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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000		
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0207131F A-10 SQUADRONS</b>				PROJECT <b>674809</b>		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674809	A-10 Squadrons	2,170	8,013	8,615	8,933	10,189	44,416	9,172	Continuing	TBD
Quantity of RDT&E Articles		0	0	0	0	0	0	0	0	0
<p>(U) <b><u>A. Mission Description</u></b>                      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.</p> <p>RDT&amp;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.</p>										
<p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b></p> <p>(U) \$2,170                      Development for Integrated Flight and Fire Control Computer (IFFCC)</p> <p>(U) \$0                              - Software creation and debugging</p> <p>(U) \$0                              - OFP updates to IFFCC software</p> <p>(U) \$2,170                      Total</p>										
<p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b></p> <p>(U) \$4,181                      Continue software update/conversion and hardware development for (IFFCC)</p> <p>(U) \$3,832                      Initiate Common Data Link Solution</p> <p>(U) \$0                              - Software development and integration solutions</p> <p>(U) \$8,013                      Total</p>										
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BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0207131F A-10 SQUADRONS</b>			PROJECT <b>674809</b>		
(U) <b><u>A. Mission Description Continued</u></b>									
(U) <u>FY 2001 (\$ in Thousands)</u>									
(U)	\$4,411	Complete hardware development and modification of the Integrated Flight and Fire Control Computer (IFFCC)							
(U)	\$4,204	Begin software and hardware development for the Digital Terrain System (DTS)							
(U)	\$8,615	Total							
(U) <b><u>B. Budget Activity Justification</u></b>									
The A/OA-10 RDT&E program is in budget activity 7 - Operational System Development because it supports an operational system.									
(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b>									
			<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>			
(U)	Previous President's Budget (FY 2000 PBR)		2,305	8,108	9,085	TBD			
(U)	Appropriated Value		2,312	8,108					
(U)	Adjustments to Appropriated Value								
	a. Congressional/General Reductions		-7						
	b. Small Business Innovative Research		-96						
	c. Omnibus or Other Above Threshold Reprogram			-44					
	d. Below Threshold Reprogram		-27						
	e. Rescissions		-12	-51		TBD			
	f. Other					TBD			
(U)	Adjustments to Budget Years Since FY 2000 PBR				-470				
(U)	Current Budget Submit/FY 2001 PBR		2,170	8,013	8,615	TBD			
(U) <u>Significant Program Changes:</u>									
(U) <b><u>D. Other Program Funding Summary (\$ in Thousands)</u></b>									
		<u>FY 1999</u>	<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>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)	28,344	27,133	33,891	11,359	21,968	42,644	83,783	TBD

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(U) **D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u>	<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>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) RDT&E (PE 64270F)	2,200	3,000	2,000	1,000	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, and 1760 BUS 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 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Integrated Flight and Fire Control Computer (IFFCC) upgrade RDT&E		*										
(U) Digital Terrain System (DTS)									X			
(U) Common Data Link						X						

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000		
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207131F A-10 SQUADRONS			PROJECT 674809		
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Integrated Flight and Fire Control Computer (IFFCC)					2,170		4,181		4,411
(U)	Digital Terrain System (DTS)					0		0		4,204
(U)	Common Data Link					0		3,832		0
(U)	Total					2,170		8,013		8,615
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>										
(U) <b><u>Performing Organizations:</u></b>										
<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Lockheed Martin	IFFCC	2Q99	10,000	10,762		2,170	4,181	4,411	0	10,762
Federal Systems	A-10 Prime Contract/ CPAF									
Lockheed Martin Federal Systems	Digital Terrain System (DTS) A-10 Prime Contract CPAF	2Q01	TBD	TBD	0	0	0	4,204	Continuing	TBD
Lockheed Martin Federal Systems	Onboard Oxygen Generating Systems (OBOGS)	2Q02	TBD	TBD	0	0	0	0	1,747	1,747
LMFS	Digital Data Link (DDL)	2Q03	TBD	49,998	0	0	0	0	Continuing	TBD
LMFS	1760 Bus	2Q04	TBD	12,000	0	0	0	0	Continuing	TBD
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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
<b>07 - Operational System Development</b>				<b>0207131F A-10 SQUADRONS</b>				<b>674809</b>	
<b>(U) Performing Organizations Continued:</b>									
<u>Product Development Organizations</u>									
LMFS	Common Data	2Q00	TBD	3,832	0	0	3,832	0	3,832
	Link Solution								
<u>Support and Management Organizations</u>									
<u>Test and Evaluation Organizations</u>									
<b>(U) Government Furnished Property:</b>									
	<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				0	2,170	8,013	8,615	TBD	TBD
Subtotal Support and Management									
Subtotal Test and Evaluation									
Total Project				0	2,170	8,013	8,615	TBD	TBD