

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	<b>DATE</b> <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207131F A-10 SQUADRONS</b>
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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	42.491	1.951	0.000	3.018	0.000	0.000	0.000	Continuing	TBD
4809 A-10 Squadrons	42.491	1.951	0.000	3.018	0.000	0.000	0.000	Continuing	TBD

FY2007 funding total includes \$10M in GWOT supplemental. (Urban CAS Low Collateral Damage)

FY2008 funding totals do not include \$280M FY2008 GWOT requirements still pending Congressional consideration. (Propulsion Upgrade Program and Urban CAS Low Collateral Damage)

**(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 in service. Candidate developmental requirements from the user are formally reviewed yearly for incorporation in the yearly Operational Flight Program release cycle, including both hardware and software fixes to fix 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.

Planned developmental and modernization actions will correct the current shortcomings of the A-10 weapon system and add new capabilities to ensure continued viability throughout its projected service life. These developmental modernization programs will provide the A-10 with new combat capabilities to employ a variety of smart weapons plus improved situational awareness, increased service life to the wing and fuselage/empennage, and enhanced target identification and designation capability. The A-10 retains current capability and is adding capability projects such as Precision Engagement (PE) Program (MN-9805), including a 4-channel data recorder; Wing Replacement Program (MN-9804) and it's associated Three-Dimensional (3-D) Modeling, Design, and Engineering Assessment; Secure/Beyond Line-of-Sight (SLOS/BLOS) Radio Communications (MN-9803); and Mode S / Mode 5 (MN-7856).

The Situational Awareness Datalink (SADL) and the Improved Data Modem (IDM) efforts are being installed in conjunction with the Precision Engagement modification to the maximum extent possible. Funding is provided under Program Element Code (PEC) 0207445F (Fighter Tactical Data Link) and PEC 0207423F (Advanced Communication Systems). Since the SADL modification will be run concurrent with the PE modification, the development timeline and subsequent kit procurement mirror PE's program schedule.

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

Exhibit R-2, RDT&E Budget Item Justification

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207131F A-10 SQUADRONS

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	31.850	1.963	0.000
(U) Current PBR/President's Budget	42.491	1.951	0.000
(U) Total Adjustments	10.641	-0.012	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.012	
Congressional Increases	10.000		
Reprogrammings	1.500		
SBIR/STTR Transfer	-0.859		
(U) <b><u>Significant Program Changes:</u></b>			
Received \$10M GWOT for development efforts for Urban Close Air Support (CAS)			

**Exhibit R-2a, RDT&E Project Justification**

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**February 2008**

BUDGET ACTIVITY <b>07 Operational System Development</b>				PE NUMBER AND TITLE <b>0207131F A-10 SQUADRONS</b>			PROJECT NUMBER AND TITLE <b>4809 A-10 Squadrons</b>		
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
4809 A-10 Squadrons	42.491	1.951	0.000	3.018	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**

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

<b>(U) B. Accomplishments/Planned Program (\$ in Millions)</b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Precision Engagement (PE) development/integration efforts.	25.353	1.951	
(U) Three Dimensional (3-D) Modeling, Design, and Engineering Assessment.	1.500		
(U) Wing Replacement Program development efforts.	5.638		
(U) Urban Close Air Support (CAS) Low Collateral Damage integration efforts.	10.000		
(U) Total Cost	42.491	1.951	0.000

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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0207131F A-10 SQUADRONS</b>	PROJECT NUMBER AND TITLE <b>4809 A-10 Squadrons</b>
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(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) A-10 Squadrons (PE 0207131F)-APAF	276.187	145.306	138.273	294.194	271.394	265.751	266.451		
(U) Fighter Tactical Data Link (PE 0207445F)-RDT&E	24.990	2.093							TBD
(U) Fighter Tactical Data Link (PE 0207445F)-APAF	0.000	22.657	5.804	9.112	0.700	0.698			TBD

(U) **D. Acquisition Strategy**

- Development efforts will be 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. An IDIQ contract is in place with LMSI to support OFP Development. Time and Materials (T&M), and Cost Plus Incentive Fee (CPIF), and Cost Plus Fixed Fee (CPFF) contracts will be awarded for specific modernization requirements under this effort.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
<b>07 Operational System Development</b>				<b>0207131F A-10 SQUADRONS</b>				<b>4809 A-10 Squadrons</b>				
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; 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>												
Precision Engagement Development	T&M/CPIF	Lockheed Martin Systems Integration--Owego NY		23.983	Jan-07	1.888	Feb-08			Continuing	TBD	
Three-Dimensional (3D) Modeling, Design, and Engineering Assessment	CPFF	Aerospace Engineering Spectrum (AES)--Ogden UT		1.680	Sep-07						1.680	
A-10 Wing Replacement Program	FFP	Boeing -- St Louis MO		4.800	Jun-07						4.800	
Three-Dimension (3D) Modeling, Systems Engineering	T&M	Innovative Systems Architecture (ISA) -- Layton UT		0.658	Feb-07						0.658	
Urban CAS	T&M	Lockheed Martin Systems Integration -- Owego NY		10.000						Continuing	TBD	
Subtotal Product Development			0.000	41.121		1.888		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
USAF (Multiple) PE				1.370	Oct-06	0.063	Jan-08			Continuing	TBD	
Subtotal Support			0.000	1.370		0.063		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>												
USAF (40th FTS) PE											0.000	
Subtotal Test & Evaluation			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>											0.000	
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	42.491		1.951		0.000		Continuing	TBD	0.000

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Exhibit R-3 (PE 0207131F)

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Exhibit R-4, RDT&E Schedule Profile

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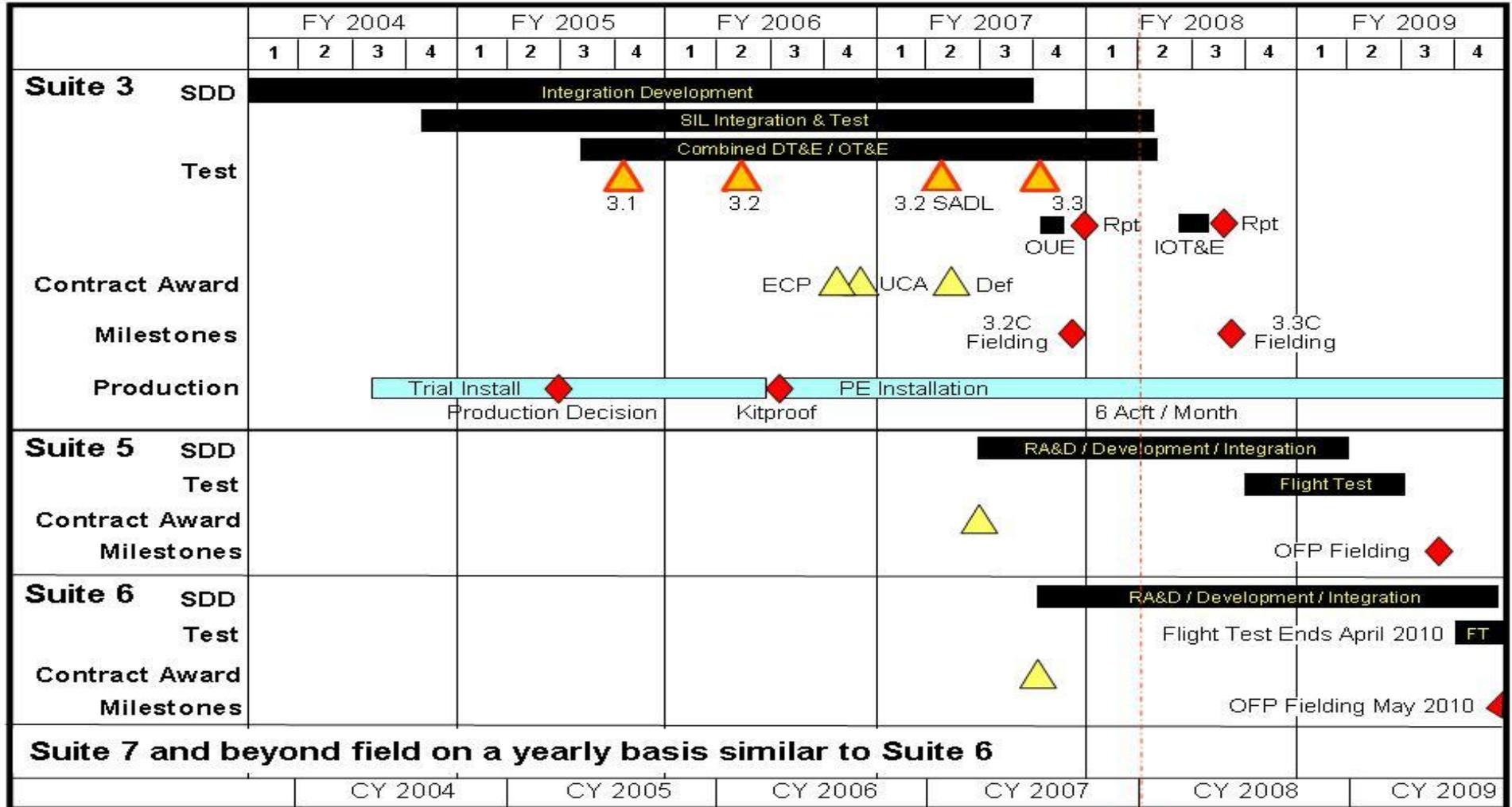
February 2008

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0207131F A-10 SQUADRONS

PROJECT NUMBER AND TITLE  
4809 A-10 Squadrons

PE OFP Suite Master Schedule



Today

Exhibit R-4a, RDT&E Schedule Detail

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07 Operational System Development

PE NUMBER AND TITLE

0207131F A-10 SQUADRONS

PROJECT NUMBER AND TITLE

4809 A-10 Squadrons

(U) Schedule Profile

(U) Precision Engagement Developmental Test / Operational Test

(U) Precision Engagement Initial Operating Capability (IOC)

(U) Precision Engagement Production / Installation

FY 2007

1-4Q

4Q

1-4Q

FY 2008

1-3Q

1-4Q

FY 2009

1-4Q