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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force											Date: March 2014	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0401130F / <i>C-17 Aircraft (IF)</i>							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	76.569	97.134	83.773	-	83.773	56.172	55.168	66.032	67.486	Continuing	Continuing
672569: <i>C-17 Aircraft</i>	-	76.569	97.134	83.773	-	83.773	56.172	55.168	66.032	67.486	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: 200												
# The FY 2015 OCO Request will be submitted at a later date. 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 mobility requirements. Specific tasks associated with the airlift mission include deployment, employment (airland and airdrop), sustaining support, retrograde, and combat redeployment. 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 its airlift mission well into this century. C-17 RDT&E funding efforts support, but are not limited to: aircraft performance improvements and airspace access mandates (i.e., Communications/Navigation Improvements); flight test activities and facilities; development of solutions for obsolescence and safety of flight issues; systems engineering/program management administration support; maintenance of avionics laboratories; block development/change management; proposal preparation for new projects; cost estimating and engineering/acquisition studies not related to requirements generation. This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												

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B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		99.225	109.134	93.818	-	93.818
Current President's Budget		76.569	97.134	83.773	-	83.773
Total Adjustments		-22.656	-12.000	-10.045	-	-10.045
• Congressional General Reductions		-0.114	-			
• Congressional Directed Reductions		-13.000	-12.000			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-2.220	-			
• Other Adjustments		-7.322	-	-10.045	-	-10.045
Change Summary Explanation						
FY13 adjustments are from SBIR (\$2.22M), Sequestration (\$7.322M), and a Congressional Directed Reduction due to unobligated balances (\$13M).						
FY14 adjustments are from a Congressional Directed Reduction due to program decrease (\$9M) and Program Management Administration growth (\$3M).						
FY15 adjustment of \$10.045M is due to higher AF priorities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2013	FY 2014	FY 2015
Title: Performance Improvement and Obsolescence				49.545	69.876	55.795
Description: Continued development of C-17 aircraft performance improvements for its avionics, aircraft and mission systems and the development of solutions to emergent obsolescence and safety of flight issues and airspace access mandates.						
FY 2013 Accomplishments: Continued development of C-17 aircraft performance improvements/mandates to include projects such as, but not limited to, development efforts in support of C-17 operational efficiencies, Replacement Heads up Display (RHUD), Replacement Core Integrated Processor (RCIP) obsolescence, Communication and Navigation Capability, and Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) System - Phase 1 Surveillance. Completes efforts on Instrument Landing System Identification (ILS ID) & Flight Control Computer (FCC) updates, Identification Friend or Foe (IFF) Mode 5, and Airdrop improvements.						
FY 2014 Plans:						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Continue development of C-17 aircraft performance improvements/mandates to include projects such as, but not limited to, RHUD, RCIP Obsolescence, and CNS/ATM System - Phase 1 Surveillance. Completes Communication and Navigation Capability. Initiates CNS/ATM Phase 2 Communication. FY 2015 Plans: Continued development of C-17 aircraft performance improvements/mandates to include projects such as, but not limited to, RHUD, RCIP Obsolescence, and CNS/ATM System - Phase 1 Surveillance, CNS/ATM Phase 2 Communication. Begins efforts to redesign On-Board Gas Generation System II (OBIGGS II) shut off valve to eliminate the potential for OBIGGS II filter fires.				
Title: Systems Engineering/Program Managment Description: Continuation of Systems Engineering/prime contractor Program Management (SE/PM). Funding supports software updates, system integration and software development laboratories, test facilities, and programmatic efforts in support of C-17. FY 2013 Accomplishments: Continued SE/PM. Funding supports software updates, system integration and software development laboratories, test facilities, and programmatic efforts in support of C-17. FY 2014 Plans: Continuation of SE/PM. Funding supports software updates, system integration and software development laboratories, test facilities, and programmatic efforts in support of C-17. FY 2015 Plans: Continuation of SE/PM. Funding supports software updates, system integration and software development laboratories, test facilities, and programmatic efforts in support of C-17.		9.651	7.758	8.478
Title: Boeing Flight Test Description: Continues contractor testing of new capabilities as required. Costs include maintenance on test aircraft, contractor engineering support for test related technical and safety of flight issues, test planning, test analysis and test execution. FY 2013 Accomplishments: Continued contractor testing of new capabilities as required. Costs include maintenance on test aircraft, contractor engineering support for test related technical and safety of flight issues, test planning, test analysis and test execution. FY 2014 Plans:		13.399	13.000	12.000

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Continuation of contractor testing of new capabilities as required. Costs include maintenance on test aircraft, contractor engineering support for test related technical and safety of flight issues, test planning, test analysis and test execution.												
FY 2015 Plans: Continuation of contractor testing of new capabilities as required. Costs include maintenance on test aircraft, contractor engineering support for test related technical and safety of flight issues, test planning, test analysis and test execution.												
Title: Edwards Flight Test										3.974	6.500	7.500
Description: Continues direct costs of flight testing. The costs include ramp space, fuel, air traffic control, range costs, etc., which are items each weapon system must pay when using Air Force flight test locations.												
FY 2013 Accomplishments: Continued direct costs of flight testing. The costs include ramp space, fuel, air traffic control, range costs, etc., which are items each weapon system must pay for when using Air Force flight test locations.												
FY 2014 Plans: Continuation of direct costs of flight testing. The costs include ramp space, fuel, air traffic control, range costs, etc., which are items each weapon system must pay for when using Air Force flight test locations.												
FY 2015 Plans: Continuation of direct costs of flight testing. The costs include ramp space, fuel, air traffic control, range costs, etc., which are items each weapon system must pay for when using Air Force flight test locations.												
Accomplishments/Planned Programs Subtotals										76.569	97.134	83.773
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• APAF: BA05: Line Item # C01700: Aircraft Modifications	195.608	98.197	127.494	-	127.494	94.947	123.341	118.569	85.155	Continuing	Continuing	
• APAF: BA07: Line Item # C01700: Aircraft Support Equipment & Facilities	131.056	49.952	20.111	-	20.111	35.877	32.908	2.514	-	Continuing	Continuing	
• APAF: BA06: Line Item # 000999: Initial Spares and Repair Parts	7.401	10.218	14.105	-	14.105	14.336	13.099	12.951	13.194	Continuing	Continuing	

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D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA07: Line Item #	0.750	0.774	0.711	-	0.711	-	-	-	-	Continuing	Continuing
000075: <i>Other Production Charges</i>											
Remarks											
E. Acquisition Strategy The C-17 Acquisition Strategy is based on several separate contracts to support the entire scope of the C-17 weapon system. Producibility Enhancement & Performance Improvement (PE/PI) and Globemaster Operational Enhancement (GLOBE) are indefinite delivery, indefinite quantity (IDIQ) contracts used to purchase services and research articles (through delivery orders) to support all RDT&E with our prime contractor. In addition, purchase orders are used to support flight test activities at Edwards AFB. Additional contract vehicles could be utilized as required.											
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity

3600 / 7

R-1 Program Element (Number/Name)

PE 0401130F / C-17 Aircraft (IF)

Project (Number/Name)

672569 / C-17 Aircraft

C-17 RDT&E PROGRAM SCHEDULE

FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ON-GOING SUPPORT FOR FLIGHT TEST, SOFTWARE LAB SUSTAINMENT, AND SYSTEM ENGINEERING/ PROGRAM MANAGEMENT																											
RF																											
ILS ID & FCC																											
IFF Mode 5																											
AIRDROP IMPROVEMENTS																											
COMMUNICATION AND NAVIGATION CAPABILITIES																											
REPLACEMENT CORE INTEGRATED PROCESSOR (RCIP)																											
REPLACEMENT HEADS-UP DISPLAY (HUD)																											
CNS/ATM PHASE I - ADS-B																											
CNS/ATM PHASE II - COMM MODERNIZATION																											
OBIGGS Filter Fire - HW Flx																											
Aero-I Obsolescence																											