

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0603924F: <i>High Energy Laser Advanced Technology Program</i>							
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	1.779	1.122	-	-	-	-	-	-	-	Continuing	Continuing
635095: <i>High Energy Laser Advanced Technology Program</i>	1.779	1.122	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program funds Department of Defense (DoD) high energy laser (HEL) advanced technology development through the HEL Joint Technology Office (JTO). HEL weapons have many potential advantages including speed-of-light delivery, precision target engagement, significant magazine depth, low-cost per kill, and reduced logistics requirements. HEL weapons have the potential to perform a wide variety of military missions including defeat of high-speed, maneuvering anti-ship and anti-aircraft missiles and the ultra-precision negation of targets in urban environments with minimal collateral damage. This program is part of the overall DoD HEL Science and Technology program. 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 HEL capabilities and concepts.

B. Program Change Summary (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	1.847	1.122	1.237	-	1.237
Current President's Budget	1.779	1.122	-	-	-
Total Adjustments	-0.068	-	-1.237	-	-1.237
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.054	-			
• Other Adjustments	-0.014	-	-1.237	-	-1.237

Change Summary Explanation

FY11: Other Adjustments include -0.014 Congressional General Reductions

Decrease in FY13 is due to higher Department of Defense priorities.

C. Accomplishments/Planned Programs (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Title: Major Thrust 1.	1.779	1.122	-	-	-

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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 0603924F: <i>High Energy Laser Advanced Technology Program</i>							
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Description: Advance solid state laser development. Develop beam-control technologies for surface and air mission areas. FY 2011 Accomplishments: Initiated integration of a joint high-power beam director, with a 100 kilowatt-class laser device, in preparation for system tests in a field environment at High Energy Laser Systems Test Facility (HELSTF). FY 2012 Plans: Complete integrated systems field tests at HELSTF. Demonstrate solid-state laser capability with adaptive optics beam control architecture in a field environment against selected targets. FY 2013 Base Plans: Reduction due to higher Department of Defense priorities. FY 2013 OCO Plans: N/A											
Accomplishments/Planned Programs Subtotals							1.779	1.122	-	-	-
D. 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
• 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.											