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

Exhibit R-2, RDT&E Budget Item Justification									February 2	2005
BUDGET ACTIVITY 07 Operational System Development					BER AND TITLE OF C-17 Air					
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	174.902	199.915	165.762	173.251	176.190	192.337	174.327	164.678	Continuing	TBD
2569 C-17 Aircraft	174,902	199,915	165.762	173.251	176,190	192,337	174.327	164,678	Continuing	TBD

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

(U) A. Mission Description and Budget Item Justification

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 aircraft performance improvements.

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

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007
(U) Previous President's Budget	183.913	199.692	141.141	166.101
(U) Current PBR/President's Budget	174.902	199.915	165.762	173.251
(U) Total Adjustments	-9.011	0.223		
(U) Congressional Program Reductions		-1.777		
Congressional Rescissions	-1.100			
Congressional Increases		2.000		
Reprogrammings	-3.138			
SBIR/STTR Transfer	-4.773			

(U) Significant Program Changes:

FY06/07 increases are for several new projects, including Airdrop Improvements, Identification Friend/Foe (IFF) Mode 5 & Global Air Traffic Management (GATM) IFF Mode S Enhanced S, Crew Armor Protection Phase II (12.7 mm), and Demand Assigned Multiple Access (DAMA).

The FY03 National Defense Authorization Act (NDAA) language directed T&E centers to charge only direct costs beginning FY06; this reduction in FY06-FY11 is a result of the ZBT transferring indirect dollars from the customer accounts to PE 65807F, T&E Support.

R-1 Shopping List - Item No. 213-1 of 213-6

Exhibit R-2 (PE 0401130F

	Exhibit R-2a, RDT&E Project Justification									February 2005			
	er ACTIVITY perational System Development					BER AND TITLE OF C-17 Air		•	OJECT NUMBEI 69 C-17 Airc				
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total		
2569	C-17 Aircraft	174.902	199.915	165.762	173.251	176.190	192.337	174.327	164.678	Continuing	TBD		
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0				

(U) A. Mission Description and Budget Item Justification

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 aircraft performance improvements.

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

	(U) B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
ŀ	(U) Performance Improvement Development & Testing	100.934	124.425	91.691	92.651
I	(U) Systems Engineering/Program Management	42.506	34.649	35.293	36.900
I	(U) Producibility Enhancement/Performance Improvement (PE/PI) Contractor Flight Test	16.338	19.820	26.900	27.800
I	(U) Producibility Enhancement/Performance Improvement (PE/PI) Government Flight Test	15.124	21.021	11.878	15.900
	(U) Total Cost	174.902	199.915	165.762	173.251

(U) C. Other Program Funding Summary (\$ in Millions)

(-	Cromer ringram ramanig be	THE TOTAL PARTY	· IIIIOIID							
		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete Total Cost
		<u>Actual</u>	Estimate	Complete Total Cost						
(U	APAF, MYP, BA02, PE0401130F	2099.873	2633.679	2790.859	2328.012	344.935	345.363	310.844	289.044	0.000 11,142.60 9
(U) APAF, ICS, PE0401130F	910.964	931.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000 1,842.053
(U	APAF, A/C Mods, BA05, PE0401130F	80.285	87.786	260.826	395.261	499.540	501.419	390.683	381.588	0.000 2,597.388
(U	MilCon, Facilities, PE0401130F	74.145	55.244	70.300	173.928	46.071	1.204	0.000	0.000	0.000 420.892

In FY06, aircraft interim contract support (ICS) transitions to contractor logistic support (CLS). Sustainment funds were transferred from ICS to O&M. Funds for initial spares and other non-CLS efforts were transferred from ICS to MYP.

(U) D. Acquisition Strategy

Project 2569 R-1 Shopping List - Item No. 213-2 of 213-6 Exhibit R-2a (PE 0401130F)

Exhibit R-2a, RDT&E Project Justi	ification	DATE February 2005
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	0401130F C-17 Aircraft	2569 C-17 Aircraft

The C-17 Acquisition Strategy is based on five separate contracts to support the entire scope of the C-17 weapon system. These five contracts are: 1) a multi-year procurement (MYP) aircraft contract (to economically purchase the full complement of production aircraft) - (APAF); 2) a Producibility Enhancement and Performance Improvement (PE/PI) contract (to develop cost reduction changes, capability enhancements, and design fixes to service-revealed problems) - (RDT&E, APAF); 3) a Globemaster III Sustainment Partnership (field support) contract (to support the current and future fielded aircraft) - (APAF); 4) a MYP engine contract (for Government Furnished 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 for training & concurrency upgrades), and a maintenance training device contract (for devices & concurrency upgrades) - (APAF).

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 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 proceeded 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 are 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 original program was (FY03-07 Quantity): 7-11-14-15-13. Congressional direction during the FY 05 budget process has added an additional aircraft in FY 05 and removed one aircraft in FY 07. The new program (FY 03 through FY 07 quantities) is 7-11-15-15-12.

Project 2569 R-1 Shopping List - Item No. 213-3 of 213-6 Exhibit R-2a (PE 0401130F)

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		uary 200)5
BUDGET ACTIVITY <mark>07 Operational System Developm</mark>	ent					IUMBER A 1130F C		raft			ECT NUM C-17 A	BER AND		
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) (U) Product Development	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Boeing Boeing Pratt & Whitney Boeing Pratt & Whitney None	C,FPI/FP C,CPFF C,FP C,FPI FP+EPA		5,337.804 719.235 25.346 83.885 7.506	159.639 159.639	Jan-04	178.745 178.745	Jan-05	153.734 153.734	Jan-06	157.191	Jan-07	638.192 0.000 0.000 0.000	25.346 83.885 7.506 0.000	0.000
Subtotal Product Development Remarks: (U) Support Mission Support OGC Site Activation OGC Miscellaneous None	PO PO		97.800 1.500 22.400	139.039		1/8./43		155.754		157.191		0.000 0.000 0.000	97.800 1.500 22.400 0.000	0.000
Subtotal Support Remarks: (U) Test & Evaluation Combined Test Force Wright Labs/Arnold Eng Dev Center Other	PO PO PO		281.336 10.443 3.150	0.000 15.124 0.139	Jan-04 Oct-03	0.000 21.021 0.149	Jan-05 Oct-04	0.000 11.878 0.150	Jan-06 Oct-05	0.000 15.900 0.160	Jan-07 Oct-06	0.000 68.600 0.740 0.000	121.700 413.859 11.781 3.150	0.000
None Subtotal Test & Evaluation Remarks: (U) Management			294.929	15.263		21.170		12.028		16.060		69.340	0.000 428.790	0.000
Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) Total Cost			6,590.405	174.902		199.915		165.762		173.251		707.532	8,011.767	0.000
Project 2569			D 1 Ch	onning Lie	t Itom No	. 213-4 of 2	242 6					F. J. ib.	it R-3 (PE 04	404400E)

DATE Exhibit R-4, RDT&E Schedule Profile February 2005 PROJECT NUMBER AND TITLE BUDGET ACTIVITY PE NUMBER AND TITLE 07 Operational System Development 0401130F C-17 Aircraft 2569 C-17 Aircraft C-17 Schedule 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 1st Full Funded Production Lot Source Selection Decision FOC Full Rate Production Contract Award Milestone III Milestones Start FSED Multi-Year II Award RM&AE Contract Award Follow-on Flex Sust Contract Award Milestone IIIB Low-Rate Initial Production Milestone II Flex Sust Contract Award GSP Contract Award Planned PE/PI Follow-on Contract Award PE/PI Contract Award First Flight Test T-1 First Flight Verification DT&E IOC (Delivery of 12 A/C to sqdn) 4 UK C-17s P-100 Delivery C-17 P-1 - P-180 A/C Deliveries Deliveries P-1 through P-180 Aircraft Modification C-17 Modifications 10 A/C Modified pre-delivery Jackson 4 Travis McChord McGuire ◀ Charleston Elmendorf Site Activations 1ST A/C Delivered March | Altus Dover Hickam 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 Project 2569 R-1 Shopping List - Item No. 213-5 of 213-6 Exhibit R-4 (PE 0401130F)

UNCLASSIFIED										
Exhibit R-4a, RDT&E Schedule Detail February 2005										
PE NUMBER AND TITLE 0401130F C-17 Aircraft		PROJECT NUMBER AND TITI 2569 C-17 Aircraft	_E							
<u>FY 2004</u>	FY 2005	FY 2006	FY 2007							
1-3Q	1-3Q	1-3Q	1-3Q							
2Q										
3Q										
2Q										
1Q										
			1Q							
		1Q								
			1Q							
			1Q							
2Q	1Q	2Q	1Q							
	PE NUMBER AND TITLE 0401130F C-17 Aircraft FY 2004 1-3Q 1Q 2Q 3Q 2Q	PE NUMBER AND TITLE 0401130F C-17 Aircraft FY 2004 1-3Q 1Q 2Q 3Q 2Q 1Q 1Q	PE NUMBER AND TITLE PROJECT NUMBER AND TITLE 2569 C-17 Aircraft 2569 C-17 Aircraft							

Exhibit R-4a (PE 0401130F)

Project 2569