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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 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> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	38.053	5.977	6.515	6.389	-	6.389	7.112	7.290	7.454	7.665	Continuing	Continuing
MD33: <i>MD Space Exp Center (MDSEC)</i>	38.053	5.727	6.173	6.020	-	6.020	6.695	6.834	6.950	7.117	Continuing	Continuing
MD40: <i>Program-Wide Support</i>	-	0.250	0.342	0.369	-	0.369	0.417	0.456	0.504	0.548	Continuing	Continuing

**MDAP/MAIS Code:** 362

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

N/A

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

The Missile Defense Space Center (MDSC) facilitates the integration and demonstration of missile defense space capabilities with other defense and national security systems.

The MDSC infrastructure provides Missile Defense Agency (MDA) user capabilities for supporting flight tests, conducting concept development, demonstrations, experiments, and developing and evaluating algorithms within a multi-security level, collaborative environment. As part of a collaborative environment, the MDSC conducts studies and experiments with Air Force Space Command seeking to optimize future MDA space-layer options to support Space Situational Awareness (SSA).

The MDSC provides MDA elements with a central point of activity for Ballistic Missile Defense System (BMDS) space sensor layer operations and integration to support the ballistic missile defense mission. The infrastructure of the MDSC supports the operation and control of MDA satellites such as the Space Tracking and Surveillance System Demonstration (STSS-D) Satellites and the Near Field Infrared Experiment (NFIRE) satellite. In addition, the MDSC annual operating expenses provide infrastructure support for security, configuration management, engineering, test, experiment, data, and logistics and create a collaborative environment for the MDA community that includes STSS-D; NFIRE; BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA); Command and Control, Battle Management and Communications (C2BMC); Integrated Sensor Manager (ISM); MDA C2BMC Experimentation Laboratory (X-Lab); MDA Enterprise Sensors Laboratory (ESL); and future MDA space-layer capabilities.

Goals for the MDSC:

- Demonstrate critical space capabilities:
  - Aegis Engage on STSS-D against lethal object
  - Aegis Launch on/Engage on using STSS-D against multiple targets
  - Aegis Launch on/Engage on using STSS-D against a raid
  - Ability to support hit/kill assessment from space

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- Ability to support discrimination
- Ability to support SSA mission from space
- Ability to cue BMDS sensors from space
- Ability to integrate space into emerging fire control loops
- Develop and refine ground operational concepts for MDA space systems, sensors, data, services, and networks
- Operate and refine the MDSC Interchange System (MIS) to provide robust access to MDA space data and MDA user net-centric sensor tasking request interface
- Develop a security environment to support data integration, test, demonstrations, and experiments across multiple security levels
- Provide a Test Integration Lab (TIL) to support testing, demonstrations, experiments, integration and algorithm development
- Demonstrate connectivity and integration of space sensor layer data for the Ballistic Missile Defense System (BMDS) community and external users
- Conduct experiments to test algorithm validity for Missile Defense space systems
- Mature Ballistic Missile Defense System (BMDS) space based sensing through studies, analysis, sensor data integration, algorithm development, performance assessments, and architecture improvements
- Develop and mature joint space sensing Concept of Operations (CONOPS), Tactics, Techniques, & Procedures (TTPs), and asset management to evaluate space based sensor contributions to the BMDS
- Integrate and evaluate Missile Defense Agency (MDA), other Department of Defense agencies, and Services space capabilities to demonstrate space based sensing contributions for discrimination support, hit assessment, dim target detection and tracking, advanced threat tracking, and wideband infrared sensor data integration and exploitation
- Support development and demonstration of real-time Infrared/Radar data fusion (system track)
- Provide infrastructure to demonstrate integration of missile defense space capabilities with other defense and national security systems

MD40 Program-Wide Support (PWS) consists of essential non-headquarters management costs in support of the MDA functions and activities across the entire BMDS.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	6.912	6.515	6.522	-	6.522
Current President's Budget	5.977	6.515	6.389	-	6.389
Total Adjustments	-0.935	-	-0.133	-	-0.133
• Congressional General Reductions	-0.009	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.258	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-0.668	-	-0.133	-	-0.133

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	

**Change Summary Explanation**

FY 2015 reduction of \$0.133 reflects realignment of Department of Defense priorities.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
MD33: <i>MD Space Exp Center (MDSEC)</i>	38.053	5.727	6.173	6.020	-	6.020	6.695	6.834	6.950	7.117	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

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**

The Missile Defense Space Center (MDSC) allows Missile Defense Agency (MDA) elements to conduct satellite on-orbit operations and to conduct flight tests, demonstrations, experiments, data integration, algorithm development and testing and concept exploration. The annual operating expenses for the MDSC provide overhead functions to include security, configuration management, engineering, testing, demonstration, experiment, data analysis and integration, and logistics support for satellite operations and MDA users to include Space Tracking and Surveillance System Demonstration (STSS-D) Satellites; Near Field Infrared Experiment (NFIRE); Ballistic Missile Defense System (BMDS) Overhead Persistent Infrared (OPIR) Architecture (BOA); Command and Control, Battle Management and Communications (C2BMC); MDA C2BMC Experimentation Laboratory (X-Lab); MDA Enterprise Sensors Laboratory (ESL); and future MDA space-layer capabilities. The MDSC space-layer activities include integration, experimentation, and support across a broad range of BMDS activities to include target signatures, sensor registration, health and status, sensor performance, sensor and weapons netting (with C2BMC and C2BMC X-Lab), modeling and simulation, OPIR Data Fusion and advanced features, discrimination, typing, clutter mitigation, and target kill and impact point assessments.

The MDSC provides infrastructure to support satellite operations for STSS-D, NFIRE, and future space systems as the single location for MDA elements to conduct satellite on-orbit operations. The MDSC also provides a multi-level security environment for sensor data management and integration across space and terrestrial sensor data activities. MDSC experiments leverage Department of Defense (DOD)(Defense Support Program, Space Based Infrared System) and national security space capabilities. MDSC activities support analysis, demonstration and integration of space sensor capabilities into developmental and operational MDA elements. MDSC enables the development of advanced technology and algorithms including fusion of multiple sensor types (radar, overhead persistent infrared, electro-optical and other emerging sensor technologies). MDSC supports mission integration of space-based missile tracking (boost and midcourse phases), sensor and weapons cueing via C2BMC, features and discrimination, kill and impact point assessments into C2BMC, Aegis Launch on STSS-D, Aegis Engage on STSS-D, Terminal High Altitude Area Defense (THAAD), Ground-based Midcourse Defense (GMD), and other (non-MDA) mission areas to include Space Situational Awareness, technical intelligence, and battle space characterization.

The MDSC continues to develop and refine on-orbit operations for the STSS-D satellites and NFIRE. In addition to satellite operations, the MDSC hosts a collaborative experimentation environment via the MDSC Interchange System (MIS) and the MDSC Test Integration Lab (TIL) for BMDS elements that rely on, experiment with,

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<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>

integrate with, or seek to improve the BMDS capability by utilizing space-based, systems-derived data. The MIS provides common, secure data architecture for MDA, DOD and national security space sensor data and a satellite sensor tasking request tool interface with MDA users. The TIL provides a common location for MDA user collaboration with access to space sensor layer data via the MIS during tests and experiments. The MDSC supports efforts to increase the effectiveness of the BMD System (including probability of engagement success, increase in defended area and raid size capacity, additional redundancy of architecture, unity of command) through the integration of MDA developed capabilities. The MDSC Sensor Registration Health & Status Monitoring (SRHSM) Experiment addresses efforts such as sensor registration (reporting of sensor errors/biases) and correlation (ensuring the information from multiple sensors seeing a threat relates to the same object) and provides a platform for real-time algorithm integration and test. Other (MDSC) experiments explore areas including system track (creating a single engageable track of a threat from multiple reports provided by different land, sea, and space based multiple sensors), discrimination (identifying object details to determine the target from debris or decoys), battle management (combining the best sensors and shooters to ensure the highest probability of a kill), hit/kill Assessment (determining if the target selected was destroyed after missile impact), and communications (providing the worldwide connection of sensors and shooters to command authorities). These experiments are structured to be implemented across the Ballistic Missile Defense System (BMDS) elements to create and utilize system level data and decisions that allow Combatant Commanders the ability to automatically and manually optimize sensor coverage and interceptor inventory to defend against ballistic threats.

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

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> Missile Defense Space Center (MDSC)	5.727	6.173	6.020
<b>Articles:</b>	-	-	-
<p><b>Description:</b> The MDSC provides a central collaborative environment to develop, operate, exploit, and integrate Joint Space Capabilities for the Ballistic Missile Defense System (BMDS).</p> <p><b>FY 2013 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Testing included SM-3 intercept using Space Tracking and Surveillance System Demonstration (STSS-D) Satellites as a remote sensor</li> <li>- STSS-D provided to an Aegis 4.0.2 ship the Quality of Service data track that initiated a Remote Engagement Authorized (REA) launch of a SM-3 Block IA against a Medium Range Ballistic Missile (MRBM) target</li> <li>- Continued maturation of the STSS-D and Near Field Infrared Experiment (NFIRE) satellite on-orbit operations</li> <li>- Participated in tests outlined in the Integrated Master Test Plan with other BMDS elements to include planning, execution and analyses; perform data collection on other targets of opportunity</li> <li>- Used test data, modeling and simulation, and integrated BMDS ground tests to demonstrate space-based infrared sensor contributions to BMDS performance</li> <li>-- An example of this is the STSS-D Object Sighting Messages fused in the Enterprise Sensors Laboratory (ESL) to produce system tracks. System tracks are used to provide precision cues to BMDS radars and enables interceptor quality fire control.</li> <li>- Provided core infrastructure support to enable joint experiments with the ESL; Command and Control, Battle Management and Communications (C2BMC) X-Lab; and the BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA)</li> <li>- Continued to support laser communications experiments) to assess viability of the technology</li> </ul>			

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<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p>- Continued to support Air Force Space Command and joint partners with Space Situational Awareness, Technical Intelligence, Battlespace Awareness, and Missile Warning</p> <p><b>FY 2014 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue efforts as listed under FY 2013</li> <li>- Support Simulated Aegis (Hardware-in-the Loop (HWIL)) Engage-On STSS-D satellites Tests and fulfillment of OPIR requests for STSS-D data based on satellite availability</li> <li>- Conduct analysis of space radiation environment and its influence on Missile Defense Agency (MDA) space system performance</li> <li>- Conduct analysis of space based sensor data from STSS-D, NFIRE, and OPIR observations, both individually and combined, to identify phenomenology and techniques to aid future tracking and discrimination architectures</li> <li>- Support concept studies and analysis for alternative sensor payload configurations (e.g. hosted payloads)</li> <li>- Develop and integrate real time algorithms for dim target detection and tracking, discrimination support, hit assessment, and wideband IR sensor data integration and exploitation</li> <li>- Conduct algorithm development, performance assessments, architecture assessments, and concept evaluations of future MDA space-layer options.</li> </ul> <p><b>FY 2015 Plans:</b></p> <ul style="list-style-type: none"> <li>- Support launch, integration, and operations of future Missile Defense Agency (MDA) space capabilities</li> <li>- Support Hardware-in-the Loop (HWIL) Engage-On Space Tracking &amp; Surveillance System Demonstration (STSS-D) satellites tests and fulfill Overhead Persistent Infrared (OPIR) requests for STSS-D data based on satellite availability</li> <li>- Conduct analysis of space radiation environment and its influence on MDA space system performance</li> <li>- Conduct analysis of space based sensor data from STSS-D and(OPIR) observations, both individually and combined, to identify phenomenology and techniques to aid future tracking and discrimination architectures</li> <li>- Support concept studies and analysis for alternative sensor payload configurations (e.g. hosted payloads)</li> <li>- Develop and integrate real-time algorithms for dim target detection and tracking, discrimination support, hit/kill assessment, and wideband infrared sensor data integration and exploitation</li> <li>- Conduct algorithm development, performance assessments, architecture assessments, and concept evaluations of future MDA space-layer options.</li> <li>- Provides future space-layer capability risk reduction through analysis, test and demonstration</li> <li>- Support Air Force Space Command and joint mission partners with Space Situational Awareness, technical intelligence, battlespace awareness, and missile warning</li> </ul>			
<b>Accomplishments/Planned Programs Subtotals</b>	5.727	6.173	6.020

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<b>Line Item</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 0603175C: <i>Ballistic Missile Defense Technology</i>	69.438	9.321	38.800	-	38.800	76.400	52.000	112.800	178.000	-	536.759
• 0603884C: <i>Ballistic Missile Defense Sensors</i>	306.896	366.590	392.893	-	392.893	462.030	448.763	403.272	368.125	Continuing	Continuing
• 0603892C: <i>AEGIS BMD</i>	958.506	909.928	929.208	-	929.208	955.825	911.095	866.678	721.426	Continuing	Continuing
• 0603893C: <i>Space Tracking and Surveillance System</i>	45.420	40.347	31.346	-	31.346	33.697	34.542	35.317	36.316	Continuing	Continuing
• 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management &amp; Communication</i>	344.431	405.319	443.484	-	443.484	456.182	462.525	452.937	465.638	Continuing	Continuing
• 0603902C: <i>Next Generation Aegis Missile (Standard Missile-3 Block IIB (SM-3 IIB))</i>	58.952	-	-	-	-	-	-	-	-	-	58.952
• 0603904C: <i>Missile Defense Integration and Operations Center (MDIOC)</i>	61.684	52.095	58.530	-	58.530	51.738	61.594	53.885	55.414	Continuing	Continuing
• 0603914C: <i>Ballistic Missile Defense Test</i>	438.114	337.993	386.482	-	386.482	340.811	369.920	417.712	413.194	Continuing	Continuing
• 0603915C: <i>Ballistic Missile Defense Targets</i>	438.523	491.170	485.294	-	485.294	419.537	512.098	426.085	429.822	Continuing	Continuing
• 0604883C: <i>Precision Tracking Space System</i>	204.666	-	-	-	-	-	-	-	-	-	204.666

**Remarks**

**D. Acquisition Strategy**

Functions and operations of the Missile Defense Space Center (MDSC) are currently financed through a 10-year MDSC Joint National Integration Center (JNIC) Research and Development Contract (JRDC) Services Contract. The sole-source contractor, Northrop Grumman Information Systems, is responsible for integrating Research, Development, Test and Evaluation (RDT&E), operations support, and resource and infrastructure management for the MDSC, providing customer support, while achieving efficiencies through approaches that exceed customer requirements.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
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<b><u>E. Performance Metrics</u></b> N/A
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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2015 Missile Defense Agency</b>											<b>Date:</b> March 2014				
<b>Appropriation/Budget Activity</b> 0400 / 4				<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>				<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>							

<b>Support (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Missile Defense Space Center (MDSC) - Contract Support Services (CSS)	C/Various	Various, MDA : CO/AL	2.466	1.262		0.372	Oct 2013	0.238	Oct 2014	-		0.238	Continuing	Continuing	Continuing
Missile Defense Space Center (MDSC) - MDA Civilian	Allot	MDA : Schriever AFB, CO	1.205	0.548		0.666	Oct 2013	0.707	Oct 2014	-		0.707	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.671	1.810		1.038		0.945		-		0.945	-	-	-

**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.

<b>Management Services (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Missile Defense Space Center (MDSC) - Mission Planning and Analysis	C/CPFF	Utah State University Space Dynamics Laboratory : UT	3.233	0.303		0.451	Nov 2013	0.454	Nov 2014	-		0.454	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.233	0.303		0.451		0.454		-		0.454	-	-	-

**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.

<b>Product Development (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Missile Defense Space Center (MDSC) - MDSC Support (JRDC Services Contract)	SS/CPAF	NGIS : Schriever AFB, CO	24.954	3.267		4.066	Dec 2013	4.250	Dec 2014	-		4.250	Continuing	Continuing	Continuing

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Missile Defense Agency** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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			
Missile Defense Space Center (MDSC) - MDSC/Enterprise Sensors Laboratory (ESL) Experiments	C/Various	Various : Various	6.195	0.347		0.618	Oct 2013	0.371	Oct 2014	-		0.371	Continuing	Continuing	Continuing
<b>Subtotal</b>			31.149	3.614		4.684		4.621		-		4.621	-	-	-

**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.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	38.053	5.727	6.173	6.020	-	6.020	-	-	-

**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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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</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 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2013	▲																											
FTI-01 (Aegis/THAAD/Patriot Multiple Engagement Flight Test)	▲																											
Mission Planning, Tasking and Analysis - 1Q2013-4Q2013	✦	✦	✦	✦																								
STSS Demonstration Satellites Operations - 1Q2013-4Q2013	✦	✦	✦	✦																								
MIS Operations - 1Q2013-4Q2013	✦	✦	✦	✦																								
MDSDC TIL Operations - 1Q2013-4Q2013	✦	✦	✦	✦																								
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2013			▲																									
FTM-20 (Aegis Intercept Flight Test)			▲																									
FTG-07 (GM Intercept Flight Test)			▲																									
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2013				▲																								
FTO-01 (Aegis/THAAD/Patriot Multiple Engagement Flight Test)					▲																							
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2013						▲																						
FTM-21 (Aegis Intercept Flight Test)							▲																					
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2014								▲																				
MDSC TIL Operations - 1Q2014-4Q2014									✦	✦	✦	✦																

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</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 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Mission Planning, Tasking and Analysis - 1Q2014-4Q2014					✦	✦	✦	✦																				
STSS Demonstration Satellites Operations - 1Q2014-4Q2014					✦	✦	✦	✦																				
MIS Operations - 1Q2014-4Q2014					✦	✦	✦	✦																				
FTX-18 (AEGIS 4.0.2 Target Only Flight Test)					▲																							
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2014					△																							
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2014						△																						
FTG-06b (GM Intercept Flight Test)								△																				
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2014								△																				
FTM-26 (AEGIS 5.0 Intercept Flight Test)									△																			
FTM-25 (AEGIS 5.0 Intercept Flight Test)									△																			
FTX-20 (AEGIS 5.0 Target Only Flight Test)									△																			
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2015									△																			
MDSC TIL Operations - 1Q2015-4Q2015									✦	✦	✦	✦																
MIS Operations - 1Q2015-4Q2015									✦	✦	✦	✦																
Mission Planning, Tasking and Analysis - 1Q2015-4Q2015									✦	✦	✦	✦																
STSS Demonstration Satellites Operations - 1Q2015-4Q2015									✦	✦	✦	✦																

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</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 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2015									△																			
FTX-19 (AEGIS 4.0.2 Target Only Flight Test)									△																			
FTM-24 (AEGIS 4.0.2 Intercept Flight Test)									△																			
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2015									△																			
FTO-02 E1 (OTA Intercept Flight Test)									△																			
FTG-09 (GM Intercept Flight Test)									△																			
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2015												△																
FTX-21 (AEGIS SBT Target Only Flight Test)												△																
FTO-02 E2 (OTA Intercept Flight Test)												△																
FTT-18 (TH Intercept Flight Test)												△																
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2019												△																
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2016													△															
MDSC TIL Operations - 1Q2016-4Q2016													✦	✦	✦	✦												
MIS Operations - 1Q2016-4Q2016													✦	✦	✦	✦												
Mission Planning, Tasking and Analysis - 1Q2016-4Q2016													✦	✦	✦	✦												
STSS Demonstration Satellites Operations - 1Q2016-4Q2016													✦	✦	✦	✦												
FTM-27 (AEGIS SBT Intercept Flight Test)													△															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</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 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2016													▲															
FTG-15 (GM Intercept Flight Test)													▲															
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2016													▲															
SFTM-01 E2 (AEGIS 5.1 Intercept Only Flight Test)													▲															
SFTM-01 E1 (AEGIS 5.1 Target Only Flight Test)													▲															
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2016														▲														
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2017																▲												
STSS Demonstration Satellites Operations - 1Q2017-4Q2017																	✦	✦	✦	✦								
MDSC TIL Operations - 1Q2017-4Q2017																	✦	✦	✦	✦								
Mission Planning, Tasking and Analysis - 1Q2017-4Q2017																	✦	✦	✦	✦								
MIS Operations - 1Q2017-4Q2017																	✦	✦	✦	✦								
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2017																		▲										
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2017																			▲									





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2013	1	2013	1	2013
FTI-01 (Aegis/THAAD/Patriot Multiple Engagement Flight Test)	1	2013	1	2013
Mission Planning, Tasking and Analysis - 1Q2013-4Q2013	1	2013	4	2013
STSS Demonstration Satellites Operations - 1Q2013-4Q2013	1	2013	4	2013
MIS Operations - 1Q2013-4Q2013	1	2013	4	2013
MDSDC TIL Operations - 1Q2013-4Q2013	1	2013	4	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2013	2	2013	2	2013
FTM-20 (Aegis Intercept Flight Test)	2	2013	2	2013
FTG-07 (GM Intercept Flight Test)	3	2013	3	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2013	3	2013	3	2013
FTO-01 (Aegis/THAAD/Patriot Multiple Engagement Flight Test)	4	2013	4	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2013	4	2013	4	2013
FTM-21 (Aegis Intercept Flight Test)	4	2013	4	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2014	1	2014	1	2014
MDSC TIL Operations - 1Q2014-4Q2014	1	2014	4	2014
Mission Planning, Tasking and Analysis - 1Q2014-4Q2014	1	2014	4	2014
STSS Demonstration Satellites Operations - 1Q2014-4Q2014	1	2014	4	2014
MIS Operations - 1Q2014-4Q2014	1	2014	4	2014
FTX-18 (AEGIS 4.0.2 Target Only Flight Test)	2	2014	2	2014
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2014	2	2014	2	2014
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2014	3	2014	3	2014
FTG-06b (GM Intercept Flight Test)	4	2014	4	2014

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2014	4	2014	4	2014
FTM-26 (AEGIS 5.0 Intercept Flight Test)	1	2015	1	2015
FTM-25 (AEGIS 5.0 Intercept Flight Test)	1	2015	1	2015
FTX-20 (AEGIS 5.0 Target Only Flight Test)	1	2015	1	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2015	1	2015	1	2015
MDSC TIL Operations - 1Q2015-4Q2015	1	2015	4	2015
MIS Operations - 1Q2015-4Q2015	1	2015	4	2015
Mission Planning, Tasking and Analysis - 1Q2015-4Q2015	1	2015	4	2015
STSS Demonstration Satellites Operations - 1Q2015-4Q2015	1	2015	4	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2015	2	2015	2	2015
FTX-19 (AEGIS 4.0.2 Target Only Flight Test)	2	2015	2	2015
FTM-24 (AEGIS 4.0.2 Intercept Flight Test)	3	2015	3	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2015	3	2015	3	2015
FTO-02 E1 (OTA Intercept Flight Test)	3	2015	3	2015
FTG-09 (GM Intercept Flight Test)	3	2015	3	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2015	4	2015	4	2015
FTX-21 (AEGIS SBT Target Only Flight Test)	4	2015	4	2015
FTO-02 E2 (OTA Intercept Flight Test)	4	2015	4	2015
FTT-18 (TH Intercept Flight Test)	4	2015	4	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2019	4	2015	4	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2016	1	2016	1	2016
MDSC TIL Operations - 1Q2016-4Q2016	1	2016	4	2016
MIS Operations - 1Q2016-4Q2016	1	2016	4	2016
Mission Planning, Tasking and Analysis - 1Q2016-4Q2016	1	2016	4	2016
STSS Demonstration Satellites Operations - 1Q2016-4Q2016	1	2016	4	2016

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
FTM-27 (AEGIS SBT Intercept Flight Test)	2	2016	2	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2016	2	2016	2	2016
FTG-15 (GM Intercept Flight Test)	3	2016	3	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2016	3	2016	3	2016
SFTM-01 E2 (AEGIS 5.1 Intercept Only Flight Test)	3	2016	3	2016
SFTM-01 E1 (AEGIS 5.1 Target Only Flight Test)	3	2016	3	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2016	4	2016	4	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2017	1	2017	1	2017
STSS Demonstration Satellites Operations - 1Q2017-4Q2017	1	2017	4	2017
MDSC TIL Operations - 1Q2017-4Q2017	1	2017	4	2017
Mission Planning, Tasking and Analysis - 1Q2017-4Q2017	1	2017	4	2017
MIS Operations - 1Q2017-4Q2017	1	2017	4	2017
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2017	2	2017	2	2017
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2017	3	2017	3	2017
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2017	4	2017	4	2017
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2018	1	2018	1	2018
MDSC TIL Operations - 1Q2018-4Q2018	1	2018	4	2018
Mission Planning, Tasking and Analysis - 1Q2018-4Q2018	1	2018	4	2018
STSS Demonstration Satellites Operations - 1Q2018-4Q2018	1	2018	4	2018
MIS Operations - 1Q2018-4Q2018	1	2018	4	2018
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2018	2	2018	2	2018
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2018	3	2018	3	2018
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2018	4	2018	4	2018
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2019	1	2019	1	2019
MDSC TIL Operations - 1Q2019-4Q2019	1	2019	4	2019

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD33 / <i>MD Space Exp Center (MDSEC)</i>

Events	Start		End	
	Quarter	Year	Quarter	Year
MIS Operations - 1Q2019-4Q2019	1	2019	4	2019
STSS Demonstration Satellites Operations - 1Q2019-4Q2019	1	2019	4	2019
Mission Planning, Tasking and Analysis - 1Q2019-4Q2019	1	2019	4	2019
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2019	2	2019	2	2019
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2019	3	2019	3	2019

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
MD40: <i>Program-Wide Support</i>	-	0.250	0.342	0.369	-	0.369	0.417	0.456	0.504	0.548	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

N/A

**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 Service, and Federally Funded Research and Development Center (FFRDC) providing integrity and oversight of the BMDS as well as, supporting MDA in enabling the development and evaluation of technologies that will respond to the changing threat. In addition, includes Global Deployment personnel and support performing deployment site preparation and activation. Other costs included provide facility capabilities for MDA Executing Agent locations, such as physical and technical security, legal services, 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. Also includes legal settlements. In keeping with congressional intent, Program Wide Support is allocated on a pro-rata basis and therefore, fluctuates by year based on the total MDA budget.

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

	FY 2013	FY 2014	FY 2015
<b>Title:</b> Program Wide Support	0.250	0.342	0.369
<b>Articles:</b>	-	-	-
<b>Description:</b> N/A			
<b>FY 2013 Accomplishments:</b> See paragraph A: Mission Description and Budget Item Justification			
<b>FY 2014 Plans:</b> See paragraph A: Mission Description and Budget Item Justification			
<b>FY 2015 Plans:</b> See paragraph A: Mission Description and Budget Item Justification			
<b>Accomplishments/Planned Programs Subtotals</b>	0.250	0.342	0.369

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>

**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 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603895C / <i>Ballistic Missile Defense System Space Programs</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>
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<b>Support (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 Operations Management	C/CPAF	Various : Multi: AL, CA, CO, VA	0.000	0.250		0.342	Jun 2014	0.369	Jun 2015	-		0.369	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	0.250		0.342		0.369		-		0.369	-	-	-

**Remarks**  
N/A

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	0.000	0.250	0.342	0.369	-	0.369	-	-	-

**Remarks**  
N/A