PE NUMBER: 0305116F PE TITLE: AERIAL TARGETS

Exhibit R-2, RDT&E Budget Item Justification								DATE	ebruary 2	2005
BUDGET ACTIVITY 07 Operational System Development										
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	5.132	6.641	5.241	5.297	5.348	5.473	5.567	Continuing	TBD
5136 Target Systems Development	0.000	5 132	6 641	5 241	5 297	5 348	5 473	5.567	Continuing	TRD

Prior year (FY03 & FY04) RDT&E funding for Aerial Targets was in PE 64735F/BPAC 652286.

In FY 2006 Aerial Targets includes a new start effort.

(U) A. Mission Description and Budget Item Justification

Full-scale and subscale targets assure warfighters that weapon systems will perform adequately against real-world enemy fighters and cruise missiles. Aerial targets help satisfy public law Title 10, Section 2366 that requires major systems and munitions programs to conduct survivability testing and lethality testing before full-scale production. The Aerial Targets program provides drones to satisfy "Live Fire/Lethality" developmental/operational test requirements. Target drones are used to validate operational missile/weapon system effectiveness and fighter operational flight program (OFP) updates. Target drones are also essential for development testing/operational testing for all air-to-air and ground-to-air missiles, and for the F/A-22, F-16, F-15, etc., aircraft. The objective is to provide realistic targets for missile testing to enable the development of air defense systems capable of defeating changing airborne threats. This funding improves/updates aerial target systems to ensure aerial targets represent enemy threat airborne systems. This program element also funds development of full-scale/subscale aerial targets and target control systems. Specialized target payload subsystems are developed for requirements such as: missile scoring, electronic attack and infrared (IR) countermeasures, radar and IR signature augmentation, and chaff and flare dispensing systems. In FY06, the Air Force Subscale Aerial Target (AFSAT) program will continue to evaluate product improvement opportunities that will identify areas of needed enhancements to the performance, payload capability, and payload capacity to support growth initiatives which will continue throughout the Future Years Defense Program (FYDP). FY06 will also fund system acquisition and engineering support for studies and analysis of alternatives for the Air Superiority Target which is the planned follow-on full scale target to the QF-4.

This program is in budget activity 7 - RDT&E Operational System Development because it provides aerial targets, target payloads and target control systems in support of operational and RDT&E testing.

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

		<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
J)	U) Previous President's Budget	0.000	5.178	5.106	5.143
J)	U) Current PBR/President's Budget	0.000	5.132	6.641	5.241
J)	U) Total Adjustments	0.000	-0.046		
J)	U) Congressional Program Reductions		-0.046		
	Congressional Rescissions				

Congressional Increases

Reprogrammings

SBIR/STTR Transfer

(U) Significant Program Changes:

R-1 Shopping List - Item No. 183-1 of 183-7

Exhibit R-2 (PE 0305116F

Exhibit R-2, RDT&E Budge	et Item Justification	DATE February 2005
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305116F AERIAL TARGETS	-
\$1.5M in FY06 is for Air Superiority Target (AST) Analysis of Alternat	ives	
R-1 St	nopping List - Item No. 183-2 of 183-7	Exhibit R-2 (PE 0305116F)

Exhibit R-2a, RDT&E Project Justification Fel									February 2	2005	
	BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT NUI 07 Operational System Development 0305116F AERIAL TARGETS 5136 Targe					OJECT NUMBER 36 Target Sy		lopment			
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5136	Target Systems Development	0.000	5.132	6.641	5.241	5.297	5.348	5.473	5.567	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Full-scale and subscale targets assure warfighters that weapon systems will perform adequately against real-world enemy fighters and cruise missiles. Aerial targets help satisfy public law Title 10, Section 2366 that requires major systems and munitions programs to conduct survivability testing and lethality testing before full-scale production. The Aerial Targets program provides drones to satisfy "Live Fire/Lethality" developmental/operational test requirements. Target drones are used to validate operational missile/weapon system effectiveness and fighter operational flight program (OFP) updates. Target drones are also essential for development testing/operational testing for all air-to-air and ground-to-air missiles, and for the F/A-22, F-16, F-15, etc., aircraft. The objective is to provide realistic targets for missile testing to enable the development of air defense systems capable of defeating changing airborne threats. This funding improves/updates aerial target systems to ensure aerial targets represent enemy threat airborne systems. This program element also funds development of full-scale/subscale aerial targets and target control systems. Specialized target payload subsystems are developed for requirements such as: missile scoring, electronic attack and infrared (IR) countermeasures, radar and IR signature augmentation, and chaff and flare dispensing systems. In FY06, the Air Force Subscale Aerial Target (AFSAT) program will continue to evaluate product improvement opportunities that will identify areas of needed enhancements to the performance, payload capability, and payload capacity to support growth initiatives which will continue throughout the Future Years Defense Program (FYDP). FY06 will also fund system acquisition and engineering support for studies and analysis of alternatives for the Air Superiority Target which is the planned follow-on full scale target to the QF-4.

This program is in budget activity 7 - RDT&E Operational System Development because it provides aerial targets, target payloads and target control systems in support of operational and RDT&E testing.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U)	Prior year (FY03 & FY04) RDT&E funding for Aerial Targets was in PE 64735F/BPAC 652286.				
(U)	Continue Aerial Targets basic operating support.		0.200	0.200	0.200
(U)	Continue system acquisition and engineering support to include studies, upgrades for the target control		1.578	0.941	1.041
	system, the weapon scoring system, payload systems and other aerial targets support systems				
(U)	Air Superiority Target Analysis of Alternatives			1.500	
(U)	Continue product improvement program for the Air Force Subscale Aerial Target (AFSAT) program to		3.354	4.000	4.000
	include payload and propulsion improvements, radar augmentation, and other objective				
	requirements/enhancements.				
(U)	Total Cost	0.000	5.132	6.641	5.241

Project 5136 R-1 Shopping List - Item No. 183-3 of 183-7

DATE Exhibit R-2a, RDT&E Project Justification February 2005 PROJECT NUMBER AND TITLE BUDGET ACTIVITY PE NUMBER AND TITLE 07 Operational System Development 0305116F AERIAL TARGETS 5136 Target Systems Development (U) C. Other Program Funding Summary (\$ in Millions) Cost to Total Cost FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Actual **Estimate Estimate Estimate Estimate Estimate Estimate Estimate** Complete PE35116F: Appn: Aircraft (U) Procurement, AF(APAF), 51.554 73.008 82.907 81.326 83.986 89.055 91.233 92.227 Continuing **TBD** Program Title: Aerial Targets (U) Initial Spares 0.758 0.397 0.478 0.480 0.495 0.511 0.524 0.530 Continuing **TBD** (U) Munitions 3.322 Continuing **TBD** 2.771 3.617 3.770 3.888 4.044 4.146 4.195 (U) Electronic Attack Pods 0.000 0.000 4.992 5.302 Continuing **TBD** 5.407 5.420 5.069 5.465

(U) D. Acquisition Strategy

The acquisition strategy is competitive, with cost plus and fixed price contracts.

Project 5136

R-1 Shopping List - Item No. 183-4 of 183-7

Exhibit R-2a (PE 0305116F)

Exhibit R-3, RD	T&E Project Cost	Analysis	DATE February 2005
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305116F AERIAL TARGETS	PROJECT NUMBER AND TITLE 5136 Target Systems Development	
(U) Cost Categories Contract Performing (Tailor to WBS, or System/Item Requirements) Type Location (\$ in Millions)			Y 2006 FY 2007 FY 2007 Cost to Total Cost Target Total Cost Award Cost Award Complete Value Date Date Contract
(U) Product Development Composite Engineering Inc. CPFF TBD - AST Analysis of Alternatives TBD Subtotal Product Development Remarks: Spiral Development Program for the BQM-167.	0.000 0.000 0.000 0.000 A (AFSAT) subscale program		Tov-05 4.000 Nov-06 11.354 Iar-06 1.500 4.000 0.000 12.854 0.00
(U) Support Mission Support Subtotal Support Remarks: (U) Test & Evaluation	0.000 0.000 0.000 0.000	0.951 0.750 0.951 0.750	0.803 2.504 0.803 0.000 2.504 0.0
Subtotal Test & Evaluation Remarks: (U) Management	0.000 0.000	0.000 0.000	0.000 0.000 0.000 0.000
System Acq and Engineering Support Various Various Subtotal Management Remarks: (U) Total Cost	0.000 0.000 0.000 0.000 0.000 0.000	0.827 0.391 0.827 0.391 5.132 6.641	0.438 1.656 0.438 0.000 1.656 0.0 5.241 0.000 17.014 0.0

Project 5136 R-1 Shopping List - Item No. 183-5 of 183-7

Exhibit R-3 (PE 0305116F)

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT NUMBER AND TITLE

07 Operational System Development

0305116F AERIAL TARGETS

5136 Target Systems Development



BQM-167A Spiral Development Roadmap

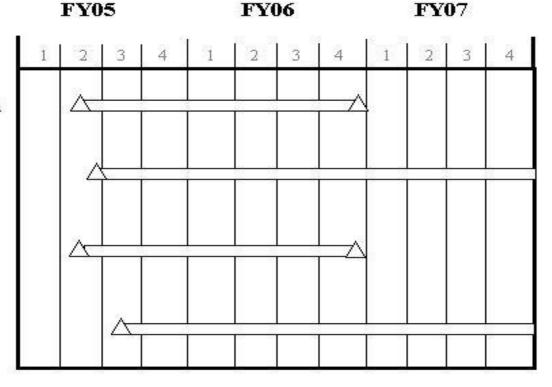


EA Internalization

Performance Enhancements

Simultaneous ALE-47/DLQ-9 Operations

Radar Augmentation



Project 5136

R-1 Shopping List - Item No. 183-6 of 183-7

Exhibit R-4 (PE 0305116F)

Exhibit R-4a, RDT&E	DATE	DATE February 2005				
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305116F AERIAL TARGETS			PROJECT NUMBER AND TITLE 5136 Target Systems Development		
			5136 Target			
Project 5136 R-1 S	Shopping List - Item No. 183-7 of 183-7			Exhibit R-4a	a (PE 0305116F)	