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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603444F: <i>MAUI SPACE SURVEILLANCE SYSTEM</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	14.802	13.555	29.256	-	29.256	26.299	15.774	12.500	10.014	Continuing	Continuing
634868: <i>Maui Space Surveillance System</i>	14.802	13.555	29.256	-	29.256	26.299	15.774	12.500	10.014	Continuing	Continuing

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 Reliance 21 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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	5.899	13.555	13.927	-	13.927
Current President's Budget	14.802	13.555	29.256	-	29.256
Total Adjustments	8.903	-	15.329	-	15.329
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.423	-			
• SBIR/STTR Transfer	-0.050	-			
• Other Adjustments	7.530	-	15.329	-	15.329

Change Summary Explanation

FY11: Other Adjustments include -0.070 Congressional General Reductions and 7.600 Technical Adjustment for realignment of Ground Imaging Research and Technology from PE 0602605F.

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Major Thrust 1/Congressional Add	14.802	13.555	19.944	-	19.944
Description: Operate and upgrade MSSS to support development, demonstration, and integration of ground-based optical SSA technologies.					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p><i>FY 2011 Accomplishments:</i> Began refurbishment and upgrade of MSSS to accommodate SSA research and technology development and to maintain requirements for safety and security in accordance with Air Force regulations. Repaired inoperable motor on 3.5 meter telescope. Operated MSSS facility for development and demonstration of ground-based optical SSA technologies such as characterization and identification of space objects.</p> <p><i>FY 2012 Plans:</i> Refurbish and upgrade MSSS to accommodate SSA research and technology development and to maintain requirements for safety and security in accordance with Air Force regulations. Operate MSSS facility for development and demonstration of ground-based optical SSA technologies such as characterization and identification of space objects.</p> <p><i>FY 2013 Base Plans:</i> Maintain MSSS facility and experimental equipment in a mission-ready state. Perform recurring upgrades and refurbishment to keep facilities and equipment in good working order. Modernize the control system to allow MSSS to perform efficiently and reliably. Operate MSSS facility for development and demonstration of ground-based optical SSA technologies such as characterization and identification of space objects.</p> <p><i>FY 2013 OCO Plans:</i> N/A</p>					
<p><i>Title:</i> Major Thrust 2</p> <p><i>Description:</i> Develop and demonstrate a dual-use integrated sensor that can be used for identification of geosynchronous objects as well as other long-range applications.</p> <p><i>FY 2011 Accomplishments:</i> N/A</p> <p><i>FY 2012 Plans:</i> N/A</p> <p><i>FY 2013 Base Plans:</i> Begin development of a dual-use sensor for identification of objects in geosynchronous orbit.</p> <p><i>FY 2013 OCO Plans:</i></p>	-	-	9.312	-	9.312

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
N/A					
Accomplishments/Planned Programs Subtotals	14.802	13.555	29.256	-	29.256

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

E. Acquisition Strategy
N/A

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.