Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0401218F: KC-135s

BA 7: Operational Systems Development

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	11.917	10.220	20.453	0.000	20.453	6.211	0.000	0.000	0.000	Continuing	Continuing
674494: KC-135 Aging Aircraft Program	6.134	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.348
675261: KC-135 Upgrades	5.783	10.220	20.453	0.000	20.453	6.211	0.000	0.000	0.000	0.000	47.682

A. Mission Description and Budget Item Justification

KC-135 Aging Aircraft Program (674494).

This program supports projects that keep the KC-135 viable for the future. Projects include the analysis and testing efforts in the area of aging aircraft, to include structural, corrosion, fatigue, and stress corrosion cracking. Additionally, the Functional System Integrity Program (FSIP) proactively examines individual aircraft systems for potential impacts due to aging components. The USAF will utilize these activities to improve KC-135 Programmed Depot Maintenance efficiency and to provide direction for future aircraft efforts to sustain the KC-135 as a viable airframe until the planned fleet retirement completion date of 2040.

In addition, Congress added funds in FY09 to procure equipment that will enable the Air Force to deploy advanced ultrasonic inspection techniques that may dramatically reduce the time required to inspect aircraft for defects. The deployment of the ultrasonic inspection technology will provide significantly improved identification and characterization of defects. This can be accomplished with little risk, as the technology is adapted from ultrasonic array technologies and medical grade imaging techniques that have been successfully implemented in the medical industry for many years.

The original add was for \$1.25M. Approximately \$340K was executed as Operations and Maintenance (O&M) funding. The remaining \$900K was reprogrammed as RDT&E funding and will be used for development of the inspection technology.

KC-135 Upgrades (675261).

Block 45 program - Supports a modification program performing analysis, testing, software development, prototyping, documenting source data, and incorporating a new Digital Flight Director (DFD), Radio Altimeter (RA), Autopilot (AP) and Electronic Engine Instrument Displays (EEID).

This program has associated APAF funding in Program Elements 041218F and 041897F.

These efforts support a fielded weapons system and therefore are assigned to Budget Activity 7, Operational Systems Development.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force **DATE:** February 2010 **R-1 ITEM NOMENCLATURE**

APPROPRIATION/BUDGET ACTIVITY

PE 0401218F: KC-135s

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	10.305	10.297	0.000	0.000	0.000
Current President's Budget	11.917	10.220	20.453	0.000	20.453
Total Adjustments	1.612	-0.077	20.453	0.000	20.453
 Congressional General Reductions 		0.000			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		0.000			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	0.000	0.000			
 SBIR/STTR Transfer 	0.000	0.000			
Other Adjustments	1.612	-0.077	20.453	0.000	20.453

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 674494: KC-135 Aging Aircraft Program

Congressional Add: Congressional EARMARK for KC-135R Blended Winglet Development

Congressional Add: Congressional EARMARK supports the development of Ultrasonic Inspection Equipment Technology

Congressional Add Subtotals for Project: 674494

Congressional Add Totals for all Projects

FY 2010
0.000
0.000
0.000
0.000

Change Summary Explanation

FY2009: Increase due to Congressional Add for Ultrasonic Inspection Technology development and activities associated with Congressionally-directed Blended Winglet Development project.

FY2010: Funds support continuation of the Block 45 EMD activities, including finishing the overall system design, modifying the System Integration Laboratory (SIL), conducting initial system software testing, and beginning production of the prototype aircraft and operational flight trainer hardware and kits.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0401218F: KC-135s	
	tivities including Formal Qualification testing of the system so	

DATE: February 2010

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM N PE 0401218	I OMENCLA BF: <i>KC-135</i> s			PROJECT 674494: KC-135 Aging Aircraft Program				
	COST (\$ in Millions) FY 2009 FY 2010 Base Actual Estimate FY 2011					FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
674494: KC-135 Aging Aircraft 6.134 0.000 0.00					0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.348	

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A. Mission Description and Budget Item Justification

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

This program supports projects that keep the KC-135 viable into the future. Projects include the analysis and testing efforts in the area of aging aircraft, to include structural, corrosion, fatigue, and stress corrosion cracking. Additionally, the Functional System Integrity Program (FSIP) proactively examines individual aircraft systems for potential impacts due to aging components. The USAF will utilize these activities to improve KC-135 Programmed Depot Maintenance efficiency and to provide direction for future aircraft efforts to sustain the KC-135 as a viable airframe until the planned fleet retirement completion date of 2040.

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NOTE: The FY2009 budget contains a \$3.187M Congressional add for KC-135R blended winglet development and a \$900K Congressional add for Ultrasonic Inspection Test Equipment technology.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Aging Aircraft efforts	2.047	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: IN FY2009: Funds support the Corrosion & Fatigue testing, Functional System Integrity Program (FSIP), implementation of the Magnetoresistive Sensor Responses with Mobil Augmented Ultrasonic Scanner (MAUS) and the final support of Teardown Study planning effort for the KC-135. FY 2010 Plans:					
IN FY2010: N/A					

Program

Quantity of RDT&E Articles

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: Feb	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0401218F: KC-135s		PROJECT 674494: <i>K</i> (C-135 Aging	Aircraft Prog	ram
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: IN FY2011: N/A						
FY 2011 OCO Plans: IN FY2011 OCO: N/A						
Accor	mplishments/Planned Programs Subtotals	2.047	0.000	0.000	0.000	0.000
		FY 2009	FY 2010]		
Congressional Add: Congressional EARMARK for KC-135R Blend FY 2009 Accomplishments: IN FY2009: Congressional EARMARK for KC-135R Blended V	·	3.187	0.000			
FY 2010 Plans: IN FY2010: N/A						
Congressional Add: Congressional EARMARK supports the development Technology	opment of Ultrasonic Inspection	0.900	0.000			
FY 2009 Accomplishments: IN FY2009: Funds support Ultrasonic Inspection Equipment To through FY10	echnology for which funds execute					
FY 2010 Plans: IN FY2010: N/A						

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

PROJECT R-1 ITEM NOMENCLATURE 3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

PE 0401218F: KC-135s

674494: KC-135 Aging Aircraft Program

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010
Congressional Adds Subtotals	4.087	0.000

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
PE Not Provided (3556): None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

D. Acquisition Strategy

The acquisition strategy consists primarily of separate task orders (with separate statements of work) ranging from fixed price to cost plus contracts. These task orders address a myriad of aging aircraft activities against existing contract vehicles, such as the SPO-managed KC-135 Fleet Support Contract and Design Engineering Program contracts managed through the Air Logistics Centers.

E. 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development

PE 0401218F: KC-135s

674494: KC-135 Aging Aircraft Program

Support (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Aging Aircraft Studies	Various	Air Force Academy Colorado Springs, CO	1.212	0.000		0.000		0.000		0.000	0.000	1.212	0.000
		Subtotal	1.212	0.000		0.000		0.000		0.000	0.000	1.212	0.000

Remarks

Test and Evaluation (\$ in Millions)

			FY 2010			FY 2011 Base		FY 2011 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Corrosion & Fatigue Testing/Functional Systems Integrity Program	Various	Boeing Wichita KS	2.881	0.000		0.000		0.000		0.000	0.000	2.881	0.000
		Subtotal	2.881	0.000		0.000		0.000		0.000	0.000	2.881	0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0401218F: KC-135s

PROJECT

674494: KC-135 Aging Aircraft Program

Management Services (\$ in Millions)

				FY 20	010	FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
(includes the FY09 congressional add for winglets)	TBD/TBD	TBD TBD	5.847	0.000		0.000		0.000		0.000	0.000	5.847	0.000
		Subtotal	5.847	0.000		0.000		0.000		0.000	0.000	5.847	0.000

Remarks

(includes the FY09 congressional add for winglets)

	Total Prior Years Cost	FY 2010		2011 ase	FY :	2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	9.940	0.000	0.000		0.000		0.000	0.000	9.940	0.000

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

PROJECT **R-1 ITEM NOMENCLATURE** 3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

PE 0401218F: KC-135s	674494: KC-135 Aging Aircraft Program

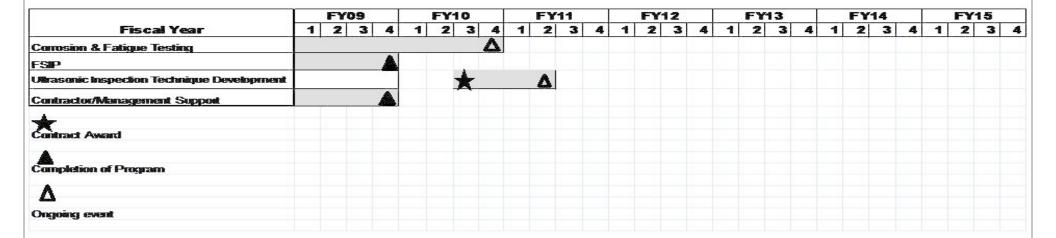


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0401218F: KC-135s

PROJECT

674494: KC-135 Aging Aircraft Program

Schedule Details

	St	art	Er	nd
Event	Quarter	Year	Quarter	Year
Corrosion & Fatigue Testing Part 1	1	2009	4	2009
Corrosion & Fatigue Testing Part 2	1	2010	4	2010
FSIP	1	2009	4	2009
Ultrasonic Inspection Technique Development Part 1	3	2010	4	2010
Ultrasonic Inspection Technique Development Part 2	1	2011	2	2011
Contractor/Management Support	1	2009	4	2009

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0401218F: KC-135s 675261: KC-135 Upgrades

BA 7: Operational Systems Development

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675261: KC-135 Upgrades	5.783	10.220	20.453	0.000	20.453	6.211	0.000	0.000	0.000	0.000	47.682
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The C/KC-135 CNS/ATM (Block 45) modification upgrades the Digital Flight Director (DFD), Radar Altimeter (RA), Autopilot (AP) and the Electronic Engine Instrument Display (EEID) and is needed to extend the KC-135 as a viable weapon system through Fiscal Year (FY) 2040. The Block 45 systems mitigates capability gaps identified in the Initial Capabilities Document (ICD) for Aerial Refueling (AR) and the Air Force (AF) Integrated Capability Review and Risk Assessment (I-CRRA), address anticipated airspace restrictions within the global CNS/ATM system and improves overall KC-135 shortcomings in reliability, maintainability and supportability. C/KC-135 CNS/ATM (Block 45) will upgrade 417 KC-135 R/T aircraft.

These efforts support a fielded weapons system and therefore are assigned to Budget Activity 7, Operational Systems Development.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Non-Recurring Engineering and test efforts/tasks for all Block 45 sub programs	5.783	10.220	20.453	0.000	20.453
FY 2009 Accomplishments: In FY2009: Initiate engineering development of system requirements for hardware, software, maintainability, reliability, testing, safety and training to include System Functional Review (SFR) and Preliminary Design Review (PDR). Tailor Communication Navigation Surveillance/ Air Traffic Management (CNS/ATM) generic matrices to support operational certification. Develop requirements verification matrix, program execution plans, integrated logistics support approach, and subsystems design requirements traceability.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE PROJECT 3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

PE 0401218F: KC-135s 675261: KC-135 Upgrades

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY2010: Finish system design to include draft engineering technical data, verify technical problems and design anomalies that have been resolved without comprising system performance, reliability and safety to be verified during Critical Design Review (CDR). Modify the System Integration Laboratory (SIL) and conduct initial system software dry-run testing. Begin production of prototype aircraft and					
operational flight trainer (OFT) hardware and kits. Start developing the Modification Airworthiness Certification Criteria (MACC), Technical Orders (TO) and training materials for both maintenance and aircrew training. Continue integration and verification of software requirements and processes to achieve desired design.					
In FY2011: Complete Formal Qualification Test of system software on SIL producing red label software to support Developmental Testing followed by Black Label software to support Low Rate Initial Production and Operational Testing. Finish aircraft prototype kit development and install kits on two test aircraft. Initiate formal ground testing at contractors facilities followed by flight testing at Edwards AFB. Complete prototype development of operational flight trainer (OFT). Finalize TOs, engineering technical data, and training development. Conduct aircrew and maintenance type 1 training for both developmental and operational test crews. Complete the MACC, CNS/ATM compliance report and all reports and data required to support operational and airworthiness certification.					
FY 2011 OCO Plans: In FY2011 OCO: N/A					
Accomplishments/Planned Programs Subtotals	5.783	10.220	20.453	0.000	20.453

Exhibit R-2A, **RDT&E Project Justification:** PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force

PE 0401218F: *KC-135*s 675261: *KC-135 Upgrades*

BA 7: Operational Systems Development

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

			FY 2011	FY 2011	<u>FY 2011</u>					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE 0401218F: <i>C/KC-135</i>	0.000	0.000	8.394	0.000	8.394	31.118	42.701	48.568	52.097	322.147	0.000

D. Acquisition Strategy

Block 45 - The strategy is to have a contracted integrator accomplish the task of performing analysis, testing, software development, prototypes, documentation of source data, and integrating a new Digital Flight Director (DFD), digital Autopilot (AP), digital Radar Altimeter (RA), and Electronic Engine Instrument Display (EEID). The contractor will be responsible for acquiring the necessary information and personnel to integrate each item stated above into the KC-135 legacy systems. The contractor will be responsible for developing and subcontracting the components.

E. 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force

PE 0401218F: KC-135s

675261: KC-135 Upgrades

BA 7: Operational Systems Development

Product Development (\$ in Millions)

,													
				FY 20	010	FY 2 Ba		FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 45 - NRE, engineering, development, and prototype	SS/FP	Rockwell Collins Cedar Rapids, IA	7.898	8.488		16.000		0.000		16.000	4.600	36.986	Continuing
		Subtotal	7.898	8.488		16.000		0.000		16.000	4.600	36.986	

Remarks

Support (\$ in Millions)

'' ''	,					FY 2011		FY 2011		FY 2011			
				FY 2010		Base		oco		Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Support	Various/ Various	Various Various	2.736	0.431		0.450		0.000		0.450	0.000	3.617	0.000
		Subtotal	2.736	0.431		0.450		0.000		0.450	0.000	3.617	0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

PROJECT

3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development

PE 0401218F: KC-135s

R-1 ITEM NOMENCLATURE

675261: KC-135 Upgrades

Test and Evaluation (\$ in Millions)

				FY 2	010	FY 2 Ba	-	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 45 developmental ground and flight test	PO	418 FTS Edwards AFB, CA	0.356	0.660		3.100		0.000		3.100	0.703	4.819	0.000
		Subtotal	0.356	0.660		3.100		0.000		3.100	0.703	4.819	0.000

Remarks

Management Services (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TBD:TBD	TBD/TBD	TBD TBD	0.175	0.641		0.903		0.000		0.903	0.908	2.627	0.000
		Subtotal	0.175	0.641		0.903		0.000		0.903	0.908	2.627	0.000

Remarks

					,					
	Total Prior Years Cost		2010		2011 ise	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost To	tals 11.165	10.220		20.453		0.000	20.453	6.211	48.049	

Remarks

Total Prior Years Cost may include only FY 2009 data.

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DATE: February 2010 Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** PE 0401218F: KC-135s 3600: Research, Development, Test & Evaluation, Air Force 675261: KC-135 Upgrades BA 7: Operational Systems Development **FOUO Program Schedule** Dominant Air Power: Design For Tomorrow... Deliver Today FY FY FY FY FY FY FY 09 10 11 12 13 15 14 PRR ioc P-PDR A P-CDR A MSB Major **
FRP Milesto nes RFP =Completed SFR CDR DT&E Contract EMD & Test =To Be Accomplished Award PDR 2 Prototype =Sole Source Install = Competition Procure Kits LRIP Kits/ Installs Install Kits PCA / Simulators Kit Procurement Installation

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R-1 Line Item #225 Page 16 of 17

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0401218F: KC-135s

PROJECT

675261: KC-135 Upgrades

Schedule Details

Event	St	Start		End	
	Quarter	Year	Quarter	Year	
Acquisition Strategy Panel (ASP)	2	2009	2	2009	
Engineering Manufacturing Development (EMD) RFP Release	4	2009	4	2009	
Milestone B (MS B)	4	2009	4	2009	
EMD Contract Award	4	2009	4	2009	
EMD Phase I	4	2009	4	2009	
EMD Phase II	1	2010	4	2010	
EMD Phase III	1	2011	4	2011	