

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305207F Manned Reconnaissance System
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	24.333	17.811	12.846	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4754 COBRA BALL	24.333	17.811	12.846	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The RC-135 Operational Systems Development and enhancement activities project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the integration and modification of the RC-135 programs and their specialized mission systems - both air and ground. Extensive utilization of commercial-off the-shelf (COTS) based solutions allows rapid fielding of needed capabilities through continuous technology refresh cycles and vanishing-vendor logistics mitigation efforts.

The results of these efforts provide for preliminary assessments of technical feasibility, operability, or military utility as well as specific engineering implementations for integration into the various systems baseline configurations.

These activities are managed by the Air Force through the 645th Aeronautical System Group (645th AESG, a.k.a. BIG SAFARI Program Office), 303rd Reconnaissance System Wing, Aeronautical Systems Center, Air Force Materiel Command, Wright Patterson AFB, OH. BIG SAFARI manages engineering, ground and support system modifications, integration, flight testing, product assurance, acceptance testing, logistics, and training activities. Aircraft, aircraft sensor systems, and associated ground support system modifications planned for FY09-FY15 include support for three distinct RC-135V/W RIVET JOINT configurations [Baselines 8, 9 & 10], two distinct RC-135U COMBAT SENT configurations [Baselines 3 & 4] and three distinct RC-135S COBRA BALL configurations [Baselines 2, 3 & 4]. SEE CLASSIFIED Congressional budget exhibits.

The world-wide challenge of keeping pace against technologically agile targets used by both nation and non-nation-state adversaries and the rapid evolution of COTS technologies demands a responsive and adaptive acquisition strategy for fielding 'baseline capabilities' that are logistically supportable at all locations. The BIG SAFARI program office uses an incremental 'baseline' strategy to mitigate risk, find affordable solutions and field needed capabilities. Obsolescence and diminishing manufacturing sources (DMS) are addressed with each baseline upgrade as well as annually as part of the sustainment responsibilities. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program effort is categorized as RDT&E budget activity 7, Operational Systems Development, because it involves Air Force R&D for technologies necessary to field essential operational capabilities.

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0305207F Manned Reconnaissance System

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	21.387	12.819	13.130
(U) Current PBR/President's Budget	24.333	17.811	12.846
(U) Total Adjustments	2.946	4.992	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	2.946	4.992	
SBIR/STTR Transfer			

(U) **Significant Program Changes:**

FY2008 and FY2009 increases reflect reprogramming funding for research and development contracts

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0305207F Manned Reconnaissance System			PROJECT NUMBER AND TITLE 4754 COBRA BALL		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4754 COBRA BALL	24.333	17.811	12.846	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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The world-wide challenge of keeping pace against technologically agile targets used by both nation and non-nation-state adversaries and the rapid evolution of COTS technologies demands a responsive and adaptive acquisition strategy for fielding 'baseline capabilities' that are logistically supportable at all locations. The BIG SAFARI program office uses an incremental 'baseline' strategy to mitigate risk, find affordable solutions and field needed capabilities. Obsolescence and diminishing manufacturing sources (DMS) are addressed with each baseline upgrade as well as annually as part of the sustainment responsibilities. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program effort is categorized as RDT&E budget activity 7, Operational Systems Development, because it involves Air Force R&D for technologies necessary to field essential operational capabilities.

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

	FY 2008	FY 2009	FY 2010
(U) Continues Non-Recurring Engineering (NRE) for the development and installation of improved mission capabilities - see classified submission.	12.503	12.819	12.846
(U) FY08 Congressional Add: COMBAT SENT Tactical ELINT System modernization study (two year effort)	4.000		
(U) FY08 Congressional Add: RIVET JOINT Network Interface Growth	2.400		
(U) FY08 Congressional Add: COBRA BALL Sensor Gimbal Stabilization	2.500		

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Project 4754

Exhibit R-2a (PE 0305207F)

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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305207F Manned Reconnaissance System	PROJECT NUMBER AND TITLE 4754 COBRA BALL
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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) FY08 Reprogramming to support Common Digital IFF Control Panel Development	2.930		
(U) FY09 Reprogramming to support Research and Development Contracts		4.992	
(U) Total Cost	24.333	17.811	12.846

Activities also include studies and analysis to support both current program planning and execution and future program planning.

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>										
	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) PE 0305207F, APAF	165.551	142.694	156.539						Continuing	TBD
(U) PE 0305207F, OPAF	22.380	22.857	23.468						Continuing	TBD
(U) PE 0305207F, O&M	541.225	293.310	248.917						Continuing	TBD

(U) **D. Acquisition Strategy**
 The RC-135 RIVET JOINT, COBRA BALL, and COMBAT SENT aircraft are maintained and baseline / incremental upgrades and quick reaction capabilities (QRC) developments are acquired through the 645th Aeronautical Systems Group (BIG SAFARI Program Office) in accordance with the Program Management Directive (PMD) for BIG SAFARI Programs, and the BIG SAFARI Class Justification and Approval (J&A) document for acquisition of supplies and services using other than full and open competition. The supplies and services procured by 645th AESG under their J&A to satisfy National Security (FAR 6.302-6) or Unusual and Compelling Urgency (FAR 6.302-2) requirements include the full range of system life cycle management program (LCMP) support from developmental engineering to system retirement. Due to the rapidly changing threat environment of the long Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet the requirements.

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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 Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
L-3 Communications	CPFF/CPIF /FFP	L-3 Com, Greenville TX	37.015	24.333	Dec-07	17.811	Dec-08	12.846	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			37.015	24.333		17.811		12.846		Continuing	TBD	TBD
Remarks:	All activity is based around the Programmed Depot Maintenance (PDM) airframe schedule which includes multiple contracts and organizations with overlapping and continuous periods of performance. Due to the rapidly changing threat environment of the long Global War on Terrorism, the acquisition program manager has the authority to redirect funding as necessary to meet the requirements.											
(U) Total Cost			37.015	24.333		17.811		12.846		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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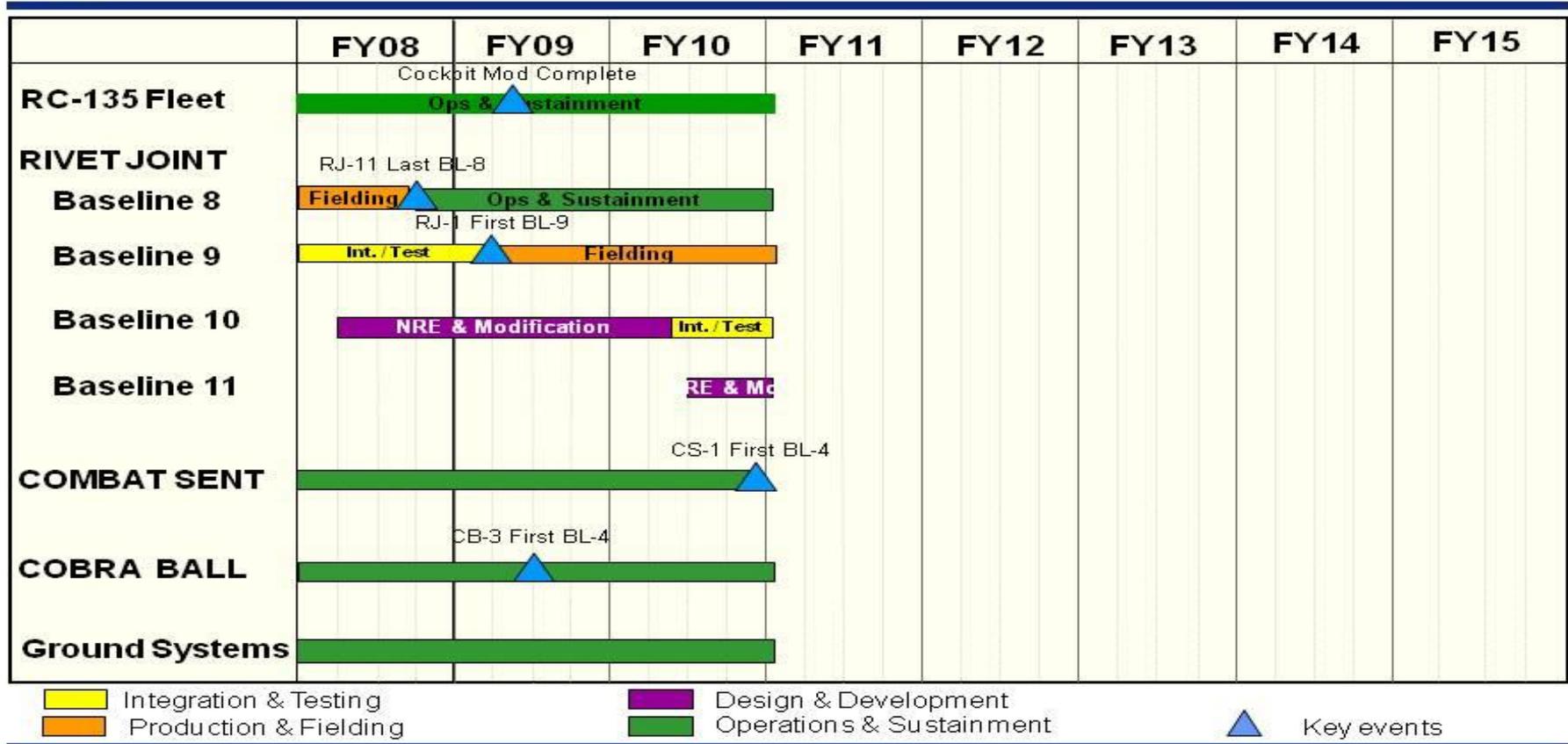
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PE NUMBER AND TITLE
0305207F Manned Reconnaissance System

PROJECT NUMBER AND TITLE
4754 COBRA BALL



Manned Reconnaissance (RC-135) Schedule



FY10 PB

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Exhibit R-4a, RDT&E Schedule Detail		DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305207F Manned Reconnaissance System	PROJECT NUMBER AND TITLE 4754 COBRA BALL
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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) * Classified Mission Systems Development	1-4Q	1-4Q	1-4Q
* See Classified Budget Submission for further breakout.			

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