

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

June 2001

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207131F A-10 SQUADRONS

PROJECT

4809

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4809 A-10 Squadrons	7,746	9,626	3,049	10,257	44,754	9,251	9,556	9,767	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

FY03-FY07 budget numbers do not reflect the DOD strategic review results.

(U) **A. Mission Description**

The primary mission of the A/OA-10 is to provide close air support (CAS) for friendly land forces and to act as the forward air controller (FAC) to coordinate and direct friendly air forces in support of land forces. The A/OA-10 has a secondary mission of supporting search and rescue (SAR) and special forces operations. It also possesses a limited capability to perform certain types of interdiction. All of these missions may take place in a high- or low-threat environment. The A-10 System Program Office (SPO) is directed to upgrade and modernize the A/OA-10 aircraft to enhance its ability to support CAS and interdiction mission requirements. The Integrated Flight and Fire Control Computer (IFFCC), formerly known as the Low Altitude Safety and Targeting Enhancement (LASTE) computer upgrade, will enhance the computer memory, throughput, and system architecture to allow the aircraft to integrate advanced weapons and accommodate a situational awareness display, a data-link capability, an Electronic Warfare Management System, and the Digital Terrain System.

A follow on to the current IFFCC program, called Precision Engagement, is being explored in order to meet additional user requirements. It accelerates the Digital Data Link and the 1760 Bus upgrades. Additionally, this effort combines the Digital Data Link and the Common Data Link Solution with other modifications.

Additional development for a moving map capability is a high priority with the users. A new start is envisioned in the outyears.

RDT&E funds are executed in developing improved capability, maintenance, and safety modification development efforts. Without continuing avionics, airframe and weapon systems upgrades, the A/OA-10 will have difficulty adhering to the regional CINCs requirement for a Close Air Support platform.

(U) **FY 2000 (\$ in Thousands)**

(U) \$7,214	Continue software update/conversion and hardware development for Integrated Flight and Fire Control Computer (IFFCC)
(U) \$532	Initiate Common Data Link Solution
(U) \$0	Software development and integration solutions
(U) \$7,746	Total

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4809(U) **A. Mission Description Continued**(U) **FY 2001 (\$ in Thousands)**

(U) \$9,547 Continue software update/conversion and hardware development for IFFCC/next generation IFFCC.

(U) \$79 Software and hardware development for the Digital Terrain System (DTS)

(U) \$9,626 Total

(U) **FY 2002 (\$ in Thousands)**

(U) \$1,277 Precision Engagement

(U) \$273 Digital Data Link

(U) \$1,499 1760 Bus

(U) \$0 Digital Terrain System

(U) \$3,049 Total

(U) **B. Budget Activity Justification**

The A/OA-10 RDT&E program is in budget activity 7 - Operational System Development because it supports an operational system.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	8,013	8,615	8,933	TBD
(U) Appropriated Value	8,013	8,615		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-235	-89		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions	-32			
(U) Adjustments to Budget Years Since FY 2001 PBR		1,100	-5,884	
(U) Current Budget Submit/FY 2002 PBR	7,746	9,626	3,049	TBD

(U) **Significant Program Changes:**

(U) FY02 adjustments include the removal of On-Board Oxygen Generating System (OBOGS) program and A-10 Clean Up. A programmatic decision was made to push OBOGS into the POM since the entire fleet could not be funded at this time.

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BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207131F A-10 SQUADRONS					PROJECT 4809	
(U) D. Other Program Funding Summary (\$ in Thousands)											
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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) AF RDT&E											
(U) Other APPN											
(U) Aircraft Procurement, BP-11 (PE 27131F)	27,133	40,320	18,547	19,645	34,840	72,459	105,181	111,752	Continuing	TBD	
(U) RDT&E (PE 64270F)	3,000	0	0							15,678	
(U) E. Acquisition Strategy The Integrated Flight and Fire Control Computer (IFFCC), Digital Terrain System (DTS), On-Board Oxygen Generating System (OBOGS), Digital Data Link (DDL), Common Data Link, 1760 BUS, and moving map development will be conducted under the A-10 Prime Contract which was awarded in Dec 1997 on a full-and-open basis. CPAF contract awarded for specific modernization efforts.											
(U) F. Schedule Profile											
		<u>FY 2000</u>					<u>FY 2001</u>			<u>FY 2002</u>	
				1	2	3	4	1	2	3	4
(U) Integrated Flight and Fire Control Computer (IFFCC) Upgrade										X	
(U) Digital Terrain System											
(U) Precision Engagement										*	
(U) Digital Data Link										*	
(U) 1760 Bus Upgrade										*	
* = New Start X=completion											
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE		June 2001	
BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT	
07 - Operational System Development				0207131F A-10 SQUADRONS					4809	
(U) A. Project Cost Breakdown (\$ in Thousands)										
							FY 2000		FY 2001	FY 2002
(U)	Integrated Flight and Fire Control Computer (IFFCC)						7,214		9,547	0
(U)	Digital Terrain System (DTS)						0		79	0
(U)	Precision Engagement						0		0	1,277
(U)	Digital Data Link						532		0	273
(U)	1760 Bus Upgrade						0		0	1,499
(U)	Mission Support						0		0	0
(U)	Total						7,746		9,626	3,049
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Lockheed Martin Systems Integration	IFFCC/Next Generation IFFCC A-10 Prime Contract/CPAF	2Q99	TBD	TBD		7,214	9,547	0	Continuing	TBD
Lockheed Martin Systems Integration	Digital Terrain System (DTS) A-10 Prime Contract CPAF	3Q01	TBD	TBD	0	0	79	0	Continuing	TBD
Lockheed Martin Systems Integration	Onboard Oxygen	2Q05	TBD	TBD	0	0	0	0	1,747	1,747
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										June 2001
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT
07 - Operational System Development					0207131F A-10 SQUADRONS					4809
(U) <u>Performing Organizations Continued:</u>										
<u>Product Development Organizations</u>										
	Generating Systems (OBOGS)									
Lockheed Martin Systems	Digital Data	1Q02	TBD	19,465	0	0	0	273	16,599	16,872
Integration	Link (DDL)									
Lockheed Martin Systems	1760 Bus	1Q02	TBD	28,216	0	0	0	1,499	23,471	24,970
Integration										
Lockheed Martin Systems	Precision	1Q02	TBD	17,840	0	0	0	1,277	14,631	15,908
Integration	Engagement									
Lockheed Martin Systems	Common Data	2Q00	TBD	3,822	0	532	0	0	0	532
Integration	Link									
Lockheed Martin Systems	Moving Map	2Q05	TBD	TBD	0	0	0	0	14,919	14,919
Integration										
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</u>										
(U) <u>Government Furnished Property:</u>										
	<u>Contract</u>									
	<u>Method/Type</u>	<u>Award or</u>								
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>										
<u>Support and Management Property</u>										
<u>Test and Evaluation Property</u>										
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BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT
07 - Operational System Development		0207131F A-10 SQUADRONS				4809
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Total</u>
Subtotal Product Development		0	7,746	9,626	3,049	TBD
Subtotal Support and Management						TBD
Subtotal Test and Evaluation						TBD
Total Project		0	7,746	9,626	3,049	TBD

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