PE NUMBER: 0401130F PE TITLE: C-17 Aircraft

	RDT&E BUDGET ITEM	DATE	February 2003								
BUDGET ACTIVITY 07 - Operational System Development			PE NUMBER AND TITLE 0401130F C-17 Aircraft								
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	106,005	153,797	184,089	200,215	141,525	86,443	120,044	153,810	0	7,139,869
2569	C-17 Aircraft	106,005	153,797	184,089	200,215	141,525	86,443	120,044	153,810	0	7,094,986
4886	Large Aircraft Infrared Counter Measures (LAIRCM)	0	0	0	0	0	0	0	0	0	44,883
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

FY02 and later funds for LAIRCM were ZBTed to PE 41134F.

(U) A. Mission Description

The C-17 can perform the entire spectrum of airlift missions and is specifically designed to operate effectively and efficiently in both strategic and theater environments. Airlift provides essential flexibility when responding to contingencies on short notice anywhere in the world. It is a major element of America's national security strategy and constitutes the most responsive means of meeting U.S. mobility requirements. Specific tasks associated with the airlift mission include deployment, employment (airland and airdrop), sustaining support, retrograde, and combat redeployment. The C-17 provides a vast increase in overall airlift capability necessary to replace and exceed the capabilities lost from retiring the aging C-141 fleet from the Air Force inventory. Not only can the C-17 deliver outsize cargo to austere tactical environments, but it also reduces ground time during airland operations. The C-17 will perform the airlift mission well into this century. RDT&E efforts support producibility enhancements and performance improvements.

(U) B. Budget Activity Justification

This program is budget activity 7, Operational System Development, because the program has completed Milestone III and is continuing producibility and performance improvements to support full-rate production and increase the operational capability of the C-17 through programmed modifications.

Page 1 of 7 Pages

Exhibit R-2 (PE 0401130F)

	RDT&E BUDGET ITEM JUSTIFIC	DATE Febru	ary 2003		
	GET ACTIVITY - Operational System Development	PE NUMBER AND TITLE 0401130F C-17 Airc	raft		
(U)	C. Program Change Summary (\$ in Thousands)				
		<u>FY 2002</u>	FY 2003	FY 2004	Total Cost
(U)	Previous President's Budget	109,513	157,213	135,674	7,139,869
(U)	Appropriated Value	109,513	157,213		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions		-1,662		
	b. Small Business Innovative Research	-2,992			
	c. Omnibus or Other Above Threshold Reprogram		-1,754		
	d. Below Threshold Reprogram				
	e. Rescissions	-516			
(U)	Adjustments to Budget Years Since FY 2003 PBR			48,415	
(U)	Current Budget Submit/FY 2004 PBR	106,005	153,797	184,089	7,139,869
(U)	Significant Program Changes:				

A second project, 674886, was added to the C-17 Program Element for the Large Aircraft Infrared Countermeasures (LAIRCM). All FY 02 and later funds for LAIRCM were ZBTed to PE 41134F.

FY04 adjustment includes funding for additional C-17 Global Air Traffic Management (GATM) requirements, Mission Computer/Central Integrated Processor, and Cargo Delivery System Improvements.

Page 2 of 7 Pages

Exhibit R-2 (PE 0401130F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										y 2003
BUDGET ACTIVITY 07 - Operational System Development		PE NUMBER AND TITLE 0401130F C-17 Aircraft								PROJECT 2569
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
2569 C-17 Aircraft	106,005	153,797	184,089	200,215	141,525	86,443	120,044	153,810	0	7,094,986

(U) A. Mission Description

The C-17 can perform the entire spectrum of airlift missions and is specifically designed to operate effectively and efficiently in both strategic and theater environments. Airlift provides essential flexibility when responding to contingencies on short notice anywhere in the world. It is a major element of America's national security strategy and constitutes the most responsive means of meeting U.S. mobility requirements. Specific tasks associated with the airlift mission include deployment, employment (airland and airdrop), sustaining support, retrograde, and combat redeployment. The C-17 provides a vast increase in overall airlift capability necessary to replace and exceed the capabilities lost from retiring the aging C-141 fleet from the Air Force inventory. Not only can the C-17 deliver outsize cargo to austere tactical environments, but it also reduces ground time during airland operations. The C-17 will perform the airlift mission well into this century. RDT&E efforts support producibility enhancements and performance improvements.

(U) <u>FY 2002 (\$ in Thousands)</u>

(U)	\$54,620	Performance Improvement Development & Testing
(U)	\$29,116	Systems Engineering / Program Management
(II)	\$12.769	Contractor System Test & Evaluation

(U) \$12,769 Contractor System Test & Evaluation

(U) \$9,500 Producibility Enhancement / Performance Improvement (PE/PI) Government Flight Test

(U) \$106,005 Total

(U) FY 2003 (\$ in Thousands)

(U)	\$91,496	Performance Improvement	Development & Testing

(U) \$35,900 Systems Engineering/Program Management

(U) \$16,051 Contractor System Test & Evaluation

(U) \$10,350 Producibility Enhancement/Performance Improvement (PE/PI) Government Flight Test

(U) \$153,797 Total

Project 2569 Page 3 of 7 Pages Exhibit R-2A (PE 0401130F)

	RDT&E BU	DATE February 2003										
	GET ACTIVITY - <mark>Operational System</mark>		NUMBER AN 401130F	D TITLE C-17 Airc i	raft			PROJECT 2569				
(U)	A. Mission Description Co	ontinued										
(U) (U) (U) (U) (U) (U)	(U) \$113,639 Performance Improvement Development & Testing (U) \$39,200 Systems Engineering/Program Management (U) \$18,550 Contractor System Test & Evaluation (U) \$12,700 Producibility Enhancement/Performance Improvement (PE/PI) Government Flight Test											
(U)	B. Project Change Summa	nry										
(U)	C. Other Program Fundin	g Summary (\$	in Thousan	<u>ds</u>)								
		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost	
		<u>Actual</u>	Estimate	Estimate	<u>Estimate</u>	Estimate	Estimate	Estimate	Estimate	<u>Complete</u>		
(U)	APAF, MYP, BA02, PE0401130F	2,789,394	3,147,937	2,017,270	2,556,365	2,590,833	2,372,600	303,200	54,700	0	15,832,299	
(U)	APAF, ICS, PE0401130F	489,390	532,750	927,627	907,968	781,100	778,801	728,806	777,316	0	5,923,758	
(U)	APAF, A/C Mods, BA05, PE0401130F	98,764	49,357	20,113	9,248	221,059	254,040	446,408	438,568	0	1,537,557	
(U)	MilCon, Facilities, PE0401130F	40,983	73,133	70,047	61,800	92,400	148,800	7,400	1,400	0	495,963	
(U)	D. Acquisition Strategy The C-17 Acquisition Strate procurement (MYP) aircraft Improvement (PE/PI) contra	contract (to ec	onomically p	urchase the f	full complem	ent of produc	tion aircraft)	- (APAF); 2)	a Producibil	ity Enhancement a	nd Performance	

The congressionally mandated Mobility Requirements Study (MRS), initially forwarded to Congress on 23 Jan 92 and updated in 1995 and again in 2001, validated the need for the C-17 aircraft. Two C-17 Defense Acquisition Board (DAB) decisions, contained in the 3 Nov 95 and 1 Feb 96 USD(A&T) Acquisition Decision

Equipment [GFE] engines) - (APAF); and 5) a set of simulator and training contracts: two aircrew training systems (ATS) contracts (one for aircrew simulators and one

Flexible Sustainment (field support) contract (to support the current and future fielded aircraft) - (APAF); 4) a MYP engine contract (for Government Furnished

for training & concurrency upgrades), and a maintenance training device contract (for devices & concurrency upgrades) - (APAF).

Project 2569 Page 4 of 7 Pages Exhibit R-2A (PE 0401130F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 07 - Operational System Development 0401130F C-17 Aircraft 2569 (U) D. Acquisition Strategy Continued Memoranda (ADM), directed the Air Force to proceed with a 120-aircraft production program and pursue a multi-year procurement for the last 80 aircraft. The FY96 Supplemental Appropriations Act and FY97 Defense Appropriations Act approved a 7-year MYP program. The Air Force is proceeding with an 80-aircraft MYP program (along with engines to support them) to complete a 120-aircraft total purchase at the maximum affordable rate (FY97-03 Quantity: 8-9-13-15-12-15-8), beginning with the economic order quantity (EOQ) funding in FY96. Sixty additional C-17s have been programmed at the end of the 80-aircraft MYP to replace Air Mobility Command's (AMC's) C-141 aircraft and meet requirements not included in the 120 aircraft program. The adjusted program is (FY03-07 Quantity): 7-11-14-15-13. During FY04 the Air Force will continue evaluation of commercial C-17 Civil Reserve Air Fleet (CRAF) applications and feasibility. The Air Force will evaluate commercial market opportunities with industry to reduce the Government's risk. In addition, commercial practices and design changes required for an FAA-certifiable version of the C-17 will be investigated. Airlift service agreements with commercial partners, however, will not be negotiated until authorized by law. New Starts For FY 04: Mission Computer Core Integration Processor (CIP) (U) E. Schedule Profile 4 X (U) Incremental Funding of Ongoing Performance Improvement Projects (FY03) (U) Software Block 16 - (FY03) X (U) T1 Integrated Drive Generator (FY03) X (U) Liquid Oxygen Bottle Crew Armor (12.7 mm) (FY03) X Required Navigation Performance (RNP) Improvements (FY03) X X Army Communication Requirements (SECOMP-1) (FY03) Covert Lighting (FY03) X (U) Mission Computer /Core Integrated Processor X * = completed event - contract obligation X = planned event - contract obligation

Exhibit R-2A (PE 0401130F)

Project 2569

	RDT&E PROC	RAM ELE	MENT/P	ROJECT (COST BI	REAKDO	WN (R-3))	DATE F (ebruary 2	003		
	ET ACTIVITY Operational System	Developme	nt		PE NUMB 04011 3	•	-	PROJECT 2569					
(U)	A. Project Cost Breakdown	ı (\$ in Thousan	ds)										
							<u>FY /</u>		FY 200		FY 2004		
(U)	Contractor Furnished Engine	_						378	143,31		171,250		
(U)	Government Test & Other G	overnment Cost	s (OGC)					,627	10,48		12,839		
(U)	Total						106,	005	153,79	7	184,089		
(U)	U) B. Budget Acquisition History and Planning Information (\$ in Thousands)												
(U)	Performing Organizations:												
	Contractor or	Contract											
	Government	Method/Type	Award or	Performing	<u>Project</u>								
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	<u>Budget</u>	<u>Budget</u>	Budget	Budget to	<u>Total</u>		
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program		
	Product Development Organ												
	Boeing	C,FPI/FP	8/31/81	5,000,000	5,190,366	4,954,767				0	4,954,767		
	Boeing	C,CPFF	7/13/95	1,352,095	1,352,095	483,368	96,378	143,317	171,250	627,230	1,521,543		
	Pratt & Whitney	C,FP	5/24/91	25,346	25,346	25,346				0	25,346		
	Boeing	C,FPI	4/14/89	83,885	83,885	83,885				0	83,885		
	Pratt & Whitney	FP+EPA	4/18/95	7,831	7,831	7,506				0	7,506		
	Support and Management Or												
	Mission Support OGC	PO				97,615	0	0		0	97,615		
	Site Activation OGC	PO				1,539				0	1,539		
	Miscellaneous					22,400				0	22,400		
	Test and Evaluation Organiza												
	Combined Test Force	PO				259,245	9,500	10,350	12,700	74,000	365,795		
	Wright Labs/Arnold Eng	PO				10,357	127	130	139	807	11,560		
	Dev Center												
	Other	PO				3,030				0	3,030		
Р	roject 2569			Pa	age 6 of 7 Pag	ges			Exhib	it R-3 (PE 0	401130F)		

RDT&E PROGRA	DATE February 2003								
BUDGET ACTIVITY 07 - Operational System Deve	elopment			ER AND TITLE 30F C-17 A			PROJECT 2569		
	tract hod/Type Award or unding Obligation icle Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	<u>Total</u> <u>Program</u>
None Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project				Total Prior to FY 2002 5,554,872 121,554 272,632 5,949,058	Budget FY 2002 96,378 0 9,627 106,005	Budget FY 2003 143,317 0 10,480 153,797	Budget FY 2004 171,250 12,839 184,089	Budget to Complete 627,230 0 74,807 702,037	Total Program 6,593,047 121,554 380,385 7,094,986
Project 2569			Page 7 of 7 Pag	ges			Exhib	it R-3 (PE 04	101130F)