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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				PE 0305207F: <i>Manned Reconnaissance System</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	15.259	13.049	13.316	-	13.316	13.491	13.768	14.150	14.351	Continuing	Continuing
674754: <i>RC-135 Systems</i>	15.259	13.049	13.316	-	13.316	13.491	13.768	14.150	14.351	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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 diminishing manufacturing sources (DMS)/vanishing vendor items (VVI) 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 (645 AESG, a.k.a. BIG SAFARI Systems Program Office or SPO), Aeronautical Systems Center, Air Force Materiel Command, Wright Patterson AFB, OH. BIG SAFARI manages engineering, ground and support systems modifications, integration, flight testing, product assurance, acceptance testing, logistics, and training activities.

Aircraft, aircraft sensor systems, and associated ground support system engineering planned for FY13 include support for two distinct RC-135V/W RIVET JOINT configurations [Baselines 11 & 12], two distinct RC-135U COMBAT SENT configurations [Baselines 4 & 5] and two distinct RC-135S COBRA BALL configurations [Baselines 4 & 5]. 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. BIG SAFARI uses an incremental "baseline" strategy to mitigate risk, find affordable solutions and field needed capabilities on the aircraft and ground support and training systems. Obsolescence and DMS/VVI 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 is in Budget Activity 7, Operational Systems 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 fielding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget		15.337	13.049	13.316	-	13.316
Current President's Budget		15.259	13.049	13.316	-	13.316
Total Adjustments		-0.078	-	-	-	-
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-0.078	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Other Adjustments		-	-	-	-	-
Change Summary Explanation						
FY 2011 adjustment of \$0.078M due to Congressional mark up for Economic Assumptions.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013
Title: Baseline Configuration Development				15.259	13.049	13.316
Description: Non-recurring engineering (NRE) for Baseline system developments and enhancements to improve mission capabilities						
FY 2011 Accomplishments: Supported design studies, engineering analysis, NRE and other efforts associated with the integration and modification of the RC-135 programs (RJ BL-10, CS BL-4, and CB BL-4) and their specialized mission systems for the collection of both air and ground signals.						
FY 2012 Plans: Supports design studies, engineering analysis, NRE and other efforts associated with the integration and modification of the RC-135 programs (RJ BL-11, CS BL-5, and CB BL-5) and their specialized mission systems for the collection of both air and ground signals						
FY 2013 Plans: Continue to support design studies, engineering analysis, NRE and other efforts associated with the integration and modification of the RC-135 programs (RJ BL-12, CS BL-5, and CB BL-5) and their specialized mission systems for the collection of both air and ground signals						
Accomplishments/Planned Programs Subtotals				15.259	13.049	13.316

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305207F: Manned Reconnaissance System
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D. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF, PE 0305207F, Manned Recon...: 3010 BP11 & BP16	148.723	201.596	209.361	0.000	209.361	220.324	225.720	229.992	233.776	Continuing	Continuing
• OPAF, PE 0305207F, Manned Recon...: 3080	23.167	23.341	24.176	0.000	24.176	24.528	25.150	25.700	26.046	Continuing	Continuing
• OMAF, PE 0305207F, Manned Recon...: 3400	534.763	460.224	311.939	0.000	311.939	349.964	354.094	398.467	405.038	Continuing	Continuing

E. 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 BIG SAFARI Program Management Directive (PMD), and the BIG SAFARI Class Justification and Approval (J&A) document for acquisition of supplies and services using other than full and open competition criteria. The supplies and services procured by 645 AESG under their J&A to satisfy National Security (FAR 6.302-6) requirements are supported by the BIG SAFARI Life Cycle Management Plan (LCMP) across the full spectrum of system life cycle management from developmental engineering to system retirement ("cradle to grave" support). Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements.

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 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305207F: <i>Manned Reconnaissance System</i>	PROJECT 674754: <i>RC-135 Systems</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305207F: <i>Manned Reconnaissance System</i>	PROJECT 674754: <i>RC-135 Systems</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Integration and Test RIVET JOINT Baseline 10	1	2011	1	2012
Integration and Test RJMT Baseline 10	1	2012	2	2012
Development, Integration and Test RIVET JOINT Baseline 11	1	2011	3	2014
Integration and Test RJMT Baseline 11	3	2014	4	2014
Development, integration and test of RIVET JOINT Baseline 12	1	2013	3	2017
Integration and Test RJMT Baseline 12	1	2017	2	2017
Integration and test of COMBAT SENT Baseline 4	1	2011	1	2011
Development, integration and test of COMBAT SENT Baseline 5	4	2011	2	2016
Integration and test of COBRA BALL Baseline 4	1	2011	1	2012
Development, integration and test of COBRA BALL Baseline 5	4	2011	1	2016