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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 0603601F: <i>Conventional Weapons Technology</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	14.764	45.542	36.352	-	36.352	33.996	46.589	50.568	51.559	Continuing	Continuing
63670A: <i>Conventional Weapons Development</i>	14.764	45.542	36.352	-	36.352	33.996	46.589	50.568	51.559	Continuing	Continuing

Note

In FY 2013, changes are due to higher AF priorities.

A. Mission Description and Budget Item Justification

This program develops, demonstrates, and integrates ordnance and advanced guidance technologies for air-launched conventional weapons. The program includes development of conventional ordnance technologies including warheads, fuzes, and explosives; and development of advanced guidance technologies including seekers, navigation and control, and guidance. Technologies to be developed, demonstrated, and integrated include blast, fragmentation, penetration, low-collateral damage warheads, variable depth/location fuzing, precise guidance, and high performance and insensitive explosives. 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 develops and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.

<u>B. Program Change Summary (\$ in Millions)</u>	<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	15.755	54.042	26.852	-	26.852
Current President's Budget	14.764	45.542	36.352	-	36.352
Total Adjustments	-0.991	-8.500	9.500	-	9.500
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-8.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.473	-			
• SBIR/STTR Transfer	-0.438	-			
• Other Adjustments	-0.080	-	9.500	-	9.500

Change Summary Explanation

In FY11, Other Adjustments include: -0.080 Congressional General Reductions

Increase in FY13 is due to an increase in Air Force priority on munition concepts that increase the capacity and capability of fifth-generation aircraft.

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p>Title: Major Thrust 1</p> <p>Description: Develop and demonstrate ordnance technologies to improve conventional, air-delivered munitions. Specific technical areas of focus include fuzes, energetic materials, warheads, and integration.</p> <p>FY 2011 Accomplishments: Developed technologies for a conventional ordnance package capable of penetrating high performance concrete at velocities up to 2,500 feet per second.</p> <p>FY 2012 Plans: Continue developing technologies for a conventional ordnance package capable of penetrating high performance concrete at velocities up to 2,500 feet per second. Develop and demonstrate technologies and approaches that incorporate velocity augmentation capability for penetrating weapons. Develop an ordnance package that enables the warfighter to tailor the weapon effects for the target and its surrounding environment.</p> <p>FY 2013 Base Plans: Continue developing technologies for a conventional ordnance package capable of penetrating high performance concrete at velocities up to 2,500 feet per second. Continue developing and demonstrating technologies and approaches that incorporate velocity augmentation capability for penetrating weapons. Continue developing an ordnance package that enables the warfighter to tailor the weapon effects for the target and its surrounding environment.</p> <p>FY 2013 OCO Plans: N/A</p>		8.673	29.257	16.641	-	16.641
<p>Title: Major Thrust 2</p> <p>Description: Develop and demonstrate guidance technologies to improve the precision, controlled lethality, and flexibility of conventional, air-delivered munitions.</p> <p>FY 2011 Accomplishments: Demonstrated advanced guidance technologies to enable small guided munitions to attack multiple moving targets.</p> <p>FY 2012 Plans:</p>		1.434	10.015	4.246	-	4.246

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Continue demonstration of dynamic path planning and target engagement technologies to enable close controlled strike munitions concepts. Develop technology for precision weapon navigation in Global Positioning System (GPS)-degraded environments. FY 2013 Base Plans: Continue developing technology for precision weapon navigation in GPS-degraded environments. Develop technologies capable of guiding a high-speed strike weapon characterized by very high terminal speed and high end-game maneuverability. FY 2013 OCO Plans: N/A						
Title: Major Thrust 3 Description: Demonstrate advanced conventional munition concepts. These innovative concepts integrate ordnance, guidance, and carriage and release technologies to demonstrate a warfighter capability. FY 2011 Accomplishments: Developed missile technologies to defeat a broad range of small and highly agile air targets, as well as high value ground targets, such as enemy air defenses. Further developed a small, short-range precision-guided munition capable of attacking multiple moving targets. FY 2012 Plans: Continue developing missile technologies to defeat a broad range of small and highly agile air targets, as well as high value ground targets, such as enemy air defenses. Begin demonstration of technologies that enable a munition to provide effects tailorable to the target and surrounding environment. Further refine employment concepts and system technologies for high-speed penetrating weapons with velocity augmentation. Begin development of a munition concept to incorporate technologies for carriage and terminal impact at high-speed. Continue demonstration of technologies that enable a small, short-range precision guided munition to attack multiple moving targets. FY 2013 Base Plans: Continue developing missile technologies to defeat a broad range of small and highly agile air targets, as well as high value ground targets, such as enemy air defenses. Continue to refine employment concepts and system technologies for high-speed penetrating weapons with velocity augmentation. Continue development of a		4.657	6.270	15.465	-	15.465

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<u>C. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
munition concept to incorporate technologies for carriage and terminal impact at high-speed. Increase emphasis on munition concepts that increase the capacity and capability of fifth-generation aircraft. <i>FY 2013 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	14.764	45.542	36.352	-	36.352

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.