

UNCLASSIFIED

PE NUMBER: 0401218F
PE TITLE: KC-135s

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006																																					
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0401218F KC-135s																																								
Cost (\$ in Millions)	FY 2005 Actual	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	1.931	1.477	1.126	1.155	1.177	0.000	0.000	Continuing	TBD																																				
4494 KC-135 Aging Aircraft Program	1.931	1.477	1.126	1.155	1.177	0.000	0.000	Continuing	TBD																																				
<p>(U) <u>A. Mission Description and Budget Item Justification</u></p> <p>This program supports projects that will help to keep the KC-135 viable in to 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.</p> <p>Boom Operator Weapon System Trainers (BOWST) - These funds will be used to develop and field two high-fidelity devices which simulate the environment in a KC-135 boom pod and allow realistic training of aerial refueling procedures across the spectrum of operational situations. The devices will be placed at the KC-135 Combat Crew Training School, and will replace the current Boom Operator Part Task Trainers.</p> <p>These efforts are low technical risk supporting a fielded weapon system and, therefore, is assigned to Budget Activity 7, Operational Systems Development.</p> <p>(U) <u>B. Program Change Summary (\$ in Millions)</u></p> <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">1.079</td> <td style="text-align: center;">1.489</td> <td style="text-align: center;">1.102</td> </tr> <tr> <td>(U) Current PBR/President's Budget</td> <td style="text-align: center;">1.931</td> <td style="text-align: center;">1.477</td> <td style="text-align: center;">1.126</td> </tr> <tr> <td>(U) Total Adjustments</td> <td style="text-align: center;">0.852</td> <td style="text-align: center;">-0.012</td> <td></td> </tr> <tr> <td>(U) Congressional Program Reductions</td> <td></td> <td style="text-align: center;">-0.012</td> <td></td> </tr> <tr> <td> Congressional Rescissions</td> <td style="text-align: center;">-0.010</td> <td></td> <td></td> </tr> <tr> <td> Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Reprogrammings</td> <td style="text-align: center;">0.885</td> <td></td> <td></td> </tr> <tr> <td> SBIR/STTR Transfer</td> <td style="text-align: center;">-0.023</td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p>FY05 funding includes money for BOWST</p>											<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	(U) Previous President's Budget	1.079	1.489	1.102	(U) Current PBR/President's Budget	1.931	1.477	1.126	(U) Total Adjustments	0.852	-0.012		(U) Congressional Program Reductions		-0.012		Congressional Rescissions	-0.010			Congressional Increases				Reprogrammings	0.885			SBIR/STTR Transfer	-0.023		
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Exhibit R-2a, RDT&E Project Justification

DATE

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BUDGET ACTIVITY

07 Operational System Development

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4494 KC-135 Aging Aircraft Program

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4494 KC-135 Aging Aircraft Program	1.931	1.477	1.126	1.155	1.177	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

This program supports projects that will help to keep the KC-135 viable in to 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.

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These efforts are low technical risk supporting a fielded weapon system and, therefore, is assigned to Budget Activity 7, Operational Systems Development.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Corrosion/crack growth rate and fatigue determination and testing	0.507	0.373	0.125
(U) Functional Systems Integrity Program (FSIP)	0.503	0.750	0.698
(U) Mission support/contractor support	0.236	0.354	0.303
(U) Boom Operator Weapon System Trainer	0.685	0.000	0.000
(U) Total Cost	1.931	1.477	1.126

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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>Complete</u>	
(U) Other APPN									
PE#0401218F/KC-135 Squadrons, Aircraft Procurement, AF, BA-5, KC-135 Mods, BOWST, BP-11									

(U) **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.

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> Boom Operator Weapon System Trainer	MIPR	Air Education & Training Command		0.685	Mar-05					Continuing	TBD	
Subtotal Product Development			0.000	0.685		0.000		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u> Aging Aircraft Studies	C/FP	ARINC, Oklahoma City and other support ctrs.		0.000		0.325	Jan-06			Continuing	TBD	
Subtotal Support			0.000	0.000		0.325		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u> Corrosion & Fatigue Testing/Functional Systems Integrity Program	Fleet Support, T&M/FFP	Boeing, Wichita KS		1.010	Jan-05	1.000	Nov-05	1.050	Dec-06	Continuing	TBD	
Subtotal Test & Evaluation			0.000	1.010		1.000		1.050		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u> Subtotal Management			0.000	0.236		0.152		0.076		Continuing	TBD	
Remarks:								0.076		Continuing	TBD	0.000
(U) Total Cost			0.000	1.931		1.477		1.126		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

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KC-135 R-4 Schedule Profile

Fiscal Year	FY05				FY06				FY07				FY08				FY09				FY10			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Corrosion & Fatigue Testing																								
FSIP (see note 1)																								
Boom Operator Weapon System Trainer																								
Note 1: FSIP will continue to examine additional aircraft systems as required while monitoring those systems that have previously been examined.																								



Major Event or Milestone



Planned Ongoing Activity



Ongoing Activity that is Complete



Completed Event



Planned Task(s)

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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Corrosion & Fatigue Testing

1-4Q

1-4Q

1-4Q

(U) FSIP

1-4Q

1-4Q

1-4Q

(U) Boom Operator Weapon System Trainer

2-4Q

1-2Q