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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System Space Programs</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	10.569	7.940	6.912	-	6.912	6.576	6.610	7.219	7.371	Continuing	Continuing
MD33: <i>MD Space Exp Center (MDSEC)</i>	10.162	7.940	6.561	-	6.561	6.244	6.286	6.862	6.996	Continuing	Continuing
MD40: <i>Program-Wide Support</i>	0.407	-	0.351	-	0.351	0.332	0.324	0.357	0.375	Continuing	Continuing

**Note**

The Program Office for Space Tracking and Surveillance System (STSS) relocated to Colorado Springs in the MDA Missile Defense Integration and Operations Center (MDIOC) within the Missile Defense Space Experimentation Center (MDSEC) 25 May 2011. At that time, the MDSEC was renamed to the Missile Defense Space Development Center (MDSDC).

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

The MDSDC, formerly MDSEC, facilitates the integration and demonstration of missile defense space capabilities with other defense and national security systems. The MDSDC infrastructure provides MDA users 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 MDSDC conducts studies and experiments with Air Force Space Command seeking to optimize the Precision Tracking Space System (PTSS) support for Space Situational Awareness (SSA).

The MDSDC provides MDA elements with a central point of activity for BMDS space sensor layer operations and integration to support the ballistic missile defense mission. The infrastructure of the MDSDC supports the operation and control of MDA satellites such as STSS satellites and the Near Field Infrared Experiment (NFIRE) satellite. In addition, the MDSDC 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; NFIRE; BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA); Command and Control, Battle Management and Communications (C2BMC); Integrated Sensor Manager (ISM); MDA C2BMC X-Lab; MDA Enterprise Sensors Laboratory (ESL); and the PTSS.

Modeling and Simulation (M&S) activities at the MDSDC support all phases of STSS maturation, including: development and necessary revision of Mission Planning and Analysis Tools, Data Collection Events, System Functional and Performance Tests, flight test missions, ground tests, wargames, exercises, and performance assessments (PAs).

Goals for the MDSDC:

- Develop and refine ground operational concepts for MDA space systems, sensors, data, services, and networks
- Conduct satellite operations for MDA space sensor satellites (STSS, NFIRE)
- Operate and refine the MDSDC 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 BMDS community and external users
- Conduct experiments to test algorithm validity for Missile Defense space systems
- Conduct studies and experiments with Air Force Space Command to optimize PTSS support for SSA

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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	PE 0603895C: <i>Ballistic Missile Defense System Space Programs</i>

- Develop and demonstrate real Infrared/Radar data fusion (System Track)
  - Conduct experiments and demonstrate STSS discrimination capabilities (identifying object details to determine the target from debris or decoys)
  - Provide infrastructure to demonstrate integration of missile defense space capabilities with other defense and national security systems
- MD40 consists of Program-Wide Support (PWS) non-headquarters management costs in support of MDA functions and activities across the entire Ballistic Missile Defense System (BMDS).

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2011</u></b>	<b><u>FY 2012</u></b>	<b><u>FY 2013 Base</u></b>	<b><u>FY 2013 OCO</u></b>	<b><u>FY 2013 Total</u></b>
Previous President's Budget	10.942	7.951	6.781	-	6.781
Current President's Budget	10.569	7.940	6.912	-	6.912
Total Adjustments	-0.373	-0.011	0.131	-	0.131
• Congressional General Reductions	-0.075	-0.011			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.298	-			
• Other Adjustment	-	-	0.131	-	0.131

**Change Summary Explanation**

FY 2011 adjustment reflects SBIR/STTR transfers and a Congressional decrease (DoD and Full year continuing appropriation Act, FY 2011, Public Law 112-10).

FY 2013 adjustment reflects funds realignment to DoD priorities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Missile Defense Agency								<b>DATE:</b> February 2012			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>				<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
MD33: <i>MD Space Exp Center (MDSEC)</i>	10.162	7.940	6.561	-	6.561	6.244	6.286	6.862	6.996	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0		0	0	0	0	0		

**Note**

The Program Office for Space Tracking and Surveillance System (STSS) relocated to Colorado Springs in the MDA Missile Defense Integration and Operations Center (MDIOC) within the Missile Defense Space Experimentation Center (MDSEC) 25 May 2011. At that time, the MDSEC was renamed to the Missile Defense Space Development Center (MDSDC).

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

The MDSDC, formerly MDSEC, allows MDA elements to conduct satellite on-orbit operations and to conduct flight test, demonstrations, experiments, data integration, algorithm development and test, and concept exploration. The annual operating expenses for the MDSDC provide overhead functions to include security, configuration management, engineering, test, demonstration, experiment, data analysis and integration, and logistics support for satellite operations and MDA users to include STSS; Near Field Infrared Experiment (NFIRE); BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA); Command and Control, Battle Management and Communications (C2BMC); Integrated Sensor Manager (ISM); MDA C2BMC X-Lab; MDA Enterprise Sensors Laboratory (ESL); and the Precision Tracking Space System (PTSS). The MDSDC Space Layer activities include integration and experimentation 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 MDSDC provides infrastructure to support satellite operations for STSS and NFIRE as the single location for MDA elements to conduct satellite on-orbit operations. The MDSDC also provides a multi-level security environment for sensor data management and integration across space and terrestrial sensor data activities. MDSDC experiments leverage DoD (Defense Support Program, Space Based Infrared System) and National Security Space capabilities. MDSDC activities support analysis, demonstration and integration of space sensor capabilities into developmental and operational MDA elements. MDSDC enables the development of advanced technology and algorithms including fusion of multiple sensor types (radar, overhead persistent infrared, electro-optical and other merging sensor technologies). MDSDC 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, Aegis Engage on STSS, 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 MDSDC continues to develop and refine on-orbit operations for the STSS Demonstration Satellites and NFIRE. In addition to satellite operations, the MDSDC hosts a collaborative experimentation environment via the MDSDC Interchange System (MIS) and the MDSDC Test Integration Lab (TIL) for BMDS elements that rely on, experiment with, integrate with, or seek to improve the BMDS capability by utilizing space-based, systems-derived data. The MIS provides a common, secure data architecture for MDA,

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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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 MDSDC 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 MDSDC 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). Other MDSDC experiments can explore areas from, 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), to Communications (providing the worldwide connection of sensors and shooters to command authorities). These experiments are structured to be implemented across the 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)**

	FY 2011	FY 2012	FY 2013
<p><b>Title:</b> Missile Defense Space Development Center (MDSDC)</p> <p style="text-align: right;"><b>Articles:</b></p> <p><b>Description:</b> See Description Below</p> <p><b>FY 2011 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Provided infrastructure support for Space Tracking and Surveillance System (STSS) and Near Field Infrared Experiment (NFIRE) satellite on-orbit operations</li> <li>- Continued maturation of the STSS and NFIRE satellite on-orbit operations</li> <li>- Implemented measures to consolidate and increase efficiency in STSS and NFIRE satellite on-orbit operations</li> <li>- Participated in cooperative tests with other BMDS elements to include planning, execution and analyses; performed 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>- First on-orbit demonstration of receipt of an external cue and the use of the STSS crosslink to transmit that cue to the out-of-view satellite, resulting in stereo midcourse tracking and first observation of missile intercept from low earth orbit (Aegis Intercept Flight Test (FTM-15))</li> <li>- Provided core infrastructure support and conducted joint experiments with the Enterprise Sensors Laboratory (ESL); Command and Control, Battle Management and Communications (C2BMC) X-Lab; and the BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA)</li> <li>- Supported laser communications experiments to assess viability of the technology</li> </ul>	<p>10.162</p> <p>0</p>	<p>7.940</p> <p>0</p>	<p>6.561</p> <p>0</p>

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<p>- Provided reports and data to include: STSS Sensor Performance Reports, Clutter Characterization for the Precision Tracking Space System (PTSS), Plume Phenomenology from NFIRE and STSS for MDA users, and Space Situational Awareness with NFIRE for Air Force Space Command</p> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- Implement measures to consolidate and increase efficiency in STSS and NFIRE satellite on-orbit operations</li> <li>- Continue to provide infrastructure support for STSS and NFIRE satellite on-orbit operations</li> <li>- Continue maturation of the STSS and NFIRE satellite on-orbit operations</li> <li>- Participate in cooperative tests with other BMDS elements to include planning, execution and analyses; perform data collection on other targets of opportunity</li> <li>- Use 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 Object Sighting Messages fused in the ESL to produce system tracks. System tracks are used to provide precision cues to BMDS radars and enables interceptor quality fire control.</li> <li>- Provide core infrastructure support and conduct joint experiments with the ESL, C2BMC X-Lab, and the BOA</li> <li>- Continue to support laser communications experiments to assess viability of the technology</li> <li>- Continue to support Air Force Space Command Space Situational Awareness, Technical Intelligence, Battlespace Awareness, and Missile Warning</li> </ul> <p><b>FY 2013 Plans:</b></p> <ul style="list-style-type: none"> <li>- Testing includes SM-3 intercept using Space Tracking and Surveillance (STSS) as a remote sensor</li> <li>-- STSS will provide to an Aegis 3.6.x or 4.0.1 ship the Quality of Service data track that will initiate a Remote Engagement Authorized (REA) launch of a Standard Missile-3 (SM-3) Block IB against an actual Medium-Range Ballistic Missile (MRBM) target</li> <li>- Continue maturation of the STSS and Near Field Infrared Experiment (NFIRE) satellite on-orbit operations (NFIRE as health and utility permit)</li> <li>- Participate 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>- Use 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 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>- Provide 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>- Continue to support laser communications experiments (as the NFIRE satellite's health and utility permit) to assess viability of the technology</li> </ul>				

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**Exhibit R-2A, RDT&E Project Justification:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
- Continue to support Air Force Space Command Space Situational Awareness, Technical Intelligence, Battlespace Awareness, and Missile Warning			
<b>Accomplishments/Planned Programs Subtotals</b>	10.162	7.940	6.561

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• 0603175C: <i>Ballistic Missile Defense Technology</i>	92.617	74.920	79.975		79.975	81.388	115.427	133.742	136.654	Continuing	Continuing
• 0603884C: <i>Ballistic Missile Defense Sensors</i>	389.259	222.075	347.012		347.012	327.342	362.520	341.780	326.095	Continuing	Continuing
• 0603888C: <i>Ballistic Missile Defense Test &amp; Targets</i>	999.068	85.569	0.000		0.000	0.000	0.000	0.000	0.000	0.000	1,084.637
• 0603892C: <i>AEGIS BMD</i>	1,530.767	988.928	992.407		992.407	960.870	950.097	1,030.201	958.680	Continuing	Continuing
• 0603893C: <i>Space Tracking &amp; Surveillance System</i>	105.580	96.232	51.313		51.313	45.355	32.423	34.195	35.087	Continuing	Continuing
• 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management &amp; Communication</i>	454.440	363.640	366.552		366.552	376.116	383.055	358.431	364.725	Continuing	Continuing
• 0603902C: <i>Next Generation Aegis Missile (Standard Missile-3 Block IIB (SM-3 IIB))</i>	0.000	13.443	224.077		224.077	295.248	455.373	508.356	430.239	Continuing	Continuing
• 0603904C: <i>Missile Defense Integration &amp; Operations Center (MDIOC)</i>	83.112	69.249	63.043		63.043	54.299	55.409	54.693	55.844	Continuing	Continuing
• 0603914C: <i>Ballistic Missile Defense Test</i>	0.000	487.699	454.400		454.400	420.357	446.542	373.395	421.632	Continuing	Continuing
• 0603915C: <i>Ballistic Missile Defense Targets</i>	0.000	454.357	435.747		435.747	475.175	505.591	406.931	485.950	0.000	2,763.751
• 0604883C: <i>Precision Tracking Space System</i>	36.693	80.723	297.375		297.375	267.505	285.529	326.073	354.190	Continuing	Continuing

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

**D. Acquisition Strategy**

Functions and operations of the Missile Defense Space Development Center (MDSDC) are currently financed through a 10-year MDSDC Joint National Integration Center (JNIC) Research and Development Contract (JRDC) Services Contract. Beginning FY 2005, the annual operating expenses have been consolidated into one centralized delivery order on the contract which includes core capabilities (labor and hardware) that are being performed in the MDSDC and supporting MDSDC participants.

**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Missile Defense Space Development Center (MSDC) MSDC Support (JRDC Services Contract)	C/CPAF	MDIOC:CO	20.951	4.439	Dec 2011	5.405	Dec 2012	-		5.405	Continuing	Continuing	Continuing
Missile Defense Space Development Center (MSDC) MSDC/Enterprise Sensors Laboratory (ESL) Experiments	MIPR	Various:Various	4.975	1.032	Dec 2011	-		-		-	0.000	6.007	6.007
<b>Subtotal</b>			25.926	5.471		5.405		-		5.405			

**Remarks**  
As on-orbit satellite operations for the Space Tracking and Surveillance System (STSS) and the Near Field Infrared Experiment (NFIRE) mature, the MSDC will continue to seek opportunities to achieve operational efficiencies.

<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Missile Defense Space Development Center (MSDC) Contract Support Services (CSS)	C/BPA	MDIOC, MDA:CO/AL	1.791	0.762	Dec 2011	-		-		-	0.000	2.553	2.553
Missile Defense Space Development Center (MSDC) MDA Civilian	Allot	MDA:AL	0.732	0.608	Oct 2011	-		-		-	0.000	1.340	1.340
<b>Subtotal</b>			2.523	1.370		-		-		-	0.000	3.893	3.893

**Remarks**  
Beginning FY 2013, funding for the MSDC MDA Civilians is incorporated with MDA Civilian pay under the Space Tracking and Surveillance System (STSS) Program Element 0603893C, Project MD12 STSS.

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-	0.000	0.000	0.000

**Remarks**

N/A

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Missile Defense Space Development Center (MDSDC) Space Dynamics Laboratory (SDL)	FFRDC	SDL:UT	2.218	1.099	Nov 2011	1.156	Nov 2012	-		1.156	Continuing	Continuing	Continuing
<b>Subtotal</b>			2.218	1.099		1.156		-		1.156			

**Remarks**

SDL is funded via University Affiliated Research Center (UARC) contract. SDL provides operations and engineering support for mission planning, tasking, and data collection activities at the MDSDC.

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	30.667	7.940		6.561		-		6.561			

**Remarks**

NA

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Missile Defense Agency		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Space Tracking and Surveillance System (STSS) Demonstration Satellites Operations - 1Q2011-4Q2011	1	2011	4	2011
STSS Demonstration Satellites Operations - 1Q2012-4Q2012	1	2012	4	2012
STSS Demonstration Satellites Operations - 1Q2013-4Q2013	1	2013	4	2013
STSS Demonstration Satellites Operations - 1Q2014-4Q2014	1	2014	4	2014
STSS Demonstration Satellites Operations - 1Q2015-4Q2015	1	2015	4	2015
STSS Demonstration Satellites Operations - 1Q2016-4Q2016	1	2016	4	2016
STSS Demonstration Satellites Operations - 1Q2017-4Q2017	1	2017	4	2017
Near Field Infrared Experiment (NFIRE) Satellite Operations - 1Q2011-4Q2011	1	2011	4	2011
NFIRE Satellite Operations-1Q2012-4Q2012	1	2012	4	2012
Mission Planning, Tasking and Analysis - 1Q2011-4Q2011	1	2011	4	2011
Mission Planning, Tasking and Analysis - 1Q2012-4Q2012	1	2012	4	2012
Mission Planning, Tasking and Analysis - 1Q2013-4Q2013	1	2013	4	2013
Mission Planning, Tasking and Analysis - 1Q2014-4Q2014	1	2014	4	2014
Mission Planning, Tasking and Analysis - 1Q2015-4Q2015	1	2015	4	2015
Mission Planning, Tasking and Analysis - 1Q2016-4Q2016	1	2016	4	2016
Mission Planning, Tasking and Analysis - 1Q2017-4Q2017	1	2017	4	2017
Enterprise Sensors Lab Engineering Baseline Release (5.0/5.1)	2	2011	2	2011
Enterprise Sensors Lab Engineering Baseline Release (6.1/6.2)	4	2011	4	2011
STSS/ESL-BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA) Midcourse Tracking Experiments - 1Q2011-4Q2011	1	2011	4	2011
ESL Engineering Baseline Release (7.1/7.2)	4	2012	4	2012
STSS/ESL-BOA Midcourse Tracking Experiments-1Q2012-4Q2012	1	2012	4	2012

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
STSS/ESL-BOA)/X-Lab System Track Experiments - 1Q2011-2Q2011	1	2011	2	2011
STSS/ESL-BOA OPIR Cueing Experiments - 1Q2011-4Q2011	1	2011	4	2011
STSS/ESL-BMDS Overhead Persistent Infrared (OPIR) Architecture (BOA) OPIR Cueing Experiments-1Q2012-4Q2012	1	2012	4	2012
STSS Sensor Registration Health & Status Experiments - 1Q2011-4Q2011	1	2011	4	2011
STSS Sensor Registration Health & Status Experiments-1Q2012-4Q2012	1	2012	4	2012
Missile Defense Space Development Center (MDSDC) Interchange System (MIS) Operations - 1Q2011-4Q2011	1	2011	4	2011
MDSDC Interchange System (MIS) Operations - 1Q2012-4Q2012	1	2012	4	2012
MIS Operations - 1Q2013-4Q2013	1	2013	4	2013
MIS Operations - 1Q2014-4Q2014	1	2014	4	2014
MIS Operations - 1Q2015-4Q2015	1	2015	4	2015
MIS Operations - 1Q2016-4Q2016	1	2016	4	2016
MIS Operations - 1Q2017-4Q2017	1	2017	4	2017
MDSDC Test Integration Lab (TIL) Operations - 1Q2011-4Q2011	1	2011	4	2011
MDSDC TIL Operations - 1Q2012-4Q2012	1	2012	4	2012
MDSDC TIL Operations - 1Q2013-4Q2013	1	2013	4	2013
MDSDC TIL Operations - 1Q2014-4Q2014	1	2014	4	2014
MDSDC TIL Operations - 1Q2015-4Q2015	1	2015	4	2015
MDSDC TIL Operations - 1Q2016-4Q2016	1	2016	4	2016
MDSDC TIL Operations - 1Q2017-4Q2017	1	2017	4	2017
Aegis Simulated Intercept Flight Test (JFTM-04 E1): Aegis 4.0.1 simulated intercept of a surrogate separating Medium-Range Ballistic Missile (MRBM)	1	2011	1	2011
Aegis Simulated Intercept Flight Test (FTM-16 E1): Aegis 4.0.1 simulated SM-3 Block IB intercept of a Short-Range Ballistic Missile (SRBM) target with Associated Objects	2	2011	2	2011
Sensors Flight Test (FTX-16 E1): Aegis 3.6.1 simulated Launch on Remote Engagement of a ballistic missile using STSS data in the Fire Control Solution	2	2011	2	2011

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Aegis Intercept Flight Test (FTM-15): Aegis 3.6.1 Standard Missile-3 (SM-3) Block IA engagement of an Intermediate-Range Ballistic Missile (IRBM) with Remote Engagements Authorized	3	2011	3	2011
Air-Launched Target Return to Flight (FTX-17): Return to flight of the Short-Range Air Launch Target	4	2011	4	2011
Terminal High Altitude Area Defense (THAAD) Intercept Flight Test (FTT-12): THAAD multiple engagement scenario with two near-simultaneous engagements	1	2012	1	2012
Ground-based Midcourse Defense Controlled Test Vehicle (GM CVT-01): Ground-based Midcourse Defense Intercept Controlled Vehicle Flight Test	3	2012	3	2012
Aegis Intercept Flight Test (FTM-16 E2a)	3	2012	3	2012
Aegis Intercept Flight Test (FTM-18): Aegis 4.0.1 SM-3 Block 1B engagement of a Short-Range Ballistic Missile (SRBM) target, Space Tracking and Surveillance System (STSS) Engage on Remote Shadow Mode	3	2012	3	2012
Aegis Intercept Flight Test (FTM-19): Aegis 4.0.1 intercept of a SRBM target with a SM-3 Block IB missile, STSS Launch on Remote Shadow Mode	4	2012	4	2012
Ground-based Midcourse Defense Intercept Flight Test (FTG-06b): Ground-based Midcourse Defense intercept of IRBM target based on results from FTG-06a	4	2012	4	2012
Aegis/THAAD/Patriot Multiple Engagement Flight Test (FTI-01): BMDS Developmental Flight Test against SRBM and MRBM targets	4	2012	4	2012
Aegis Simulated Intercept Flight Test (FTM-21 E1): Aegis 4.0.1 (two ships) Standard Missile-3 (SM-3) Block IB simulated engagement using digital engagement coordination of three SRBMs	3	2013	3	2013
Aegis Simulated Intercept Flight Test (FTM-21 E2): Aegis 4.0.1 (two ships) SM-3 Block IB simulated engagement using digital engagement coordination of three SRBMs	3	2013	3	2013
Aegis Intercept Flight Test (FTM-21 E3): Aegis 4.0.1 SM-3 Block IB salvo engagement of SRBM	3	2013	3	2013
Aegis Intercept Flight Test (FTM-22 E2): Aegis 4.0.1 SM-3 Block IB intercept of a SRBM	3	2013	3	2013
Aegis/THAAD/Patriot Multiple Engagement Flight Test (FTO-01): BMDS Operational Flight Test against Short-Range and Medium-Range Ballistic Missile targets	3	2013	3	2013

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Aegis Simulated Intercept Flight Test (FTX-14): Aegis 4.0.1SM-3 Block IB simulated engagement of a Wildcat Target	1	2014	1	2014
Arrow System Test (AST-15): First Arrow 3 engagement test	1	2014	1	2014
Aegis Flight Test (SCDPTV-01): SM-3 Block IIA 1st, 2nd, and 3rd stage performance test	1	2014	1	2014
Aegis Ashore Flight Test (AA CVT-01)	2	2014	2	2014
Aegis Intercept Flight Test (FTM-20 E1): Aegis 5.0 intercept of Medium-Range Ballistic Missile (MRBM) target with SM-3 Block IB missile	3	2014	3	2014
Ground-based Midcourse Defense Intercept Flight Test (FTG-08): Intercept of Intermediate-Range Ballistic Missile target with Associated Objects using 2-stage booster with first generation avionics	3	2014	3	2014
Aegis Ashore Intercept Flight Test (AA FTM-01)	4	2014	4	2014
Aegis Ashore Intercept Flight Test (AA FTM-02)	4	2014	4	2014
Aegis Flight Test, Standard Missile (FTM-24)	4	2014	4	2014
Terminal High Altitude Area Defense (THAAD) Intercept Flight Test (FTT-11a): THAAD exo-atmospheric engagement of a complex separating SRBM	4	2014	4	2014
Space Tracking and Surveillance System (STSS) Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2011	1	2011	1	2011
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2011	2	2011	2	2011
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2011	3	2011	3	2011
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2011	4	2011	4	2011
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2012	1	2012	1	2012
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2012	2	2012	2	2012
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2012	3	2012	3	2012
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2012	4	2012	4	2012
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2013	1	2013	1	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2013	2	2013	2	2013

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>	<b>PROJECT</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	MD33: <i>MD Space Exp Center (MDSEC)</i>

Events	Start		End	
	Quarter	Year	Quarter	Year
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2013	3	2013	3	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2013	4	2013	4	2013
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2014	1	2014	1	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
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2014	4	2014	4	2014
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2015	1	2015	1	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2015	2	2015	2	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2015	3	2015	3	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 4Q2015	4	2015	4	2015
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 1Q2016	1	2016	1	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 2Q2016	2	2016	2	2016
STSS Demonstration Satellites-BMDS Flight Tests/Targets of Opportunity - 3Q2016	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-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
Near Field Infrared Experiment (NFIRE) - Targets of Opportunity - 1Q2011	1	2011	1	2011
NFIRE - Targets of Opportunity - 2Q2011	2	2011	2	2011
NFIRE - Targets of Opportunity - 3Q2011	3	2011	3	2011
NFIRE - Targets of Opportunity - 4Q2011	4	2011	4	2011
NFIRE - Targets of Opportunity - 1Q2012	1	2012	1	2012
NFIRE - Targets of Opportunity - 2Q2012	2	2012	2	2012
NFIRE - Targets of Opportunity - 3Q2012	3	2012	3	2012

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD33: <i>MD Space Exp Center (MDSEC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
NFIRE - Targets of Opportunity - 4Q2012	4	2012	4	2012
NFIRE Laser Communications Terminal (LCT) Experiments/Operations - 1Q2011	1	2011	1	2011
NFIRE LCT Experiments/Operations - 2Q2011	2	2011	2	2011
NFIRE LCT Experiments/Operations - 3Q2011	3	2011	3	2011
NFIRE LCT Experiments/Operations - 4Q2011	4	2011	4	2011
NFIRE LCT Experiments/Operations - 1Q2012	1	2012	1	2012
NFIRE LCT Experiments/Operations - 2Q2012	2	2012	2	2012
NFIRE LCT Experiments/Operations - 3Q2012	3	2012	3	2012
NFIRE LCT Experiments/Operations - 4Q2012	4	2012	4	2012

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**Exhibit R-2A, RDT&E Project Justification:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	<b>PROJECT</b> MD40: <i>Program-Wide Support</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
MD40: <i>Program-Wide Support</i>	0.407	-	0.351	-	0.351	0.332	0.324	0.357	0.375	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0		0	0	0	0	0		

**Note**

N/A

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

Program-Wide Support (PWS) contains non-headquarters management costs in support of MDA functions and activities across the entire Ballistic Missile Defense System (BMDS). Includes Government Civilians, Advisory and Assistance Services, and Federally Funded Research and Development contracts (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 (with the exception of Federal Office Building 2 after FY 2011), such as physical and technical security, legal services, travel and agency training, office and equipment leases, rents and utilities, data and unified communications support, supplies and maintenance, logistics and central property management of equipment, and similar operating expenses. Also includes legal settlements, and foreign currency fluctuations on a limited number of foreign contracts. In keeping with congressional intent, PWS is allocated on a pro-rata basis and therefore, fluctuates by year based on the total MDA budget.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2011	FY 2012	FY 2013
<b>Title:</b> Civilian Salaries and Support	0.407	-	0.351
<b>Articles:</b>	0	0	0
<b>Description:</b> See Description Below			
<b>FY 2011 Accomplishments:</b> See paragraph A, Mission Description and Budget Item Justification			
<b>FY 2012 Plans:</b> See paragraph A, Mission Description and Budget Item Justification			
<b>FY 2013 Plans:</b> See paragraph A, Mission Description and budget item justification.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.407	-	0.351

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

N/A

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**Exhibit R-2A, RDT&E Project Justification:** PB 2013 Missile Defense Agency **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>	<b>PROJECT</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	PE 0603895C: <i>Ballistic Missile Defense System</i> <i>Space Programs</i>	MD40: <i>Program-Wide Support</i>

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A