          | 4       | 2016 | 3       | 2017 |
| VIGILANT SHIELD 17 Exercise Event - 2017                     | 1       | 2017 | 1       | 2017 |
| AIR and MISSILE DEFENSE Exercise Series - 2017               | 1       | 2017 | 1       | 2017 |
| EPOCH PLANEX Exercise - 18                                   | 1       | 2017 | 1       | 2017 |
| ARABIAN GULF SHIELD 17 Exercise Event 1 - 2017               | 1       | 2017 | 1       | 2017 |
| GLOBAL RESPONSE Exercise Event - 2016                        | 1       | 2017 | 1       | 2017 |
| GLOBAL THUNDER 17 Exercise Event - 2017                      | 1       | 2017 | 1       | 2017 |
| KEY RESOLVE 17 Exercise - 2017                               | 2       | 2017 | 2       | 2017 |
| FLEET SYNTHETIC TRAINING Exercise - 2017                     | 2       | 2017 | 2       | 2017 |
| ARABIAN GULF SHIELD 17 Exercise Event 2 - 2017               | 2       | 2017 | 2       | 2017 |
| GLOBAL LIGHTNING 17 Exercise Event - 2017                    | 2       | 2017 | 3       | 2017 |
| TERMINAL FURY 17 Exercise - 2017                             | 2       | 2017 | 3       | 2017 |
| AUSTERE CHALLENGE 17 Exercise - 2017                         | 1       | 2017 | 4       | 2017 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 17 - 2017 | 3       | 2017 | 3       | 2017 |
| HUNTSVILLE WARGAMES Event - 17                               | 3       | 2017 | 3       | 2017 |
| RONALD REAGAN FORUM Exercise - 17                            | 3       | 2017 | 3       | 2017 |
| ULCHI FREEDOM GUARDIAN 17 Event - 2017                       | 3       | 2017 | 4       | 2017 |
| KEEN SWORD 17 Exercise - 2017                                | 3       | 2017 | 1       | 2018 |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 17  | 3       | 2017 | 1       | 2018 |
| JOINT AIR DEFENSE Exercise Series - 2017                     | 4       | 2017 | 4       | 2017 |
| ARABIAN GULF SHIELD 17 Exercise Event 3 - 2017               | 4       | 2017 | 4       | 2017 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |   |
|--|---|---|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| Events   | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2017              | 4       | 2017 | 1       | 2018 |
| RAMSTEIN ALLIANCE Exercise - 2017                            | 4       | 2017 | 1       | 2018 |
| KEEN EDGE 18 Exercise Event - 2018                           | 4       | 2017 | 2       | 2018 |
| NIMBLE TITAN 18 Wargame Event 2 - 2018                       | 4       | 2017 | 3       | 2018 |
| AIR and MISSILE DEFENSE Exercise Series - 2018               | 1       | 2018 | 1       | 2018 |
| GLOBAL THUNDER 18 Exercise Event - 2018                      | 1       | 2018 | 1       | 2018 |
| VIGILANT SHIELD 18 Exercise Event - 2018                     | 1       | 2018 | 1       | 2018 |
| EPOCH PLANEX Exercise - 19                                   | 1       | 2018 | 1       | 2018 |
| ARABIAN GULF SHIELD 18 Exercise Event 1 - 2018               | 1       | 2018 | 1       | 2018 |
| EAGLE RESOLVE 18 Exercise Event - 2018                       | 2       | 2018 | 2       | 2018 |
| KEY RESOLVE 18 Exercise - 2018                               | 2       | 2018 | 2       | 2018 |
| FLEET SYNTHETIC TRAINING Exercise - 2018                     | 2       | 2018 | 2       | 2018 |
| ARABIAN GULF SHIELD 18 Exercise Event 2 - 2018               | 2       | 2018 | 2       | 2018 |
| GLOBAL RESPONSE (GREx) Exercise Event - 2018                 | 2       | 2018 | 2       | 2018 |
| GLOBAL LIGHTNING 18 Exercise Event - 2018                    | 2       | 2018 | 3       | 2018 |
| JUNIPER COBRA 18 Exercise - 2018                             | 2       | 2018 | 3       | 2018 |
| TERMINAL FURY 18 Exercise - 2018                             | 2       | 2018 | 3       | 2018 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 18 - 2018 | 3       | 2018 | 3       | 2018 |
| HUNTSVILLE WARGAMES Event - 18                               | 3       | 2018 | 3       | 2018 |
| RONALD REAGAN FORUM Exercise - 18                            | 3       | 2018 | 3       | 2018 |
| ULCHI FREEDOM GUARDIAN 18 Event - 2018                       | 3       | 2018 | 4       | 2018 |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 18  | 3       | 2018 | 1       | 2019 |
| JOINT AIR DEFENSE Exercise Series- 2018                      | 4       | 2018 | 4       | 2018 |
| ARABIAN GULF SHIELD 18 Exercise Event 3 - 2018               | 4       | 2018 | 4       | 2018 |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2018              | 4       | 2018 | 1       | 2019 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |   |
|--|---|---|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| Events   | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| RAMSTEIN ALLIANCE Exercise - 2018                            | 4       | 2018 | 1       | 2019 |
| BMDS WARGAME 2019 Event - 2019                               | 4       | 2018 | 2       | 2019 |
| NIMBLE TITAN 20 Wargame Event 1 - 2020                       | 4       | 2018 | 3       | 2019 |
| AIR and MISSILE DEFENSE Exercise Series- 2019                | 1       | 2019 | 1       | 2019 |
| GLOBAL THUNDER 19 Exercise Event - 2019                      | 1       | 2019 | 1       | 2019 |
| VIGILANT SHIELD 19 Exercise Event - 2019                     | 1       | 2019 | 1       | 2019 |
| EPOCH PLANEX Exercise - 20                                   | 1       | 2019 | 1       | 2019 |
| ARABIAN GULF SHIELD 19 Exercise Event 1 - 2019               | 1       | 2019 | 1       | 2019 |
| EPOCH PLANEX Exercise - 21                                   | 1       | 2019 | 1       | 2020 |
| KEY RESOLVE 19 Exercise - 2019                               | 2       | 2019 | 2       | 2019 |
| FLEET SYNTHETIC TRAINING Exercise - 2019                     | 2       | 2019 | 2       | 2019 |
| ARABIAN GULF SHIELD 19 Exercise Event 2 - 2019               | 2       | 2019 | 2       | 2019 |
| GLOBAL LIGHTNING 19 Exercise Event - 2019                    | 2       | 2019 | 3       | 2019 |
| TERMINAL FURY 19 Exercise - 2019                             | 2       | 2019 | 3       | 2019 |
| AUSTERE CHALLENGE 19 Exercise - 2019                         | 1       | 2019 | 4       | 2019 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 19 - 2019 | 3       | 2019 | 3       | 2019 |
| HUNTSVILLE WARGAMES Event - 19                               | 3       | 2019 | 3       | 2019 |
| RONALD REAGAN FORUM Exercise - 19                            | 3       | 2019 | 3       | 2019 |
| ULCHI FREEDOM GUARD 19 Event - 2019                          | 3       | 2019 | 4       | 2019 |
| KEEN SWORD 19 Exercise - 2019                                | 3       | 2019 | 1       | 2020 |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 19  | 3       | 2019 | 1       | 2020 |
| KEEN EDGE 20 Exercise Event - 2020                           | 3       | 2019 | 2       | 2020 |
| JOINT AIR DEFENSE Exercise Series - 2019                     | 4       | 2019 | 4       | 2019 |
| EAGLE RESOLVE 19 Exercise Event - 2019                       | 4       | 2019 | 4       | 2019 |
| ARABIAN GULF SHIELD 19 Exercise Event 3 - 2019               | 4       | 2019 | 4       | 2019 |

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |   |
|--|---|---|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |
|--|---|---|

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2019             | 4       | 2019 | 1       | 2020 |
| RAMSTEIN ALLIANCE Exercise - 2019                           | 4       | 2019 | 1       | 2020 |
| NIMBLE TITAN 20 Wargame Event 2- 2020                       | 4       | 2019 | 3       | 2020 |
| JOINT AIR DEFENSE Exercise Series - 2020                    | 1       | 2020 | 1       | 2020 |
| AIR and MISSILE DEFENSE Exercise Series - 2020              | 1       | 2020 | 1       | 2020 |
| GLOBAL THUNDER 20 Exercise Event - 2020                     | 1       | 2020 | 1       | 2020 |
| VIGILANT SHIELD 20 Exercise Event - 2020                    | 1       | 2020 | 1       | 2020 |
| ARABIAN GULF SHIELD 20 Exercise Event 1 - 2020              | 1       | 2020 | 1       | 2020 |
| KEY RESOLVE 20 Exercise - 2020                              | 2       | 2020 | 2       | 2020 |
| FLEET SYNTHETIC TRAINING Exercise - 2020                    | 2       | 2020 | 2       | 2020 |
| ARABIAN GULF SHIELD 20 Exercise Event 2 - 2020              | 2       | 2020 | 2       | 2020 |
| GLOBAL RESPONSE Exercise Event - 2020                       | 2       | 2020 | 2       | 2020 |
| GLOBAL LIGHTNING 20 Exercise Event - 2020                   | 2       | 2020 | 3       | 2020 |
| TERMINAL FURY 20 Exercise - 2020                            | 2       | 2020 | 3       | 2020 |
| EAGLE RESOLVE 21 Exercise Event - 2020                      | 2       | 2020 | 2       | 2021 |
| EUROPEAN AIR and MISSILE DEFENSE Exercise Alliance 20- 2020 | 3       | 2020 | 3       | 2020 |
| JUNIPER COBRA 20 Exercise - 2020                            | 3       | 2020 | 3       | 2020 |
| HUNTSVILLE WARGAMES Event - 20                              | 3       | 2020 | 3       | 2020 |
| RONALD REAGAN FORUM Exercise - 20                           | 3       | 2020 | 3       | 2020 |
| DEMONSTRATION, TABLE-TOP EXERCISES & EXPERIMENTS Event - 20 | 3       | 2020 | 1       | 2021 |
| KEEN SWORD 21 Exercise - 2021                               | 3       | 2020 | 2       | 2021 |
| ULCHI FREEDOM GUARDIAN 20 Event - 2020                      | 4       | 2020 | 4       | 2020 |
| ARABIAN GULF SHIELD 20 Exercise Event 3 - 2020              | 4       | 2020 | 4       | 2020 |
| MISSILE DEFENSE CONFERENCE Wargame Event - 2020             | 4       | 2020 | 1       | 2021 |
| RAMSTEIN ALLIANCE Exercise - 2020                           | 4       | 2020 | 1       | 2021 |

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|   |   |   |
|---|---|---|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MT03 / <i>Joint Warfighter Support Test</i> |

| Events                                 | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| BMDS WARGAME 2021 Event - 2021         | 4       | 2020 | 2       | 2021 |
| NIMBLE TITAN 21 Wargame Event 1 - 2021 | 4       | 2020 | 3       | 2021 |
| NIMBLE TITAN 21 Wargame Event 2 - 2021 | 4       | 2020 | 3       | 2021 |

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**Exhibit R-2A, RDT&E Project Justification:** PB 2016 Missile Defense Agency **Date:** February 2015

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD40 / <i>Program-Wide Support</i> |
|--|---|--|

| 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 |
|-----------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| MD40: <i>Program-Wide Support</i> | 4.132       | 2.450   | 2.684   | 2.180        | -           | 2.180         | 2.389   | 2.630   | 2.782   | 2.939   | Continuing       | Continuing |
| Quantity of RDT&E Articles        | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       |                  |            |

**Note**

FY 2016 reflects a proportional change as a result of decreases in Ballistic Missile Defense Joint Warfighter Support.

Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests, and civilian salaries on the R-3.

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

Program-Wide Support (PWS) contains non-headquarters management costs in support of Missile Defense Agency (MDA) functions and activities across the entire Ballistic Missile Defense System (BMDS). It includes Government Civilians, Contract Support Services, and Federally Funded Research and Development Center (FFRDC) support. This provides integrity and oversight of the BMDS as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes Global Deployment personnel and support performing deployment site preparation and activation and, provides facility capabilities for MDA Executing Agent locations. Other MDA wide costs includes: physical and technical security; civilian drug testing; audit readiness; the Science, Technology, Engineering, and Mathematics (STEM) program; legal services and settlements; travel and agency training; office and equipment leases; utilities; data and unified communications support; supplies and maintenance; materiel and readiness and central property management of equipment; and similar operating expenses. Program Wide Support is allocated on a pro-rata basis and therefore, fluctuates by year based on the total adjusted RDT&E profile (which excludes: 0305103C Cyber Security Initiative, 0603274C Special Program, 0603913C Israeli Cooperative Program and 0901598C Management Headquarters).

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

|   | FY 2014 | FY 2015 | FY 2016 |
|---|---------|---------|---------|
| <b>Title:</b> Program Wide Support  | 2.450   | 2.684   | 2.180   |
| <b>Articles:</b>  | -       | -       | -       |
| <b>Description:</b> N/A   |         |         |         |
| <b>FY 2014 Accomplishments:</b><br>See paragraph A: Mission Description and Budget Item Justification |         |         |         |
| <b>FY 2015 Plans:</b><br>See paragraph A: Mission Description and Budget Item Justification           |         |         |         |
| <b>FY 2016 Plans:</b>   |         |         |         |

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|--|---|--|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD40 / <i>Program-Wide Support</i> |

| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
|---|----------------|----------------|----------------|
| See paragraph A: Mission Description and Budget Item Justification                      |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                       | 2.450          | 2.684          | 2.180          |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD40 / <i>Program-Wide Support</i> |
|--|---|--|

| <b>Support (\$ in Millions)</b>   |                        |  |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|--|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item  | Contract Method & Type | Performing Activity & Location                 | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| Program Wide Support - Agency Facilities and Maintenance (MIPR)                                 | MIPR                   | Various : Multi: AK, AL, CA, CO, VA            | 0.000       | 1.200   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Program Wide Support - Agency Operations Management   | Allot                  | Various Multi: AL, CO, CA, VA : Various        | 0.000       | -       |            | 0.334   |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Program Wide Support - Agency Operations and Support Civilian Salaries, Travel, Training        | Allot                  | MDA : Multi: AK, AL, CA, CO, VA                | 0.000       | -       |            | 1.604   |            | 1.617        | Nov 2015   | -           |            | 1.617         | Continuing       | Continuing | Continuing               |
| Program Wide Support - Agency Operations and Support Services                                   | C/CPFF                 | ALATEC , INC. : AL, CO, VA                     | 4.132       | 0.993   |            | 0.746   | Nov 2014   | 0.563        | Oct 2015   | -           |            | 0.563         | Continuing       | Continuing | Continuing               |
| Program Wide Support - Agency Operations and Support Services (Reqn)                            | Reqn                   | Various : Multi: AK, AL, CA, CO, VA            | 0.000       | -       |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Program Wide Support - Agency Operations and Support, International, and Materiel and Readiness | MIPR                   | Naval Surface Warfare Center; VA, AL : Various | 0.000       | 0.257   |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Program Wide Support - FFRDC/UARC   | C/CPAF                 | Various : Multi: AL, VA                        | 0.000       | -       |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| <b>Subtotal</b>   |                        |  | 4.132       | 2.450   |            | 2.684   |            | 2.180        |            | -           |            | 2.180         | -                | -          | -                        |

**Remarks**  
N/A

|                            | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 4.132       | 2.450   | 2.684   | 2.180        | -           | 2.180         | -                | -          | -                        |

**Remarks**  
N/A

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**Exhibit R-4, RDT&E Schedule Profile: PB 2016 Missile Defense Agency** **Date:** February 2015

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD40 / <i>Program-Wide Support</i> |
|--|---|--|

Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

|                           | 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 |
| MD40 Program-Wide Support |         |   |   |   |         |   |   |   | ✧       | ✧ | ✧ | ✧ | ✧       | ✧ | ✧ | ✧ | ✧       | ✧ | ✧ | ✧ | ✧       | ✧ | ✧ | ✧ | ✧       | ✧ | ✧ | ✧ |

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|---|---|--|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Missile Defense Agency |   | <b>Date:</b> February 2015   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                | <b>R-1 Program Element (Number/Name)</b><br>PE 0603898C / <i>Ballistic Missile Defense Joint Warfighter Support</i> | <b>Project (Number/Name)</b><br>MD40 / <i>Program-Wide Support</i> |

Schedule Details

| Events                    | Start   |      | End     |      |
|---------------------------|---------|------|---------|------|
|                           | Quarter | Year | Quarter | Year |
| MD40 Program-Wide Support | 1       | 2016 | 4       | 2020 |