

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2002
--	------------------------------

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

COST (\$ in Thousands)	FY 2001 Actual	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	8,102	5,501	7,650	44,275	8,997	9,305	9,487	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

The primary mission of the A/OA-10 is to provide close air support (CAS) for friendly land forces and 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 combat search and rescue (CSAR) and special forces (SOF) operations. It also possesses the capability to perform interdiction missions under certain conditions. 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, has been initiated to meet additional user requirements. It accelerates and integrates the Data Link and 1760 Bus upgrade and timelines to gain synergy in a single modification to the aircraft. The reduction in overlapping modification timelines and efforts allows an increase in net combat capability.

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 2001 (\$ in Thousands)

- (U) \$8,102** Continue software update/conversion and hardware development for IFFCC/next generation IFFCC.
- (U) \$8,102** Total

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE February 2002			
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT			
07 - Operational System Development	0207131F A-10 SQUADRONS	4809			
(U) <u>A. Mission Description Continued</u>					
(U) <u>FY 2002 (\$ in Thousands)</u>					
(U) \$4,002	Initiate Precision Engagement development and integration efforts				
(U) \$1,499	Initiate 1760 Bus development and integration efforts				
(U) \$5,501	Total				
(U) <u>FY 2003 (\$ in Thousands)</u>					
(U) \$4,405	Continue Precision Engagement development and integration efforts				
(U) \$3,245	Continue 1760 Bus development and integration efforts				
(U) \$7,650	Total				
(U) <u>B. Budget Activity Justification</u>					
The A/OA-10 RDT&E program is in budget activity 7 - Operational System Development because it supports an operational system.					
(U) <u>C. Program Change Summary (\$ in Thousands)</u>					
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U) Previous President's Budget		9,626	3,049	10,257	TBD
(U) Appropriated Value		9,715	3,049		
(U) Adjustments to Appropriated Value					
a. Congressional/General Reductions		-68	-48		
b. Small Business Innovative Research		-278			
c. Omnibus or Other Above Threshold Reprogram		-1,196			
d. Below Threshold Reprogram		-50			
e. Rescissions		-21			
(U) Adjustments to Budget Years Since FY 2002 PBR			2,500	-2,607	
(U) Current Budget Submit/FY 2003 PBR		8,102	5,501	7,650	TBD
(U) <u>Significant Program Changes:</u>					
(U) Starting in FY02 Digital Data Link funding transferred from the A-10 SPO (PE 207131) to the Tactical Data Link SPO under PE 0207445F.					
(U) FY02 Congressional plus-up of 2.452 for Precision Engagement					
(U) FY03 adjustment of 2.607M reflects a reduction in program support and -2.6M ZBT'd to 3010 to cover IFFCC funding requirements.					
Project 4809	Page 2 of 5 Pages	Exhibit R-2 (PE 0207131F)			

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
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 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>Complete</u>	
(U) AF RDT&E									
(U) Other APPN									
(U) Aircraft Procurement, BP-11 (PE 27131F)	40,320	18,547	19,645	34,840	72,459	105,181	111,752	Continuing	TBD
(U) E. Acquisition Strategy									
The Integrated Flight and Fire Control Computer (IFFCC), Digital Terrain System (DTS), On-Board Oxygen Generating System (OBOGS), Precision Engagement, Digital Data Link (now under PE 0207445F), 1760 BUS, moving map, and flight data recorder 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 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
			1	2	3	4	1	2	3
(U) IFFCC production decision						*			
(U) IFFCC production contract award						*			
(U) Follow on IFFCC / Precision Engagement Systems Req. Review (SRR)						*			
(U) Precision Engagement Preliminary Design Review (PDR)							X		
(U) Precision Engagement Critical Design Review (CDR)									X
* =Completion X=Planned Event									

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT		
07 - Operational System Development					0207131F A-10 SQUADRONS			4809		
(U) A. Project Cost Breakdown (\$ in Thousands)										
					<u>FY 2001</u>		<u>FY 2002</u>			<u>FY 2003</u>
(U)	Integrated Flight and Fire Control Computer (IFFCC)				8,102		0			0
(U)	Precision Engagement				0		4,002			4,405
(U)	1760 Bus Upgrade				0		1,499			3,245
(U)	Mission Support				0		0			0
(U)	Total				8,102		5,501			7,650
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Performing Activity</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
Lockheed Martin Systems Integration	IFFCC/Next Generation IFFCC A-10 Prime Contract/CPAF	2Q99	TBD	TBD	0	8,102	0		0	8,102
Lockheed Martin Systems Integration	Onboard Oxygen Generating Systems (OBOGS)	2Q05	TBD	TBD	0	0	0	0	Continuing	TBD
Lockheed Martin Systems Integration	1760 Bus	1Q02	TBD	28,234	0	0	1,499	3,245	17,227	21,971
Lockheed Martin Systems	Precision	1Q02	TBD	39,560	0	0	4,002	4,405	21,648	30,055
Project 4809					Page 4 of 5 Pages			Exhibit R-3 (PE 0207131F)		

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 2002	
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>											
Integration Engagement											
Lockheed Martin Systems	Moving Map	2Q04	TBD	TBD	0	0	0	0	5,983	5,983	
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 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>	
<u>Product Development Property</u>											
<u>Support and Management Property</u>											
<u>Test and Evaluation Property</u>											
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
<u>Subtotals</u>					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>	
Subtotal Product Development					0	8,102	5,501	7,650	TBD	TBD	
Subtotal Support and Management											
Subtotal Test and Evaluation											
Total Project					0	8,102	5,501	7,650	TBD	TBD	