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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Air Force **Date:** March 2014

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0303150F / <i>Global Command and Control System</i>
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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	-	2.082	-	-	-	-	-	-	-	-	Continuing	Continuing
674667: <i>Global Command and Control System - AF</i>	-	2.082	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

In FY 2013, Program Element 0303150F, Global Command and Control Systems - Air Force (Infrastructure) (GCCS-AF(I)) was completed.

**A. Mission Description and Budget Item Justification**

The Global Command and Control System (GCCS) is the Joint Command and Control (C2) System of Record and the designated C2 migration system for the DoD. It is an integrated Command, Control, Communications, Computer, and Intelligence (C4I) system capable of supporting all echelons of the US military command structure. GCCS solves C4I interoperability problems between Service components by establishing a Common Core Operating Environment supporting net-centric objectives. The GCCS-Air Force program provides C2, intelligence, surveillance, reconnaissance (ISR), Cyber, and operational information to the Commander Air Force Forces (COMAFFOR) for planning and execution, air space deconfliction, targeting, weaponeering, and many other applications supporting air operational command and control, and fully supports the Aerospace Expeditionary Force (AEF) concept.

The Air Force is responsible for integration of Air Force unique mission applications with the Common Core Operating Environment. Integration efforts are directed towards future aerospace C2 concepts supporting requirements for the Air Operations Center(AOC), including ISR, and intended to automate operational systems with an objective of providing the right people with the right information at the right time while reducing the overall footprint of the system. As they migrate to the GCCS Joint (GCCS-J) core environment, GCCS-AF will integrate applications into the Windows VersionX(WINx) environment satisfying warfighter requirements for the Common Operational Picture (COP), Joint Warning and Reporting Network (JWARN), Joint Targeting Toolbox (JTT), Logistics Feasibility Analysis Capability (LOGFAC), Deliberate Crisis Action Planning and Execution Segment (DCAPES) capabilities, and other information assurance mechanisms.

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 funding in the current or subsequent fiscal year.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	4.316	-	-	-	-
Current President's Budget	2.082	-	-	-	-
Total Adjustments	-2.234	-	-	-	-
• Congressional General Reductions	-0.003	-			
• Congressional Directed Reductions	-2.000	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.068	-			
• Other Adjustments	-0.163	-	-	-	-

**Change Summary Explanation**

Reduction in FY13 due to sequestration.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> GCCS-AF Synchronization, Integration, Test, and Planning	2.082	-	-
<b>Description:</b> This effort consisted of: synchronization, integration and testing of current/upgraded capabilities; operational baseline problem analysis and technical solution implementation; and systems engineering for infrastructure migration to the next generation joint C2 architecture.			
<b>FY 2013 Accomplishments:</b> Continued to provide systems engineering support to GCCS synchronization and migration objectives with emerging new joint C2 ( e.g. Adaptive Planning and Execution(APEX), Joint Planning and Execution Services(JPES)). Conducted GCCS 4.2.1 / joint C2 operational problem analysis and technical solutions implementation following joint C2 Objective Architecture. Performed analysis for implementation strategy for transition of baseline systems to new x86 hardware architecture implementations, authentication/ authorizations, net-centric core services, and cyber protection mechanisms. FY13 was the final year of development efforts for the program.			
<b>FY 2014 Plans:</b> No FY 2014 funding.			
<b>FY 2015 Plans:</b> No FY 2015 funding.			
<b>Accomplishments/Planned Programs Subtotals</b>	2.082	-	-

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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>
• OPAF: BA07: Line Item # 834040: <i>AF Global Command &amp; Control Sys</i>	14.605	53.559	9.098	-	9.098	12.392	14.821	15.027	14.248	Continuing	Continuing

**Remarks**  
FY14 Contains \$40,000,000 for equipment for Air National Guard MQ 1/9 Remote Split Operations. Funding to be moved to PE 0503218F.

**E. Acquisition Strategy**

GCCS-AF was developed and fielded using a spiral acquisition approach, synchronized with Common Operating Environment (COE) and compliant with the GCCS-Joint (GCCS-J) baseline. All deployment of GCCS-AF capabilities were synchronized with the GCCS-J program fielding schedule, which was led by Defense Information Systems Agency (DISA). The GCCS-AF program was actively supporting DOD planning for transition of functionality to DOD's emerging next generation joint C2 enabler.

**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 0303150F / *Global Command and Control System*

**Project (Number/Name)**  
674667 / *Global Command and Control System - AF*

YEAR	FY13				FY14				FY15				FY16				FY17				FY18				FY19			
	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
<b>GCCS-J GR</b> v4.2.0.9 v4.3	[Orange]				[Yellow]				[Orange]																			
<b>GCCS-AF SSE</b>  SSE 4.2.1 (DCAPES LC1) SSE 4.2.2 (LOGFAC 3.0) SSE 4.2.3 (DCAPES LC2) DCAPES Increment 2B/SW Upgrades	[Yellow]				[Orange]				[Yellow]				[Orange]				[Yellow]				[Orange]							
<b>GCCS-AF Client</b> v1.0 v1.1	[Yellow]				[Orange]				[Yellow]				[Orange]															
<b>KEY</b>	 - Integration/Test  - Production Fielding																											