

**UNCLASSIFIED**

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

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</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 2006 Actual	FY 2007 Estimate	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	55.713	31.850	1.963	0.000	3.046	0.000	0.000	0.000	Continuing	TBD
4809 A-10 Squadrons	55.713	31.850	1.963	0.000	3.046	0.000	0.000	0.000	Continuing	TBD

**(U) A. Mission Description and Budget Item Justification**

The concept of operations for the A/OA-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/OA-10 is an essential component of successful air operations, and represents a significant percentage of the CAF force structure with 356 aircraft in service. 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/OA-10 weapon system and add new capabilities to ensure continued viability throughout its projected service life. These developmental modernization programs will provide the A/OA-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/OA-10 retains current capability and is adding systems such as the Precision Engagement (PE) Program (MN-9805), the Wing Replacement Program (MN-9804), the Three-Dimensional (3-D) Modeling, Design, and Engineering Assessment, the Airborne Radio Communication ARC-210 Warrior Radio (MN-9803), and the Mode S / Mode 5 Equipment Program (MN-7856). Within the PE Program, projects such as a fieldable 4-channel data recorder are included in the funding profile.

The Situational Awareness Datalink (SADL) and the Improved Data Modem (IDM) efforts are also included as part of the PE program. 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.

The ARC-210 Warrior Radio program received \$1.4M FY06 funding from Warfighter Rapid Acquisition Program (WRAP) under PEC 0203761F along with a Congressional Global War On Terrorism (GWOT) add of \$1.2M to PEC 0207131F to begin development of an A/OA-10 BLOS capability to satisfy a USCENTCOM urgent need.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	56.025	80.771	59.942	0.000
(U) Current PBR/President's Budget	55.713	31.850	1.963	0.000
(U) Total Adjustments	-0.312	-48.921		
(U) Congressional Program Reductions		-48.800		
Congressional Rescissions	-0.001	-0.121		
Congressional Increases				
Reprogrammings	1.200			
SBIR/STTR Transfer	-1.511			
(U) <u>Significant Program Changes:</u>				
FY07 & FY08:				
- Termination of Propulsion Upgrade Program (PUP)				

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2007

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>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	55.713	31.850	1.963	0.000	3.046	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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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207131F A-10 SQUADRONS</b>	<b>PROJECT NUMBER AND TITLE</b> <b>4809 A-10 Squadrons</b>
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<b>(U) B. Accomplishments/Planned Program (\$ in Millions)</b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Precision Engagement (PE) development/integration efforts.	32.853	26.155	1.963	
(U) PUP Risk Reduction/System Design and Demonstration (SDD) efforts.	19.505			
(U) Three Dimensional (3-D) Modeling, Design, and Engineering Assessment.	2.155			
(U) Wing Replacement Program development efforts.		5.695		
(U) Airborn Radio Communication ARC-210 Warrior Radio	1.200			
(U) Total Cost	55.713	31.850	1.963	0.000

<b>(U) C. Other Program Funding Summary (\$ in Millions)</b>	<u>FY 2006</u>	<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>Complete</u>							
(U) A-10 Squadrons (PE 0207131F)-APAF	63.362	106.940	144.295	139.719	296.849	273.807	268.156			
(U) Fighter Tactical Data Link (PE 0207445F)-RDT&E	18.089	23.870	2.980							TBD
(U) Fighter Tactical Data Link (PE 0207445F)-APAF	8.639	0.000	22.812	5.865	9.194	0.706	0.704			TBD
(U) Advanced Communication Systems (PE 0207423F)-APAF	8.950									
(U) Warfighter Rapid Acquisition Program (WRAP) (PE 0203761F) - RDT&E	1.390									

**(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. Both Time and Materials (T&M) and Cost Plus Incentive Fee (CPIF) contracts will be awarded for specific modernization requirements under the Prime Contract.

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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 &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2009</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
				<u>Cost</u>	<u>Award Date</u>									
(U) <u>Product Development</u> Precision Engagement Development	T&M/CPI F	Lockheed Martin Systems Integration-- Owego NY		31.951	Jan-06	24.794	Jan-07	1.963	Jan-08			Continuing	TBD	
Propulsion Upgrade Study	FP	Whitney Bradley & Brown Inc--Vienna VA		4.190	Dec-05								4.190	
Propulsion Upgrade	SS/CPFF	General Electric, Lynn MA		8.893	Dec-05								8.893	
Airframe Integration	CPFF	Lockheed Martin Systems Integration-- Owego NY		4.238	Feb-06								4.238	
Three-Dimensional (3D) Modeling, Design, and Engineering Assessment	CPFF	Aerospace Engineering Spectrum (AES)--Ogde n UT		2.155	Feb-06								0.000	
A-10 Wing Replacement Program ARC-210 Warrior Radio	TBD T&M	TBD Lockheed Martin Systems Integration-- Owego NY				5.695	Dec-06						5.695	
Mode S / Mode 5	TBD	TBD										Continuing	TBD	
Subtotal Product Development Remarks:			0.000	52.627		30.489		1.963		0.000		Continuing	TBD	0.000
(U) <u>Support</u> USAF (Multiple) PE				0.902	Oct-05	1.361	Oct-06					Continuing	TBD	
USAF (Multiple) Propulsion				2.184	Oct-05								2.184	
Subtotal Support Remarks:			0.000	3.086		1.361		0.000		0.000		Continuing	TBD	0.000
(U) <u>Test &amp; Evaluation</u>														

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Exhibit R-3 (PE 0207131F)

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

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USAF (40th FTS) PE								0.000	
USAF (Multiple) Propulsion							Continuing	TBD	3.601
Subtotal Test & Evaluation	0.000	0.000		0.000	0.000	0.000	Continuing	TBD	3.601
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	0.000
Remarks:	Management costs are included in the "Support" line								
(U) Total Cost	0.000	55.713		31.850	1.963	0.000	Continuing	TBD	3.601

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY  
07 Operational System Development

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0207131F A-10 SQUADRONS

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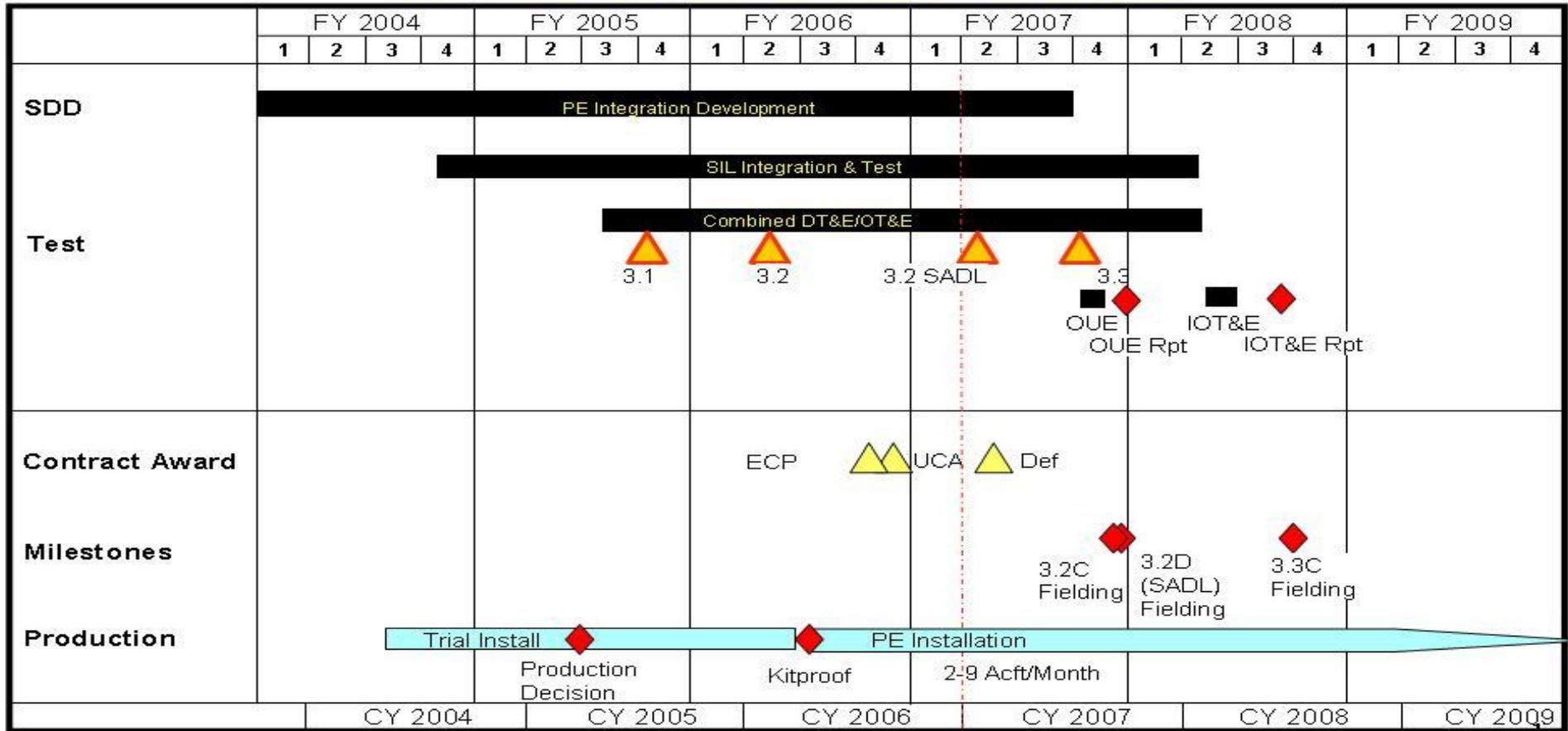


U.S. AIR FORCE

# PE/Suite 3 Master Schedule



*Dominant Air Power: Design For Tomorrow... Deliver Today*



Today

Exhibit R-4a, RDT&E Schedule Detail

DATE

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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Precision Engagement Developmental Test / Operational Test	1-4Q	1-4Q	1-3Q	
(U) Precision Engagement Initial Operating Capability (IOC)			3Q	
(U) Precision Engagement Production / Installation	3-4Q	1-4Q	1-4Q	1-4Q