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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)					R-1 ITEM NOMENCLATURE PE 0603444F: Maui Space Surveillance System (MSSS)							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	13.313	29.256	26.299	-	26.299	15.774	13.202	10.728	10.922	Continuing	Continuing
634868: Maui Space Surveillance System	-	13.313	29.256	26.299	-	26.299	15.774	13.202	10.728	10.922	Continuing	Continuing
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This program funds ground-based optical space situational awareness (SSA) technology development and demonstration at the Maui Space Surveillance System (MSSS) in Hawaii, as well as the operation and upgrade of the facility. Efforts in this program have been coordinated through the Department of Defense (DoD) Science and Technology (S&T) Executive Committee process to harmonize efforts and eliminate duplication. This program is in Budget Activity 3, Advanced Technology Development, since it enables and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.												
B. Program Change Summary (\$ in Millions)				FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total				
Previous President's Budget				13.555	29.256	26.299	-	26.299				
Current President's Budget				13.313	29.256	26.299	-	26.299				
Total Adjustments				-0.242	0.000	0.000	-	0.000				
• Congressional General Reductions				-	0.000							
• Congressional Directed Reductions				-	0.000							
• Congressional Rescissions				0.000	0.000							
• Congressional Adds				-	0.000							
• Congressional Directed Transfers				-	0.000							
• Reprogrammings				0.000	0.000							
• SBIR/STTR Transfer				-0.225	0.000							
• Other Adjustments				-0.017	0.000	0.000	-	0.000				
C. Accomplishments/Planned Programs (\$ in Millions)								FY 2012	FY 2013	FY 2014		
Title: Operate and Upgrade MSSS								13.313	19.944	15.944		
Description: Operate and upgrade MSSS to support development, demonstration, and integration of ground-based optical SSA technologies.												
FY 2012 Accomplishments:												

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Upgraded MSSS control room. Operated MSSS facility for development and demonstration of ground-based optical SSA capabilities such as characterization and identification of space objects. FY 2013 Plans: Maintain MSSS facility and experimental equipment in a mission-ready state. Deliver upgraded Laser Guidestar system at MSSS. Begin refurbishment of existing domes with repaint, new gaskets to prevent leaking and advanced electronics. Operate MSSS facility for development and demonstration of ground based optical SSA capabilities such as characterization and identification of space objects. Develop procedures supporting a new mix of research, customer programs, and operational SSA support. FY 2014 Plans: Maintain MSSS facility and experimental equipment in a mission-ready state. Perform needed upgrades and modernization to keep facilities and equipment in good working order and allow MSSS to perform efficiently and reliably. Install and perform testing of the upgraded Laser Guidestar system at MSSS. Implement procedures and operate MSSS facility for development and demonstration of ground based optical SSA capabilities in conjunction with customer programs and an operational SSA mission.				
Title: Geosynchronous Object Sensor Description: Develop and demonstrate dual-use integrated sensor technology for imaging of geosynchronous objects as well as other long-range applications. FY 2012 Accomplishments: N/A FY 2013 Plans: Begin development of dual-use sensor technology for identification of objects in geosynchronous orbit. FY 2014 Plans: Develop laser detection and ranging transceiver and conduct initial low-power technology demonstration for imaging objects in geosynchronous orbit.		0.000	9.312	10.355
Accomplishments/Planned Programs Subtotals		13.313	29.256	26.299
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy N/A				

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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.