

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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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 2007 Actual	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	31.523	3.974	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A012 Common Aerospace Vehicle	31.523	3.974	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 Bills noted the value of developing conventional prompt global strike technologies using a synergistic approach. Both Bills 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 remains consistent with this direction by transferring all outyear funding from PE 0604856F into PE 0604165D8Z.

The FY2008 Appropriations Bill 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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PE NUMBER AND TITLE

0604856F Common Aero Vehicle

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	33.185	32.806	41.672
(U) Current PBR/President's Budget	31.523	3.792	0.000
(U) Total Adjustments	-1.662		
(U) Congressional Program Reductions		-32.806	
Congressional Rescissions		-0.208	
Congressional Increases		4.000	
Reprogrammings	-0.831		
SBIR/STTR Transfer	-0.831		

(U) **Significant Program Changes:**

FY2008: Congress added \$4M for Ballistic Missile Technology development. Congress directed \$32.806M of Air Force PGS funding be transferred to the defense-wide account, PE 0604165D8Z.

FY2009: The Air Force transferred all its FY2009 and outyear PGS funding to the defense-wide account.

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 0604856F Common Aero Vehicle			PROJECT NUMBER AND TITLE A012 Common Aerospace Vehicle		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
A012 Common Aerospace Vehicle	31.523	3.974	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	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.

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.

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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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue HTV system design and development, systems engineering and flight test planning/support for Phase II and Phase III	23.585		
(U) Perform analysis and assess alternative HTV concepts/requirements and program management support	2.212		
(U) Perform Prompt Global Strike Analysis of Alternatives and requirements development	5.726		
(U) Ballistic Missile Technology development		3.974	
(U) Total Cost	31.523	3.974	0.000

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PROJECT NUMBER AND TITLE

A012 Common Aerospace Vehicle

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

	<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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Other APPN									
(U) Defensewide RDT&E, PE 0604165D8Z, PGS		99.364	117.572	170.000	111.997	81.000	82.300	Continuing	TBD
(U) Defensewide RDT&E, DARPA, PE 0603285E, Falcon	39.000	22.680	25.000					Continuing	TBD

(U) **D. Acquisition Strategy**

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

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
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(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2007 Cost</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>Product Development</u> Phase II contract	OTA	Lockheed-Mart in, Palmdale, CA		23.585	Oct-06	0.000		0.000		Continuing	TBD	TBD
Subtotal Product Development			0.000	23.585		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Development Support and Management</u> Perform analysis and assess alternative HTV concepts/requirements & program support	various	various		2.212	Oct-06	0.000		0.000		Continuing	TBD	TBD
Perform PGS AoA	various	AFSPC, Peterson AFB, CO		5.726	Oct-06	0.000		0.000		0.000	5.726	9.132
Subtotal Development Support and Management			0.000	7.938		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Technology Development</u> Ballistic Missile Technology	various	various				3.974	Mar-08				3.974	3.792
Subtotal Technology Development			0.000	0.000		3.974		0.000		0.000	3.974	3.792
Remarks:												
(U) Total Cost			0.000	31.523		3.974		0.000		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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

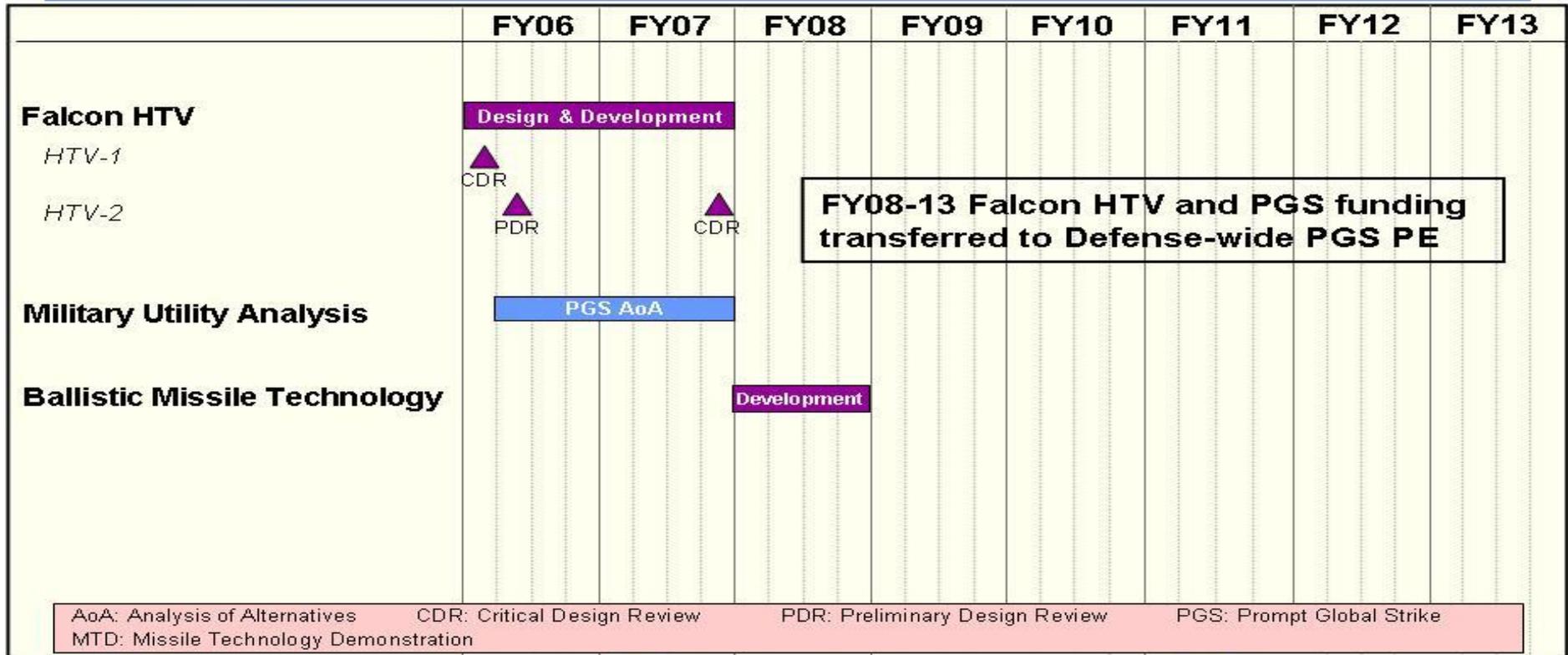
PE NUMBER AND TITLE
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U.S. AIR FORCE

Air Force PGS Schedule



AoA: Analysis of Alternatives CDR: Critical Design Review PDR: Preliminary Design Review PGS: Prompt Global Strike
 MTD: Missile Technology Demonstration

- Concept activities
- Design / development
- Integration / test
- Production / fielding
- Operations / sustainment
- ▼◇ Key events

Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

A012 Common Aerospace Vehicle

(U) Schedule Profile

FY 2007

FY 2008

FY 2009

(U) HTV-2 CDR

4Q

(U) PGS AoA

1-4Q

(U) Ballistic Missile Technology Development

1-4Q