

UNCLASSIFIED

PE NUMBER: 0604327F
 PE TITLE: Hardened Target Munitions

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|---|------------------------------|
| Exhibit R-2, RDT&E Budget Item Justification | DATE February 2007 |
|---|------------------------------|

| | |
|---|---|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604327F Hardened Target Munitions |
|---|---|

| Cost (\$ in Millions) | FY 2006 Actual | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total |
|--|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|
| Total Program Element (PE) Cost | 3.854 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 22.425 |
| 4641 Hard and Deeply Buried Target Defeat System (HDBTDS) | 3.854 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 22.425 |

(U) **A. Mission Description and Budget Item Justification**
 FY06 funding is provided in language from the Congressional Authorization Report that addresses a Penetrator Study. Hard and Deeply Buried Targets (HDBTs) pose a threat to the national security and currently the Air Force does not have the capability to hold many of these targets at risk. This study will evaluate the feasibility of various options for penetrator weapons or other concepts that could be used to hold HDBTs at risk. The study will include a sled test, an analysis of the physics of penetrating geologic media, and an analysis of critical weapon technologies and weapon components.

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

| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--------------------------------------|----------------|----------------|----------------|----------------|
| (U) Previous President's Budget | 3.943 | | | |
| (U) Current PBR/President's Budget | 3.854 | | | |
| (U) Total Adjustments | -0.089 | | | |
| (U) Congressional Program Reductions | | | | |
| Congressional Rescissions | | | | |
| Congressional Increases | | | | |
| Reprogrammings | | | | |
| SBIR/STTR Transfer | -0.089 | | | |

(U) **Significant Program Changes:**

Exhibit R-2a, RDT&E Project Justification

DATE
February 2007

| | | | | | | | | | | |
|--|-------------------|---------------------|---------------------|--|---------------------|---------------------|--|---------------------|---------------------|--------|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | | | | PE NUMBER AND TITLE 0604327F Hardened Target Munitions | | | PROJECT NUMBER AND TITLE 4641 Hard and Deeply Buried Target Defeat System (HDBTDS) | | | |
| Cost (\$ in Millions) | FY 2006 Actual | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total |
| 4641 Hard and Deeply Buried Target Defeat System (HDBTDS) | 3.854 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 22.425 |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

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

FY06 funding is provided in language from the Congressional Authorization Report that addresses a Penetrator Study. Hard and Deeply Buried Targets (HDBTs) pose a threat to the national security and currently the Air Force does not have the capability to hold many of these targets at risk. This study will evaluate the feasibility of various options for penetrator weapons or other concepts that could be used to hold HDBTs at risk. The study will include a sled test, an analysis of the physics of penetrating geologic media, and an analysis of critical weapon technologies and weapon components.

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

| | | | | |
|---|----------------|----------------|----------------|----------------|
| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
| (U) Physics of Penetrating Geologic Media Study | 3.854 | | | |
| (U) Total Cost | 3.854 | 0.000 | 0.000 | 0.000 |

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

| | | | | | | | | | | |
|--|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>Cost to</u> | <u>Total Cost</u> |
| | <u>Actual</u> | <u>Estimate</u> | <u>Complete</u> | |

(U) N/A

(U) **D. Acquisition Strategy**

FY06 Congressional plus up will accomplish additional study efforts, to include hardware testing, to account for changes to assumptions, intelligence and technology since completion of the HDBT AoA in order to increase the target set held at risk. Also included will be the effort to accomplish a new capabilities development document (CDD) and integration office costs to coordinate and publish the CDD.

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2007

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|--|--|--|
| BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) | PE NUMBER AND TITLE 0604327F Hardened Target Munitions | PROJECT NUMBER AND TITLE 4641 Hard and Deeply Buried Target Defeat System (HDBTDS) |
|--|--|--|

| (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 2006 Cost</u> | <u>FY 2006 Cost</u> | <u>FY 2006 Award Date</u> | <u>FY 2007 Cost</u> | <u>FY 2007 Award Date</u> | <u>FY 2008 Cost</u> | <u>FY 2008 Award Date</u> | <u>FY 2009 Cost</u> | <u>FY 2009 Award Date</u> | <u>Cost to Complete</u> | <u>Total Cost</u> | <u>Target Value of Contract</u> |
|--|-----------------------------------|---|------------------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|-------------------------|-------------------|---------------------------------|
| (U) <u>Capability Integration</u> | | | | | | | | | | | | | | |
| Penetrator Study | | | | 3.854 | | | | | | | | 0.000 | 3.854 | 0.000 |
| Subtotal Capability Integration | | | 0.000 | 3.854 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.854 | 0.000 |
| Remarks: | | | | | | | | | | | | | | |
| (U) Total Cost | | | 0.000 | 3.854 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 3.854 | 0.000 |

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2007

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

**0604327F Hardened Target
Munitions**

PROJECT NUMBER AND TITLE

**4641 Hard and Deeply Buried Target
Defeat System (HDBTDS)**

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Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2007

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0604327F Hardened Target
Munitions

PROJECT NUMBER AND TITLE

4641 Hard and Deeply Buried Target
Defeat System (HDBTDS)

(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

(U) Penetrator Study

2-4Q