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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0603601F: Conventional Weapons Technology

BA 3: Advanced Technology Development (ATD)

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	-	44.057	36.352	33.996	-	33.996	43.589	46.601	47.585	48.459	Continuing	Continuing
63670A: Conventional Weapons Development	-	44.057	36.352	33.996	-	33.996	43.589	46.601	47.585	48.459	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This program develops, demonstrates, and integrates advanced ordnance and guidance technologies for air-launched conventional weapons. The program focuses on conventional ordnance component technologies such as warheads, fuzes, and explosives, as well as munition guidance component technologies such as navigation and control systems and seekers. Technologies to be developed, demonstrated, and integrated address blast, fragmentation, penetration, low-collateral damage, variable depth/location fuzing, precise guidance, and high performance and insensitive explosives. 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 develops 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	45.542	36.352	33.996	-	33.996
Current President's Budget	44.057	36.352	33.996	-	33.996
Total Adjustments	-1.485	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	-0.574	0.000			
SBIR/STTR Transfer	-0.911	0.000			
Other Adjustments	0.000	0.000	0.000	-	0.000
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013 FY 2014

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Title: Ordnance Technologies

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28.307

18.000

6.500

^{##} The FY 2014 OCO Request will be submitted at a later date

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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 0603601F: Conventional Weapons Technology	,		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Description: Develop and demonstrate ordnance technologies to improve technical areas of focus include fuzes, energetic materials, and warheads	·			
FY 2012 Accomplishments: Demonstrated survivability of components for a conventional ordnance parameter with high-speed sled tests. Performed system trades to assess penetrating warhead. Developed an ordnance package that enables the its surrounding environment.	approaches for incorporating velocity boosting for a			
FY 2013 Plans: Continue developing technologies for a conventional ordnance package of velocities up to 2,500 feet per second. Continue developing and demonst velocity augmentation capability for penetrating weapons. Continue developing to tailor the weapon effects for the target and its surrounding environment reliability of penetrating weapons.	strating technologies and approaches that incorporate eloping an ordnance package that enables the warfighter			
FY 2014 Plans: Complete demonstrations of a conventional ordnance package capable of up to 2,500 feet per second. Complete demonstration of technologies that penetrating weapons. Continue developing an ordnance package that entarget and its surrounding environment. Develop alternate fuze technologies.	at incorporate velocity augmentation capability for nables the warfighter to tailor the weapon effects for the			
Title: Guidance Technologies		9.688	7.800	11.700
Description: Develop and demonstrate guidance technologies to improve the precision, controlled lethality, and flexibility of conventional, air-delivered munitions. Specific technical areas include precision navigation and terminal seekers.				
FY 2012 Accomplishments: Completed demonstration of dynamic path planning and target engagement concepts. Developed algorithms for precision weapon navigation in Glob strict control of angle of attack.				
FY 2013 Plans: Continue developing technology for precision weapon navigation in GPS- of guiding a high-speed strike weapon characterized by very high terminal				
FY 2014 Plans:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force			April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603601F: Conventional Weapons Technology			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Demonstrate simulations of weapon navigation and control necessary for Demonstrate technologies for precision weapon navigation in GPS-degrapable of guiding a high-speed strike weapon characterized by very high	raded environments. Continue to develop technologies			
Title: Advanced Munition Concept Technologies			10.552	15.796
Description: Demonstrate advanced conventional munition concepts. These innovative concepts integrate ordnance, guidance, and carriage and release technologies to demonstrate warfighter capability.				
FY 2012 Accomplishments: Began demonstrating technologies that enable a munition to provide eff Refined employment concepts and system technologies for high-speed Continued developing missile technologies, primarily focused on increasumall and highly agile air targets, as well as high value ground targets, demonstration of the guidance, navigation and control functions to attach precision guided submunitions.	penetrating weapons with velocity augmentation. sing kinematic performance, to defeat a broad range of such as enemy air defenses. Performed an integrated			
FY 2013 Plans: Complete development of missile technologies to defeat a broad range ground targets, such as enemy air defenses. Continue to refine employ penetrating weapons with velocity augmentation. Continue developmer carriage and terminal impact at high-speed. Increase emphasis on mur fifth-generation aircraft.	ment concepts and system technologies for high-speed nt of a munition concept to incorporate technologies for			
FY 2014 Plans: Complete demonstration of technologies for high-speed penetrating were cooperative control of small weapons to produce scalable effects to increduce per penetration of technologies for tack for a potential follow-on acquisition program.	rease the capacity and capability of fifth-generation aircraft.			
	Accomplishments/Planned Programs Subtotals	44.057	36.352	33.996

N/A

Remarks

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	·
3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)	PE 0603601F: Conventional Weapons Tech	hnology
E. Acquisition Strategy		
N/A		
F. Performance Metrics		
Please refer to the Performance Base Budget Overview Book for info		how those resources are contributing to Air
Force performance goals and most importantly, how they contribute	to our mission.	

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