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PE NUMBER: 0604635F
 PE TITLE: Ground Attack Weapons Fuze Development

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0604635F Ground Attack Weapons Fuze Development
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	18.778	0.000	0.000	0.000	0.000	0.000	0.000	85.800
5312 Hard Target Void Sensing Fuze	0.000	0.000	18.778	0.000	0.000	0.000	0.000	0.000	0.000	85.800

In FY 2010, Project 645312, Hard target Void Sensing Fuze is a new start effort

(U) A. Mission Description and Budget Item Justification

The Hard Target Void Sensing Fuze (HTVSF) is an advanced system designed to provide fuzing and void sensing functions for a weapon to penetrate and destroy hardened targets protected by multiple layers of soil and/or reinforced concrete. The HTVS Fuze shall also provide in-flight cockpit programmability, safing and arming, multi-function (time delay and void sensing) and multi-delay arming.

This Program Element was created to include the whole spectrum of fuze development and is positioned in Budget Activity 4 - Advanced Component Development and Prototypes (ACD&P).

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget			
(U) Current PBR/President's Budget	0.000	0.000	18.778
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			

(U) Significant Program Changes:

FY 2010 and FY 2011 funding includes follow-on effort to the the Hard Target Void Sensing Fuze (HTVSF) Joint Capability Technology Demonstration (JCTD) previously funded in PE 0604602F, Armament Ordnance Development.

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)				PE NUMBER AND TITLE 0604635F Ground Attack Weapons Fuze Development				PROJECT NUMBER AND TITLE 5312 Hard Target Void Sensing Fuze			
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total	
5312 Hard Target Void Sensing Fuze	0.000	0.000	18.778	0.000	0.000	0.000	0.000	0.000	0.000	85.800	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

In FY 2010, Project 645312, Hard target Void Sensing Fuze is a new start effort

(U) **A. Mission Description and Budget Item Justification**

The Hard Target Void Sensing Fuze (HTVSF) is an advanced system designed to provide fuzing and void sensing functions for a weapon to penetrate and destroy hardened targets protected by multiple layers of soil and/or reinforced concrete. The HTVS Fuze shall also provide in-flight cockpit programmability, safing and arming, multi-function (time delay and void sensing) and multi-delay arming.

This Program Element was created to include the whole spectrum of fuze development and is positioned in Budget Activity 4 - Advanced Component Development and Prototypes (ACD&P).

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	FY 2008	FY 2009	FY 2010
(U) System Development and Demonstration: conduct SDD follow-on effort to HTVSF Joint Capability Technology Demonstration -- engineering, prototype hardware, test and evaluation	0.000	0.000	17.194
(U) Management/analysis support: including Critical Design Reviews			0.798
(U) Test: build "hard" targets/prep for sled/flight test range events			0.000
(U) External Support (ManTech, StratCom, AFOTEC, Safety)			0.000
(U) ECO & GFE: data recorders, bomb cases/warheads, tailkits, telemetry sets			0.786
(U) Total Cost	0.000	0.000	18.778

(U) **C. Other Program Funding Summary (\$ in Millions)**

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U) RDT&E AF, PE 0604602F, Armament Ordnance Development, R-1 Line Item No. 72	4.111	0.000	10.100	0.000	0.000	0.000	0.000	0.000	11.600	25.811
(U) PAAF, PE 0208030F, WRM Ammunition	0.000	0.000	0.000	0.000	0.000	18.750	37.500	38.500	Continuing	TBD

PAAF dollars fund initial procurement of 250/500/500 units FY 2013/FY 2014/FY 2015.

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(U) **D. Acquisition Strategy**

SDD – Sole Source Contract to JCTD Winner:
 Cost Plus Fixed Fee W/ Incentives for Cost, Schedule, and Performance (small FF, larger incentive at end)
 Estimated Contract Length - 33 months
 Starting at contract award: 6 month Delta CDRs start July 10

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Exhibit R-3, RDT&E Project Cost Analysis

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04 Advanced Component Development and Prototypes (ACD&P)	0604635F Ground Attack Weapons Fuze Development	5312 Hard Target Void Sensing Fuze

<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u> Alliant Techsystems or Thales Missile Electronics	CPFF w/ Incentives	Minneapolis, MN, or Basingstroke, UK						17.194	Jul-10	24.170	41.364	TBD
Subtotal Product Development			0.000	0.000		0.000		17.194		24.170	41.364	TBD
Remarks:												
<u>(U) Support</u> A&AS	In-house	Eglin AFB, FL						0.172		0.900	1.072	
External (ManTech, StratCom, AFOTEC, Safety support)	In-house	Various						0.000		0.400	0.400	
ECO & GFE	In-house	Eglin AFB, FL						0.786		0.330	1.116	
Subtotal Support			0.000	0.000		0.000		0.958		1.630	2.588	0.000
Remarks:												
<u>(U) Test & Evaluation</u> 46th Test Wing	In-house	Various						0.000		6.700	6.700	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		6.700	6.700	0.000
Remarks:												
<u>(U) Management</u> 679 ARSS	In-house	Eglin AFB, FL						0.626		0.800	1.426	
Subtotal Management			0.000	0.000		0.000		0.626		0.800	1.426	0.000
Remarks:												
<u>(U) Total Cost</u>			0.000	0.000		0.000		18.778		33.300	52.078	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

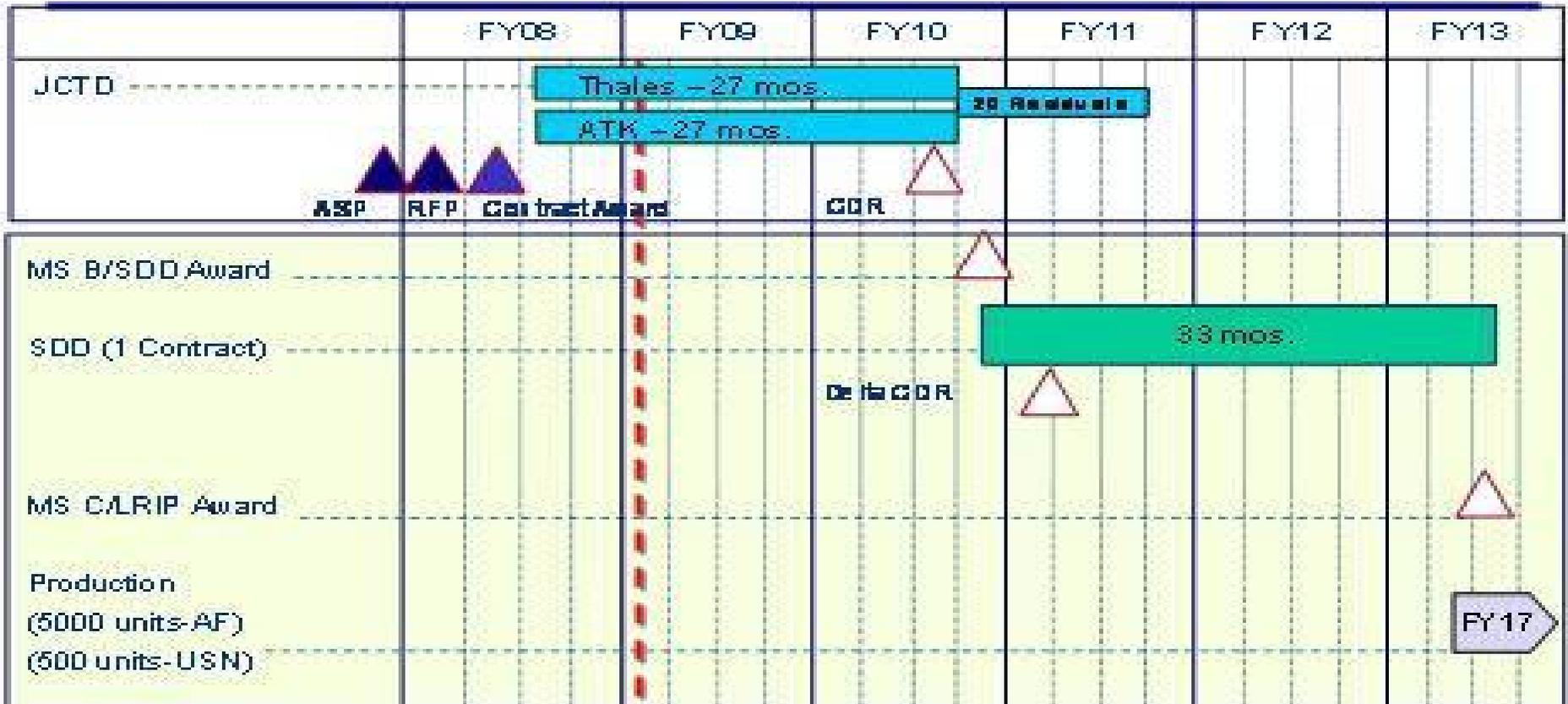
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Hard Target Void Sensing Fuze Top-Level Schedule



Integrity - Service - Excellence

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Exhibit R-4a, RDT&E Schedule Detail	DATE May 2009
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	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Schedule Profile			
(U) CDR (JCTD event; feeds 1st Delta CDR)			4Q
(U) Order & Build Test Hardware			
(U) Delta CDRs			
(U) MS B / SDD Award			4Q
(U) Start of Fuze Qualification			