

UNCLASSIFIED

PE NUMBER: 0604856F
 PE TITLE: Common Aero Vehicle

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 0604856F Common Aero Vehicle
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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	3.695	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A012 Common Aerospace Vehicle	3.695	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The Prompt Global Strike (PGS) Mission Needs Statement (MNS) and follow-on PGS Initial Capabilities Document (ICD) identify the warfighter's need for a capability to strike globally, precisely, and rapidly, with kinetic effects, against high-payoff, time-sensitive targets in a single or multi-theater environment, when US and Allied forces have no permanent military presence or only limited infrastructure in a region, regardless of anti-access threats.

In December 2002 the DepSecDef directed the Air Force and Defense Advanced Research Projects Agency (DARPA) to establish a joint program office, named Falcon, to accelerate the advanced technology efforts that could be leveraged for PGS. As a result of FY2005 Appropriations language prohibiting weaponization, CAV was redesignated the Hypersonic Technology Vehicle (HTV). The CAV PE funds the Air Force cost share for the HTV program culminating with two flight tests in 2009.

The FY2008 Appropriations and Authorizations Acts noted the value of developing conventional prompt global strike technologies using a synergistic approach. Both Acts directed the consolidation of Navy & AF FY2008 PGS funding into a defense-wide PGS PE (0604165D8Z) under the cognizance of OSD AT&L. The FY2009 PB remained consistent with this direction by transferring all outyear funding from PE 0604856F into PE 0604165D8Z.

The FY2008 Appropriations Act added funds to PE 0604856F in FY2008 for Ballistic Missile Technology development. BMT funds were added directly to PE 0604856F and were not transferred to the defense-wide PE.

This program is Budget Activity 4, Advanced Component Development and Prototypes (ACDP), because it involves evaluating integrated technologies in as realistic an operating environment as possible to assess the performance or cost reduction potential of advanced technology.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	3.695	0.000	0.000
(U) Current PBR/President's Budget	3.695	0.000	0.000
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	0.000		
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			

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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
A012 Common Aerospace Vehicle	3.695	0.000	0.000	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

The Prompt Global Strike (PGS) Mission Needs Statement (MNS) and follow-on PGS Initial Capabilities Document (ICD) identify the warfighter's need for a capability to strike globally, precisely, and rapidly, with kinetic effects, against high-payoff, time-sensitive targets in a single or multi-theater environment, when US and Allied forces have no permanent military presence or only limited infrastructure in a region, regardless of anti-access threats.

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This program is Budget Activity 4, Advanced Component Development and Prototypes (ACDP), because it involves evaluating integrated technologies in as realistic an operating environment as possible to assess the performance or cost reduction potential of advanced technology.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Ballistic Missile Technology development (Congressional Add)	3.695		
(U) Total Cost	3.695	0.000	0.000

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

	<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>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Other APPN										
(U) Defensewide RDT&E, PE 0604165D8Z, PGS	99.364	74.572	169.022	112.975	81.000	82.300	83.946	85.625	Continuing	TBD
(U) Defensewide RDT&E, PE 0603285E, Falcon	23.900	11.000								34.900

Exhibit R-2a, RDT&E Project Justification

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PROJECT NUMBER AND TITLE

A012 Common Aerospace Vehicle**(U) C. Other Program Funding Summary (\$ in Millions)**

FY2009 Congressional Reduction PE 0604165D8Z -- \$43M

(U) D. Acquisition Strategy

HTV efforts will be executed by the joint AF/DARPA Falcon Program Office.

BMT Congressional Add will be executed by SMC/XR and will, as much as possible, coordinate efforts with existing programs:

- BMT Strategic Resonating Beam Accelerometer (SRBA) effort is coordinated with the ICBM Dem/Val Guidance Applications Program (PE - 0603851F)
- BMT InfraLynx efforts are coordinated with ICBM Dem/Val Command and Control Applications (PE - 0603851F) Infralynx Program
- BMT Missile Site Security Efforts are coordinated with the BMT Infralynx security effort

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Exhibit R-3, RDT&E Project Cost Analysis

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(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> Phase II contract	OTA	Lockheed-Mart in, Palmdale, CA	23.585			0.000				0.000	23.585	23.585
Subtotal Product Development			23.585	0.000		0.000		0.000		0.000	23.585	23.585
Remarks:												
(U) <u>Development Support and Management</u> Perform analysis and assess alternative HTV concepts/requirements & program support	various	various	2.212			0.000				0.000	2.212	2.212
Perform PGS AoA	various	AFSPC, Peterson AFB, CO	5.726			0.000				0.000	5.726	5.726
Subtotal Development Support and Management			7.938	0.000		0.000		0.000		0.000	7.938	7.938
Remarks:												
(U) <u>Technology Development</u> Ballistic Missile Technology	various	Naval Research Lab, Wash DC; Assurance Technology Corp, Carlisle, MA; Honeywell, Clearwater, FL; AFRL Hanscom AFB, MA			3.695	Mar-08				0.000	3.695	3.974
Subtotal Technology Development			0.000	3.695		0.000		0.000		0.000	3.695	3.974
Remarks:												
(U) Total Cost			31.523	3.695		0.000		0.000		0.000	35.218	35.497

Exhibit R-4, RDT&E Schedule Profile

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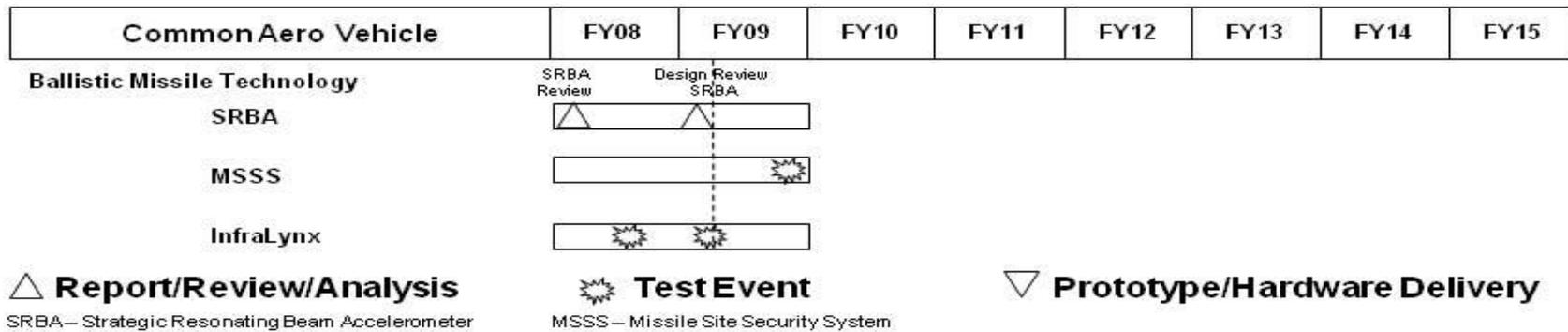


Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) BMT Strategic Resonating Beam Accelerometer (SRBA) Reviews

1Q

1Q

(U) BMT InfraLynx Communications Tests

2Q

1Q

(U) BMT Missile Site Security Systems Test

4Q

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