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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Air Force **Date:** March 2014

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305173F / <i>Space and Missile Test and Evaluation Center</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	-	3.188	3.696	3.674	-	3.674	3.708	3.744	3.817	3.891	Continuing	Continuing
67A014: <i>R&amp;D Space and Missile Operations</i>	-	3.188	3.696	3.674	-	3.674	3.708	3.744	3.817	3.891	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

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

Research and Development Space and Missile Operations (RDSMO) develops and acquires systems to: operate experimental, demonstration, and operational satellites; operate a fixed and deployable satellite ground system enterprise; perform satellite compatibility testing; act as the focal point and center of expertise for DoD experimental and demonstration space and missile operations; support space and missile R&D; and conduct/support experimental/demonstration space and missile Developmental Test and Evaluation (DT&E) and Initial Operational Test and Evaluation (IOT&E) activities. RDSMO consists of the Space Test and Operations organization at Kirtland AFB which is the focal point for (1) the Multi-Mission Satellite Operations Center (MMSOC) installed in the RDT&E Support Complex (RSC) at Kirtland AFB, NM which operates R&D satellites, and the 1st Space Operations Squadron (1 SOPS) at Schriever AFB, CO which operates operational satellites; (2) satellite ground system enterprise development and integration and (3) deployable test systems which deploy mobile antennas worldwide to support space RDT&E activities.

FY15 funds include incremental development and establishment of new capabilities for the MMSOC, systems engineering, special studies, integration and test efforts in support of demonstrations and operational architectures designed to increase operations and maintenance efficiency and resiliency for global satellite command and control through military and commercial capabilities.

The main objective of MMSOC is to develop the capability to rapidly support R&D and operational systems and to transition R&D space vehicle technology with residual military utility to operational status for immediate warfighter support. MMSOC is a multiple mission operation system that uses standard software to (1) perform satellite command and control (C2) in support of launch requirements; (2) develop and test tactics, techniques, procedures and concepts to conduct satellite operations; (3) provide a satellite C2 incremental block evolution resource for RDT&E of new systems and concepts; and (4) deliver operational flexibility for new and currently flying assigned satellites.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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<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	3.680	3.696	3.720	-	3.720
Current President's Budget	3.188	3.696	3.674	-	3.674
Total Adjustments	-0.492	-	-0.046	-	-0.046
• Congressional General Reductions	-0.005	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.179	-			
• Other Adjustments	-0.308	-	-0.046	-	-0.046

**Change Summary Explanation**

FY2013: -\$0.308M for Sequestration

FY2014: -\$0.046M for Non-Pay Inflation

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
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<b>Title:</b> MMSOC Development	3.188	3.696	3.674
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**Description:** Multi-Mission Satellite Operations Center (MMSOC) development/integration/test

***FY 2013 Accomplishments:***

Completed hardware virtualization, continued implementation of new capability, completed port of missions flying on legacy systems onto MMSOC architecture (Comm/Nav Outage Forecasting System (C/NOFS), Boosters and CloudSat) and maintained 99.7% operational availability. Supported operations of multiple satellites and enhanced automation. Continued program office support and related support activities such as, but not limited to, mission support, special studies, Systems Engineering and Technical Assistance (SETA), Federally Funded Research and Development Centers (FFRDC), etc.

***FY 2014 Plans:***

Provide capability to AFSPC for reduced cost of operations through use of MMSOC architecture. Continue to port satellites on to MMSOC and continue to support operations of multiple satellites and enhance automation capability. Continue program office support and related support activities such as, but not limited to, mission support, special studies, Systems Engineering and Technical Assistance (SETA), Federally Funded Research and Development Centers (FFRDC), etc.

***FY 2015 Plans:***

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Continue providing capability to AFSPC for reduced cost of operations through use of MMSOC architecture. Refine and continue to support operations of multiple satellites and enhance automation capability. Continue program office support and related support activities such as, but not limited to, mission support, special studies, Systems Engineering and Technical Assistance (SETA), Federally Funded Research and Development Centers (FFRDC), etc.			
<b>Title:</b> RBC TSTR	-	-	-
<b>Description:</b> Remote Tracking Station Block Change Transportable Space Test Resource (RBC TSTR) development / integration.			
<b>FY 2013 Accomplishments:</b> N/A			
<b>FY 2014 Plans:</b> This program is no longer developing any additional capabilities for the RBC TSTR.			
<b>FY 2015 Plans:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	3.188	3.696	3.674

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• 834010: <i>General Information Technology</i>	1.381	1.038	1.683	-	1.683	1.754	1.822	1.855	1.888	Continuing	Continuing

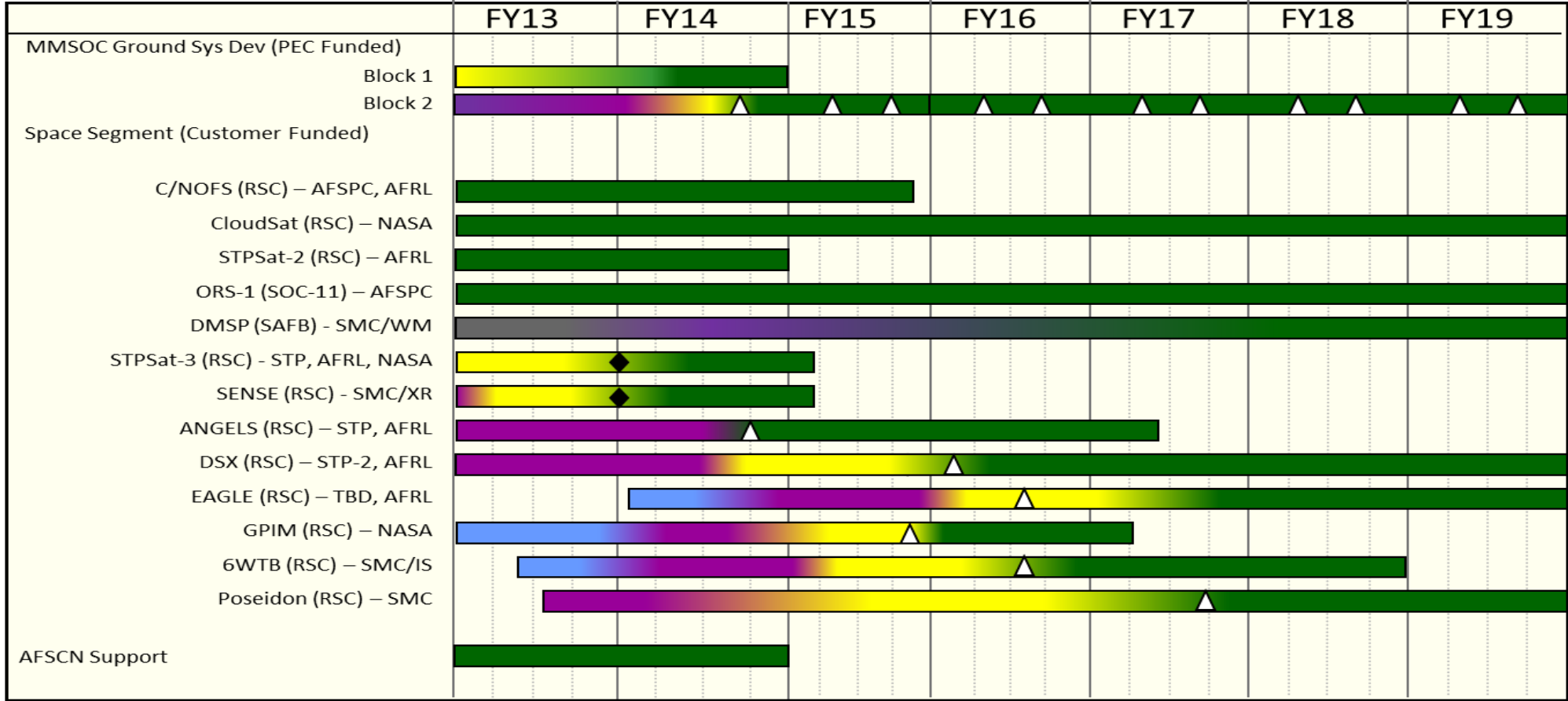
**Remarks**

**E. Acquisition Strategy**  
The AF uses the competitively awarded Engineering, Development, and Sustainment (EDS) Contract, managed by Space and Missile System Center, Space Development & Test Directorate, to modernize and sustain MMSOC.

**F. Performance Metrics**  
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Air Force</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305173F / <i>Space and Missile Test and Evaluation Center</i>	<b>Project (Number/Name)</b> 67A014 / <i>R&amp;D Space and Missile Operations</i>



█ Concept activities     
 █ Design / development     
 █ Integration / test  
█ Production / fielding     
 █ Operations / sustainment     
 △◇ Key events