

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 EXHIBIT)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0207131F A-10 Squadrons	PROJECT 4809
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4809 A-10 Squadrons	0	2,305	8,108	9,085	4,308	10,280	44,847	9,271	TBD	TBD
Quantity of RDT&E Articles	0	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 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.

(U) 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 1998 (\$ in Thousands):

(U) \$0 Total

(U) FY 1999 (\$ in Thousands):

(U) \$2,298 Software development and updates for Integrated Flight and Fire Control Computer (IFFCC)

(U) 7 Identified as a source for SBIR

(U) \$2,305 Total

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0207131F A-10 Squadrons	February 1999 4809
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <p>(U) \$4,181 Continued software update/conversion and hardware development for the Integrated Flight and Fire Control Computer (IFFCC)</p> <p>(U) \$ 3,927 Initiate software development and integration for Situational Awareness Data Link (SADL)</p> <p>(U) \$8,108 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <p>(U) \$200 Develop and integrate the Airborne Data Recorder (ADR)</p> <p>(U) \$4,411 Complete hardware development and modification of the Integrated Flight and Fire Control Computer (IFFCC)</p> <p>(U) \$4,474 Begin software and hardware development for the Digital Terrain System (DTS)</p> <p>(U) \$9,085 Total</p> <p>(U) B. <u>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.</p>		
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(U) C. Program Change Summary (\$ in Thousands):

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY2000</u>	<u>FY2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY1999 PB)	0	2,312	6,956	6,761	TBD
(U) Appropriated Value	0	2,312			
(U) Adjustments to Appropriated Value					
a. Congressional/General Reduction		-7			
b. SBIR					
c. Omnibus or Other Above Threshold Reprogramming					
d. Below Threshold Reprogramming					
(U) Adjustments to Budget Years Since FY1999 PB			1,152	2,324	TBD
(U) Current Budget Submit/FY2000 PB	0	2,305	8,108	9,085	
 (U) Significant Program Change FY99: 7 Identified as a source for SBIR					

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

	<u>FY 1998</u>	<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>	To <u>Compl</u>	Total <u>Cost</u>
(U) Aircraft Procurement, BP-11 (PE 27131F)	21,163	31,000	24,360	44,086	19,898	26,323	38,750	74,322	TBD	TBD
(U) RDT&E (PE 64270F)	1,078	2,200	3,000	2,000	1,000	0			TBD	15,678

(U) E. Acquisition Strategy:

The Integrated Flight and Fire Control Computer (IFFCC), Airborne Data Recorder (ADR), Digital Terrain System (DTS), On-Board Oxygen Generating System (OBOGS), Digital Data Link (DDL), and 1760 BUS development will be conducted under the A-10 Prime Contract which was awarded in March 1998 on a full-and-open basis. CPAF contract awarded for specific modernization efforts.

(U) F. Schedule Profile:

	<u>FY 1998</u>			<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					X							
(U) Airborne Data Recorder (ADR)											X	
(U) Digital Terrain System (DTS)											X	
(U) Situational Awareness Data Link (SADL)								X				

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0207131F A-10 Squadrons	PROJECT 4809
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(U) A. Project Cost Breakdown (\$ in Thousands):

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Integrated Flight and Fire Control Computer (IFFCC)	0	2,298	4,181	4,411
(U) Airborne Data Recorder (ADR)	0	0	0	0,200
(U) Digital Terrain System (DTS)	0	0	0	4,474
(U) Situational Awareness Data Link (SADL)	0	0	3,927	0
(U) Identified as a source		7		
(U) Total	0	2,305	8,108	9,085

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BUDGET ACTIVITY
7 - Operational System Development

PE NUMBER AND TITLE
0207131F A-10 Squadrons

(U) B. Budget Acquisition History and Planning Information (\$ in Thousands):

Performing Organizations:

Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
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Product Development Organizations

Identified as a source for SBIR							7				
Lockheed Martin Federal Systems	Integrated Flight and Fire Control Computer (IFFCC) A-10 Prime Contract/CPAF	2Q99	10,000	10,897	0	0	2,298	4,181	4,411	0	10,897
	Airborne Data Recorder (ADR) A-10 Prime Contract/CPAF	1Q01	TBD	0,200	0	0	0	0	200	0	200

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BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207131F A-10 Squadrons					PROJECT 4809	
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	Digital Terrain System (DTS) A-10 Prime Contract/CPAF	1Q01	TBD	9,437	0	0	0	0	4,474	4,963	9,437
	On-Board Oxygen Generating System (OBOGS) A-10 Prime Contract/CPAF	1Q02	TBD	1,747	0	0	0	0	0	1,747	1,747
	Digital Data Link (DDL) A-10 Prime Contract/CPAF	1Q03	TBD	50,014	0	0	0	0	0	51,014	51,014

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Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
	1760 BUS A-10 Prime	1Q04	TBD	12,000	0	0	0	0	0	12,000	12,000
	Contract/CPAF SADL A-10 Prime	1Q00	TBD	9,927				3,927			9,927
	Contract/CPAF *SADL requires additional 6.0M in FY01										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		
BUDGET ACTIVITY								February 1999		
7 - Operational System Development				PE NUMBER AND TITLE				PROJECT		
				0207131F A-10 Squadrons				4809		
<u>Government Furnished Property:</u> None										
<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
Identified as a source for SBIR				-		7				
Subtotal Product Development				0	0	2,298	6,717	4,655	59,979	59,979
Subtotal Support and Management				0	0	0	891	330	7,056	7,056
Subtotal Test and Evaluation				0	0	0	500	4,100	21,169	21,169
Total Project						2,305	8,108	9,085	88,204	88,204

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