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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605214F I <i>Ground Attack Weapons Fuze Development</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	5.177	3.598	0.937	0.000	0.937	0.000	0.000	0.000	0.000	0.000	9.712
655313: <i>Hard Target Void Sensing Fuze</i>	-	5.177	3.598	0.937	0.000	0.937	0.000	0.000	0.000	0.000	0.000	9.712
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY 2015, 655313, Hard Target Void Sensing Fuze, efforts were transferred from PE 0604635F, Ground Attack Weapons Fuze Development, 645312, Hard Target Void Sensing Fuze, in order to properly align the funds in the correct Budget Activity, BA05, which supports Engineering, Manufacturing, and Development (EMD).

A. Mission Description and Budget Item Justification

This program was created to include the whole spectrum of general purpose and specialized fuze development, 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-109/113 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.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	5.332	3.598	0.946	0.000	0.946
Current President's Budget	5.177	3.598	0.937	0.000	0.937
Total Adjustments	-0.155	0.000	-0.009	0.000	-0.009
• 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	-0.155	0.000			
• Other Adjustments	0.000	0.000	-0.009	0.000	-0.009

Change Summary Explanation

No Significant Program Changes

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: HTVSF Test Support	5.177	3.598	0.937	0.000	0.937
Description: BLU-109/BLU-113 follow-on testing; post-Milestone C (MS C) development.					
FY 2015 Accomplishments: Continued Operational Test Support; also BLU-109/BLU-113 follow-on testing and post-MS C development requirements as derived from the MS C decision					
FY 2016 Plans: Continue BLU-109/BLU-113 follow-on testing and post-MS C development requirements as derived from the MS C decision					
FY 2017 Base Plans: Complete BLU-109/BLU-113 follow-on testing and post-MS C development requirements as derived from the MS C decision					
FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	5.177	3.598	0.937	0.000	0.937

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE: BA04: PE 0604635F: <i>Ground Attack Weapons Fuze Development</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
• PAAF: BA01: Line Item # 356120: <i>Fuzes</i>	13.280	17.000	22.243	0.000	22.243	31.537	0.000	0.000	0.000	0.000	0.000

Remarks

- PAAF dollars in War Reserve Materiel (WRM; Fuzes) fund initial procurement of 151/475/1,575/2,274 units for FY15 - FY18.
- Navy PE 050120 to fund 50/225/225 units FY16-FY18.

E. Acquisition Strategy

EMD Awarded to Alliant TechSystems Operations LLC
 Contract completion date: 31 Oct 2015
 Fixed Price Incentive Firm
 Contract Length - 55 months

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605214F / <i>Ground Attack Weapons Fuze Development</i>	Project (Number/Name) 655313 / <i>Hard Target Void Sensing Fuze</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
EMD Contractor	C/CPIF	Orbital ATK : Rocket Ctr, WV	-	0.430	Dec 2015	0.000		0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	0.430		0.000		0.000		0.000		0.000	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Administration	Various	EGLIN AFB : EGLIN AFB, FL	-	0.670	Oct 2014	0.000		0.000		0.000		0.000	0.000	0.670	-
Subtotal			-	0.670		0.000		0.000		0.000		0.000	0.000	0.670	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Target build and sled/flight test	Various	Eglin AFB (96 TW) / Holloman AFB / White Sands Missile Range : Various, US	-	4.077	Jan 2015	3.598	Jan 2016	0.937	Jan 2017	0.000		0.937	0.000	8.612	-
Subtotal			-	4.077		3.598		0.937		0.000		0.937	0.000	8.612	-

Remarks
 Various locations to include: Eglin AFB, Fort Walton Beach FL; Holloman AFB, Alamogordo NM; White Sands Missile Range, Las Cruces NM

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

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	Prior Years	FY 2015	FY 2016		FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	5.177	3.598		0.937	0.000	0.937	-	-	-

Remarks
 HTVSF Completed Milestone C in Apr 2015 and Low-Rate Initial Production (LRIP) was awarded in Jul 2015. \$3.598M in FY16 EMD funding and \$.946M in FY17 funding is needed to complete BLU-109/113 follow-on testing and post Milestone C development requirements as derived from the Milestone C Decision.

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605214F / <i>Ground Attack Weapons Fuze Development</i>	Project (Number/Name) 655313 / <i>Hard Target Void Sensing Fuze</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Engineering, Manufacturing, and Development (EMD) Design FA8681-11-C-0039 25 Mar 2011-31 Mar 2015 Extension of EMD	1	2015	2	2015
GBU-28 Sled Test	2	2015	2	2015
BLU-113 Flight Test DT	2	2015	2	2015
Milestone C	3	2015	3	2015
Follow-on Testing/Development	3	2015	1	2017

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