

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE June 2001
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0401134F Large Aircraft InfraRed Counter Measures (LAIRCM)	PROJECT 4885
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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
4885 Large Aircraft Infrared Counter Measures (LAIRCM)	0	0	62,530	20,254	13,373	0	0	0	0	96,158
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	3

Note: FY03-07 budget numbers do not reflect the DOD strategic review results. The LAIRCM RTD&E funds, shown here, have been transferred to this new PE (41134F) from the C-17 (PE 41130F) and the C-130 (PE 41115F). This new PE consolidates LAIRCM RDT&E and Procurement funds into a single PE for this 'cross-cutter' program. It is a continuation of the LAIRCM program which completed all of its required NEW START notifications in FY01 for RDT&E on a limited number of C-17s and C-130s.

(U) A. Mission Description

The Large Aircraft Infrared Countermeasures System (LAIRCM) will provide a very effective defensive capability for transport and tanker aircraft against the proliferating IR Man-Portable Air Defense Systems (MANPADS) threat. LAIRCM is significantly more effective than today's traditional employment of flares. It will require no operator intervention after the system is activated. LAIRCM will consist of an advanced integrated missile warning system or systems and an active laser countermeasures system. There is a multi-command Operational Requirements Document (ORD) -- LAIRCM ORD 314-92, validated on 3 Aug 98.

LAIRCM is currently in source selection and expects to be on contract by Sep 01 for Phase I using FY01 PE 41130F funds discussed in footnote above.

LAIRCM Phase I will be deployed on a small number of transport aircraft (12 C-17s and 8 C-130s). FY01 is the first year for C-17 LAIRCM funding; FY02 is the first year for C-130 funding. LAIRCM Phase II will modify an additional 59 aircraft, completing the 79 aircraft (43 C-17s, 24 C-130s & 12 KC-135s) required to handle One Small Scale Contingency (1 SSC). Funding and kit procurement for Phase II is planned to begin in FY05.

Installation of this system will significantly increase the survivability of transport and tanker aircraft operating in areas with IR MANPADS threats. The first C-17 LAIRCM mod will be completed in early FY04. RDT&E funds shown here, will be used for non-recurring engineering (NRE), systems integration, test and evaluation.

(U) FY 2000 (\$ in Thousands)

- (U) \$0 No activity
- (U) \$0 Total

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BUDGET ACTIVITY		PE NUMBER AND TITLE		PROJECT	
07 - Operational System Development		0401134F Large Aircraft InfraRed Counter Measures (LAIRCM)		4885	
(U) A. Mission Description Continued					
(U) FY 2001 (\$ in Thousands)					
(U)	\$0	Note: FY01 is LAIRCM's initial funding and these funds are in PE 41130F, BPAC 4886.			
(U)	\$0	Total			
(U) FY 2002 (\$ in Thousands)					
(U)	\$26,804	Continue design and software development for basic LAIRCM system plus the integration of LAIRCM on the C-17 which began in FY01 (This funding is in C-17's PE 41130F).			
(U)	\$29,326	1. Initial design, drawings, specifications, and development of peculiar support equipment for installation of LAIRCM on the C-130. 2. C-17 Kit buys Group A - one prototype kit Group B - one prototype kit 3. Software development for both C-17 and C-130			
(U)	\$6,400	Program office support (TDY, training, supplies, and SETA contract support)			
(U)	\$62,530	Total			
(U) B. Budget Activity Justification					
This program is Budget Activity 7, Operational System Development, for continuing producibility and performance improvements to increase the operational capability of the C-17 and C-130 fleet through programmed modifications.					
(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)				
(U)	Appropriated Value				
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions				
	b. Small Business Innovative Research				
	c. Omnibus or Other Above Threshold Reprogram				
	d. Below Threshold Reprogram				
	e. Rescissions				
Project 4885		Page 2 of 5 Pages		Exhibit R-2 (PE 0401134F)	

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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT				
07 - Operational System Development				0401134F Large Aircraft InfraRed Counter Measures (LAIRCM)			4885				
(U) C. Program Change Summary (\$ in Thousands) Continued											
				<u>FY 2000</u>	<u>FY 2001</u>		<u>FY 2002</u>	<u>Total Cost</u>			
(U)	Adjustments to Budget Years Since FY 2001 PBR						62,530	96,158			
(U)	Current Budget Submit/FY 2002 PBR						62,530	96,158			
	LAIRCM funding was ZBTed to this PE from PEs 41130F and 41115F during the preparation of the FY02 budget.										
(U) Significant Program Changes:											
	The basic LAIRCM system development and C-17 LAIRCM integration was an FY01 NEW START in PE 41130F. For FY01, all RDT&E funds remained in this PE. By FY02, all the LAIRCM RDT&E and Procurement funds had been transferred to this new consolidated LAIRCM PE (PE 41134F).										
(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)	0	44,883							0	44,883	
(U)	Other APPN										
(U)	0	0	33,370	51,566	51,135	6,258	6,265		0	148,594	
	Procurement (BP1100)										
(U)	0	0	0	33,705	47,202	6,056	7,882		0	94,845	
	Procurement (BP1100)										
(U) E. Acquisition Strategy											
	Integration of the LAIRCM subsystems will be fully competed and be performed by the winning contractor. This contract is in source selection now, with contract planned for Sep 01. Boeing will install LAIRCM on the C-17 (since it's still in production with an open assembly line). C-130 installations are still to be determined.										
(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)	Phase I EMD: 1 Qtr FY02										
	X - Denotes start										
									X		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001				
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0401134F Large Aircraft InfraRed Counter Measures (LAIRCM)			PROJECT 4885			
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
(U)	LAIRCM									62,530	
(U)	Total									62,530	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	<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 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	Prime Contractor - TBD								56,130	26,628	82,758
	<u>Product Development Organizations</u>										
	System Program Office/Other								6,400	7,000	13,400
	Govt Costs										
	<u>Support and Management Organizations</u>										
	TBD										
	<u>Test and Evaluation Organizations</u>										
	TBD										
(U) Government Furnished Property:											
	<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 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Product Development Property</u>										
	TBD										
	<u>Support and Management Property</u>										
	TBD										

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(U) Government Furnished Property Continued:							
<u>Test and Evaluation Property</u>							
TBD							
<u>Subtotals</u>		<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
Subtotal Product Development					56,130	26,628	82,758
Subtotal Support and Management					6,400	7,000	13,400
Subtotal Test and Evaluation							
Total Project					62,530	33,628	96,158