

UNCLASSIFIED

PE NUMBER: 0604327F

PE TITLE: Hardened Target Munitions

Exhibit R-2, RDT&E Budget Item Justification

DATE

May 2009

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604327F Hardened Target Munitions

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	20.891	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5341 Direct Strike Penetrator Systems	0.000	0.000	20.891	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

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

Hard and Deeply Buried Target Defeat System (HDBTDS) program is an effort to hold at risk those highest priority assets essential to enemy's war with multiple layers of reinforced concrete, rock rubble, and/or earth overburden. Other hardened targets include operations within caves, tunnels, and mountains built using rapidly improving construction equipment exported by allies and adversaries on a large scale. (Examples include enemy command and control facilities, air defense facilities, facilities for production, storage, and deployment of weapons including weapons of mass destruction, surface to surface missile launch sites, aircraft storage sites, artillery sites.) Potential solutions include (but are not limited to) Special Forces, conventional short or long range ballistic missiles (land or sea launched), cruise missiles, direct attack munitions, and standoff weapons.

Direct Strike Penetrator Systems includes development of an advanced precision guided penetrator munition that will provide the Air Force with an improved capability using air-to-surface conventional munitions to attack HDBTs, such as bunker and tunnel facilities, with fewer weapons and number of missions necessary to defeat targets and increase overall survivability. The system will hold at risk those highest priority assets essential to the enemy's warfighting ability, which are heavily defended and protected, providing a critical global strike capability not currently met by inventory conventional weapons.

This program is in Budget Activity 4 , Advanced Component Development and Prototypes because RDT&E include advanced component development activities.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	0.000	20.891
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions	0.000	0.000	
Congressional Rescissions	0.000	0.000	
Congressional Increases	0.000	0.000	
Reprogrammings	0.000	0.000	
SBIR/STTR Transfer	0.000	0.000	

(U) **Significant Program Changes:**

New Start - Project 5341: Funding added in FY10 for Direct Strike Penetrator Systems.

Exhibit R-2a, RDT&E Project Justification

DATE

May 2009

BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
04 Advanced Component Development and Prototypes (ACD&P)					0604327F Hardened Target Munitions			5341 Direct Strike Penetrator Systems		
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
5341 Direct Strike Penetrator Systems	0.000	0.000	20.891	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

Hard and Deeply Buried Target Defeat System (HDBTDS) program is an effort to hold at risk those highest priority assets essential to enemy's war with multiple layers of reinforced concrete, rock rubble, and/or earth overburden. Other hardened targets include operations within caves, tunnels, and mountains built using rapidly improving construction equipment exported by allies and adversaries on a large scale. (Examples include enemy command and control facilities, air defense facilities, facilities for production, storage, and deployment of weapons including weapons of mass destruction, surface to surface missile launch sites, aircraft storage sites, artillery sites.) Potential solutions include (but are not limited to) Special Forces, conventional short or long range ballistic missiles (land or sea launched), cruise missiles, direct attack munitions, and standoff weapons.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Massive Ordnance Penetrator (MOP) Weapon Development	0.000	0.000	11.171
(U) Warhead Forging Process Development	0.000	0.000	4.420
(U) Qualification Testing	0.000	0.000	3.700
(U) System Test & Evaluation	0.000	0.000	0.000
(U) Flight Test Assets Fabrication	0.000	0.000	0.000
(U) Residual MOP Weapon Fabrication	0.000	0.000	0.000
(U) Program Office Support	0.000	0.000	1.600
(U) Total Cost	0.000	0.000	20.891

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

	<u>FY 2008</u> <u>Actual</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>FY 2014</u> <u>Estimate</u>	<u>FY 2015</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) PE 0604240F B-2 Advanced Technology Bomber	10.000	9.000	0.000	0.000	0.000	0.000	0.000	0.000		TBD

Exhibit R-2a, RDT&E Project Justification

DATE

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BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

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0604327F Hardened Target Munitions

PROJECT NUMBER AND TITLE

5341 Direct Strike Penetrator
Systems(U) C. Other Program Funding Summary (\$ in Millions)

(U) PE 0101127F B-2 Squadrons	0.000	0.000	18.300	0.000	0.000	0.000	0.000	0.000	TBD
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(U) D. Acquisition Strategy

Quick reaction capability with a sole source firm fixed price contract to a single contractor.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE May 2009		
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)					PE NUMBER AND TITLE 0604327F Hardened Target Munitions					PROJECT NUMBER AND TITLE 5341 Direct Strike Penetrator Systems		
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
Weapon Development	Sole Source FFP	Boeing (St Louis)						11.171	Dec-09		11.171	TBD
Warhead Forging Process Development	Sole Source FFP	Boeing (St Louis)						4.420	Dec-09		4.420	TBD
Qualification Testing	Sole Source FFP	Boeing (St Louis)						3.700	Dec-09		3.700	TBD
Subtotal Product Development			0.000	0.000		0.000		19.291		0.000	19.291	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
System Test & Evaluation	N/A	Eglin AFB, FL									0.000	TBD
Flight Test Assets Fabrication	Sole Source FFP	Boeing (St. Louis)									0.000	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) <u>Residual Weapons</u>												
Residual MOP Fabrication	Sole Source FFP	Boeing (St Louis)									0.000	TBD
Subtotal Residual Weapons			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) <u>Management</u>												
AAC/XR	N/A	Eglin AFB, FL						1.600			1.600	TBD
Subtotal Management			0.000	0.000		0.000		1.600		0.000	1.600	TBD
Remarks:												
(U) Total Cost			0.000	0.000		0.000		20.891		0.000	20.891	TBD

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Exhibit R-3 (PE 0604327F)

Exhibit R-4, RDT&E Schedule Profile

DATE

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PROJECT NUMBER AND TITLE

5341 Direct Strike Penetrator
Systems

MOP Schedule

Current funding in FY10 only for design modification and qualification testing of the DTRA developed weapon. Schedule in FY11 and beyond TBD

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Exhibit R-4a, RDT&E Schedule Detail			DATE May 2009
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0604327F Hardened Target Munitions	PROJECT NUMBER AND TITLE 5341 Direct Strike Penetrator Systems	
(U) <u>Schedule Profile</u>		<u>FY 2008</u>	<u>FY 2009</u>
(U) Design Modification & Qualification Testing			<u>FY 2010</u> 2-4Q