

UNCLASSIFIED

PE NUMBER: 0207131F
PE TITLE: A-10 SQUADRONS

Exhibit R-2, RDT&E Budget Item Justification								DATE May 2009		
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207131F A-10 SQUADRONS					
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	6.498	3.989	9.697	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4809 A-10 Squadrons	6.498	3.989	9.697	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The concept of operations for the A-10 requires an agile and survivable weapon system that provides close-air support, combat search and rescue, and special operations support. The high operations tempo maintained by the Expeditionary Air Force requires that each combat platform exhibit the flexibility to effectively perform in a variety of operational roles. To implement these strategies, Combat Air Forces (CAF) must be able to conduct air operations around-the-clock under various weather conditions against numerous enemy threats employing a full spectrum of air defense systems to include countermeasures.

The A-10 is an essential component of successful air operations, and represents a significant percentage of the CAF force structure with 356 aircraft currently in service (plus one ground training aircraft). FY10 PB projects the retirement of three aircraft in FY10 and an additional six in FY13. Candidate user developmental requirements are formally reviewed for incorporation in the yearly aircraft Operational Flight Program (OFP) release cycle, including both hardware and software efforts to fix discovered deficiencies. The weapon system's attributes include excellent low speed maneuverability, high weapons payload, long loiter time, very high tolerance to battle damage, and the lowest cost per flying hour of any CAF fighter. As demonstrated during the Persian Gulf War, it is the Air Force's most effective Close Air Support (CAS) and anti-armor platform.

Results of previously planned developmental and modernization actions provide the A-10 with new combat capabilities that employ a variety of smart weapons, provides improved situational awareness, increased service life to the wing and fuselage/empennage, and enhanced target identification and designation capability. The funds budgeted in the near term will provide updates to the aircraft OFP in Suites 5 and 6 and will address integration of Precision Engagement capabilities deferred from the Suite 3 OFP, for example J-Series and VMF messages, and incorporation of Mode 5. Later in the FYDP, subsequent Suites are projected to incorporate additional functionality such as electronic warfare, cursor on target and evolving targeting pod capabilities.

The FY09 Appropriations Bill provided \$4M for development of a Low Cost Helmet Mounted Cueing System for the A-10.

Ongoing planning and associated activities will take place to prevent and overcome diminishing manufacturing sources and obsolescence issues as required.

This program is in Budget Activity 07 - Operational System Development because it supports a fielded weapon system.

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0207131F A-10 SQUADRONS

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	1.951	0.000	3.018
(U) Current PBR/President's Budget	6.498	3.989	9.697
(U) Total Adjustments	4.547	3.989	
(U) Congressional Program Reductions		0.000	
Congressional Rescissions		-0.011	
Congressional Increases		4.000	
Reprogrammings	4.600		
SBIR/STTR Transfer	-0.053		

(U) **Significant Program Changes:**

FY08: \$4.6M payback from within AF resources. Precision Engagement (PE) Operational Flight Programming (OFP) s/w development was underperforming in FY06; \$4.6M was BTR'd to higher AF priorities with a promise to BTR back. This BTR was accomplished during FY08 execution and is enabling digital downlink of 9-line operational direction messages through the IDM (Improved Data Modem) and working off back-logged PE deficiency reports.

FY09: FY09 Appropriations Bill added \$4M for Low Cost Helmet Mounted Cueing System.

FY10 : The FY10 column shows ZBT transfer in of \$7M previously budgeted in the A-10 O&M account to the A-10 RDT&E account. This funding provides for A-10 Operational Flight Program Updates. Provides resources for annual OFP Updates, a two-year annual Update release with alternating start dates -- see accompanying New Start form. The transfers continue across the FYDP at an inflation adjusted level of \$7M/year.

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
07 Operational System Development					0207131F A-10 SQUADRONS			4809 A-10 Squadrons		
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
4809 A-10 Squadrons	6.498	3.989	9.697	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

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This program is in Budget Activity 07 - Operational System Development because it supports a fielded weapon system.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Precision Engagement (PE) development/integration efforts.	6.498		
(U) Low Cost Helmet Mounted Cueing System		3.989	
(U) Integration of Mode 5 (IFF) Capability into A-10 fleet			2.970
(U) Operational flight program (OFP) development/integration efforts			6.727
(U) Total Cost	6.498	3.989	9.697

Exhibit R-2a, RDT&E Project Justification							DATE May 2009	
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207131F A-10 SQUADRONS			PROJECT NUMBER AND TITLE 4809 A-10 Squadrons	

(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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) A-10 Squadrons (PE 0207131F) - APAF		145.306	137.893	243.538	0.000	0.000	0.000	0.000			
(U) Fighter Tactical Data Link (PE 0207445F)-RDT&E		2.093									
(U) Fighter Tactical Data Link (PE 0207445F)-APAF		22.657	5.788	8.950	0.000	0.000					

(U) **D. Acquisition Strategy**

Prior to FY09 development efforts were conducted under the A-10 Prime Contract, which was awarded to Lockheed Martin Systems Integration (LMSI) in Dec 1997 through a full-and-open competition. Multiple IDIQ contracts, of various contract types, have been established with LMSI to support these development efforts and will serve as a bridge, until the next A-10 contract has been awarded (which will be known as the A-10 Thunderbolt Life-Cycle Program Support (TLPS) Contract). Subsequent development effort will be provided by this effort which is currently in source selection. This will be the primary contractual vehicle for effort awarded in FY09 and for the next five years or more. The contract will encompass future sustainment, upgrades, and new development efforts required to ensure the A-10 is viable through 2028. The TLPS contract is a full and open competition effort that is designed to provide three fully capable aircraft contractors the opportunity to assist the A-10 platform in meeting its future requirements. The contractual effort is an IDIQ and will utilize multiple funding strategies. The basic contractual period of five years and potential out year options reside within the acquisition strategy. This IDIQ supports sustainment, development, and modernization efforts for the A-10.

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Exhibit R-3, RDT&E Project Cost Analysis

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07 Operational System Development				0207131F A-10 SQUADRONS				4809 A-10 Squadrons					
(U)	<u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>FY 2010</u> <u>Cost</u>	<u>FY 2010</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U)	<u>Product Development</u> Precision Engagement Development	T&M/CPIF	Lockheed Martin Systems Integration (LMSI) -- Owego NY		2.924	Feb-08						2.924	
	Low Cost Helmet Mounted Cueing System	TBD	TBD				3.989					3.989	
	Mode 5 (IFF)	TBD	TBD						2.970	Jan-10		2.970	
	OFP Development	Various	LMSI -- Owego NY						5.764	Jan-10		5.764	
	Subtotal Product Development			0.000	2.924		3.989		8.734		0.000	15.647	0.000
	Remarks:												
(U)	<u>Support</u> USAF (Multiple) PE				3.574	Jan-08			0.963	Jan-10		4.537	
	Subtotal Support			0.000	3.574		0.000		0.963		0.000	4.537	0.000
	Remarks:												
(U)	<u>Test & Evaluation</u> USAF (40th FTS) PE											0.000	
	Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
	Remarks:	Test and Evaluation costs are included in the "Support" line											
(U)	<u>Management</u> Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
	Remarks:	Management costs are included in the "Support" line											
(U)	Total Cost			0.000	6.498		3.989		9.697		0.000	20.184	0.000

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Exhibit R-3 (PE 0207131F)

Exhibit R-4, RDT&E Schedule Profile

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PROJECT NUMBER AND TITLE

4809 A-10 Squadrons

A-10 OFP Suite Master Schedule (PEC 0207131F)

	FY 2008				FY 2009				FY 2010				FY 2011				FY 2012	FY 2013	FY 2014	FY 2015
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Suite 3																				
Milestones	◆ Rpt			◆ Rpt																
Production		IOT&E		◆ Suite 3.3C Fielding																
	PE Installation																			
					6 Acft / Month															
Suite 5 SDD & Test	RA&D / Development / Integration																			
OFP Fielding							◆													
Suite 6 SDD & Test	RA&D / Development / Integration / Flight Test																			
OFP Fielding												◆								
Suite 7 SDD & Test				RA&D / Development / Integration / Test																
OFP Fielding																				
LCHMCS							Integration													
Mode 5 (IFF)										Integration										
Suite 8 SDD & Test								RA&D / Development / Integration												
OFP Fielding																				
Suite 9 SDD & Test																				
OFP Fielding																				
Suite 10 SDD & Test																				
OFP Fielding																				
Suites 11 and beyond field on a yearly basis similar to Suite 10																				

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Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

4809 A-10 Squadrons

(U) Schedule ProfileFY 2008FY 2009FY 2010

(U) Precision Engagement Developmental Test / Operational Test

1-3Q

(U) Precision Engagement Production / Installation

1-4Q

1-4Q

1-4Q

(U) Low Cost Helmet Mounted Cueing System

3-4Q

1Q

(U) Suite 5 OFP System Design, Development & Flight Test

1-4Q

1-3Q

(U) Suite 5 OFP Fields

3Q

(U) Suite 6 OFP System Design, Development & Flight Test

1-4Q

1-4Q

1-3Q

(U) Suite 6 OFP Fields

3Q

(U) Suite 7 OFP System Design, Development & Flight Test

4Q

1-4Q

1-4Q

(U) Suite 7 Fields

(U) Mode 5 (IFF) Integration

2-4Q

(U) Suite 8 OFP System Design, Development & Flight Test

4Q

1-4Q

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Exhibit R-4a (PE 0207131F)

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