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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605214F I Ground Attack Weapons Fuze Development							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	3.477	0.937	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.414
655313: Hard Target Void Sensing Fuze	-	3.477	0.937	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.414
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program was created to include the whole spectrum of general purpose and specialized fuze development and integration of advanced precision, navigation, and timing (PNT) capabilities (i.e., GPS, non-GPS, optical, passive, active, etc.), resulting in commodity fuzes for use with air-to-ground weapons.

The Hard Target Void Sensing Fuze (HTVSF) is an advanced system designed to provide fuzing and void sensing functions for legacy penetrator weapons to destroy hardened targets protected by multiple layers of soil and/or reinforced concrete. The HTVSF will also provide in-flight cockpit programmability, safing and arming, multi-function (time delay and void sensing) and multi-delay arming. Program Element funding currently supports the Engineering, Manufacturing, and Development (EMD) effort for HTVSF.

HTVSF completed Milestone C in May 2015 and Low-Rate Initial Production (LRIP 1) was awarded in Jul 2015. EMD funding is currently needed in FY16-FY17 to complete BLU-113 follow-on testing and post-Milestone C development requirements as derived from the Milestone C Decision.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018 Base</u>	<u>FY 2018 OCO</u>	<u>FY 2018 Total</u>
Previous President's Budget	3.598	0.937	0.000	0.000	0.000
Current President's Budget	3.477	0.937	0.000	0.000	0.000
Total Adjustments	-0.121	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.121	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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<u>Change Summary Explanation</u> No Significant Program Changes											
C. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018 Base						
Title: HTVSF Test Support			3.477	0.937	0.000						
Description: BLU-113 follow-on testing; post-Milestone C (MS C) development.											
FY 2016 Accomplishments: Continued BLU-113 follow-on testing and post-MS C development requirements as derived from the MS C decision.											
FY 2017 Plans: Completed BLU-113 follow-on testing and post-MS C development requirements as derived from the MS C decision.											
FY 2018 Base Plans: N/A											
FY 2018 OCO Plans: N/A											
Accomplishments/Planned Programs Subtotals			3.477	0.937	0.000						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• PAAF: BA01: Line Item # 356120: Fuzes	17.000	22.243	31.537	0.000	31.537	0.000	0.000	0.000	0.000	0.000	0.000
Remarks											
- PAAF dollars in War Reserve Materiel (WRM; Fuzes) fund initial procurement of 425/475/1,575/1,620 units for FY15 - FY18. - Navy PE 050120 to fund 50/450 units FY15 and FY17.											
E. Acquisition Strategy											
EMD Awarded to Alliant TechSystems Operations LLC											
Contract completion date: 31 Oct 2015											
Fixed Price Incentive Firm											

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Contract Length - 55 months		
<u>F. Performance Metrics</u> 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.		