Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 3: Advanced PE 0603601F I Conventional Weapons Technology

Technology Development (ATD)

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	32.518	33.996	42.046	-	42.046	50.047	48.077	55.459	58.411	Continuing	Continuing
63670A: Conventional Weapons Development	-	32.518	33.996	42.046	-	42.046	50.047	48.077	55.459	58.411	Continuing	Continuing

[#] The FY 2015 OCO Request will be submitted at a later date.

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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	36.352	33.996	43.589	-	43.589
Current President's Budget	32.518	33.996	42.046	-	42.046
Total Adjustments	-3.834	-	-1.543	-	-1.543
 Congressional General Reductions 	-0.048	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.780	-			
Other Adjustments	-3.006	-	-1.543	-	-1.543

Change Summary Explanation

Decrease in FY13 Other Adjustments was due to Sequestration.

Decrease in FY 2015 is due to higher DoD priorities.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Ordnance Technologies	16.008	6.500	8.000

PE 0603601F: Conventional Weapons Technology Air Force

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5.1	OLAGGII ILD			
Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force Date: March 2014				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 0603601F / Conventional Weapons Technology	,		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Description: Develop and demonstrate ordnance technologies to improve con technical areas of focus include fuzes, energetic materials, and warheads.	ventional, air-delivered munitions. Specific			
FY 2013 Accomplishments: Developed technologies for a conventional ordnance package capable of pene up to 2,500 feet per second. Developed and demonstrated technologies to incomplete weapons. Continued developing an ordnance package that enables the warfig its surrounding environment. Investigated alternate fuzing concepts to increase	orporate velocity augmentation for penetrating hter to tailor the weapon effects for the target and			
FY 2014 Plans: Complete demonstrations of a conventional ordnance package capable of pene up to 2,500 feet per second. Complete demonstration of technologies that incorpenetrating weapons. Continue developing an ordnance package that enables target and its surrounding environment. Develop alternate fuze technologies to	orporate velocity augmentation capability for sthe warfighter to tailor the weapon effects for the			
FY 2015 Plans: Demonstrate alternate fuzing technologies to increase the reliability of penetrat technologies that enable high-speed strike weapon concepts through use of refuels, and focused fragmentation. Complete the development of an ordnance process weapon effects for the target and its surrounding environment.	active composite cases, dual use of propulsion			
Title: Guidance Technologies		7.005	11.700	7.000
Description: Develop and demonstrate guidance technologies to improve the conventional, air-delivered munitions. Specific technical areas include precisio				
FY 2013 Accomplishments: Continued to develop technology for precision weapon navigation in GPS-degrapable of guiding a high-speed strike weapon characterized by very high terms				
FY 2014 Plans: Demonstrate simulations of weapon navigation and control necessary for pene Demonstrate technologies for precision weapon navigation in GPS-degraded e capable of guiding a high-speed strike weapon characterized by very high term	nvironments. Continue to develop technologies			
FY 2015 Plans:				

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O.	IOLAGGII ILD				
Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force			Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 0603601F / Conventional Weapons Technology	·			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Continue to develop and assess technologies capable of guiding a high-speed speed and high end-game maneuverability.	strike weapon characterized by very high terminal				
Title: Advanced Munition Concept Technologies		9.505	15.796	27.046	
Description: Demonstrate advanced conventional munition concepts. These and carriage and release technologies to demonstrate warfighter capability. FY 2013 Accomplishments: Completed the development of missile technologies to defeat a broad range of value ground targets, such as enemy air defenses. Continued to refine employ high-speed penetrating weapons with velocity augmentation. Continued the detechnologies for carriage and terminal impact at high speed. Increased emphasis and capability of fifth-generation aircraft.	f small and highly agile air targets, as well as high yment concepts and system technologies for evelopment of a munition concept to incorporate				
FY 2014 Plans: Complete demonstration of technologies for high-speed penetrating weapons of cooperative control of small weapons to produce scalable effects to increase the Develop and demonstrate ordnance and guidance technologies for tactically refor a potential follow-on acquisition program.	ne capacity and capability of fifth-generation aircraft.				
FY 2015 Plans: Conduct relevant long range strike weapon technology demonstration to reduce Continue the development of a munition concept to incorporate technologies for					

Continue investigating concepts for cooperative control of small weapons to produce scalable effects to increase the capacity and capability of fifth-generation aircraft. Demonstrate the ability to articulate the trades and synergies of kinetic energy and directed energy weapons by incorporating higher fidelity methodologies into systems level analysis, including the joint weapons

effectiveness analyses. Demonstrate weapon integration concept for air target engagement.

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

N/A

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Accomplishments/Planned Programs Subtotals

32.518

33.996

42.046

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 0603601F / Conventional Weapons Technology	,
F. Performance Metrics		
Please refer to the Performance Base Budget Overview Book for information of Force performance goals and most importantly, how they contribute to our mis		sources are contributing to Air

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