

## UNCLASSIFIED

PE NUMBER: 0303150F

PE TITLE: WWMCCS/GLOBAL COMMAND &amp; CONTROL SYSTEM

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2006

## BUDGET ACTIVITY

## 07 Operational System Development

## PE NUMBER AND TITLE

0303150F WWMCCS/GLOBAL COMMAND &amp; CONTROL SYSTEM

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	5.096	13.306	3.348	3.361	3.201	3.185	3.125	Continuing	TBD
4667 Global Command and Control System - AF	5.096	13.306	3.348	3.361	3.201	3.185	3.125	Continuing	TBD

(U) **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 Operating Environment (COE), and has an end objective to eliminate stovepiped systems. The Global Command and Control System-Air Force program provides C2, intelligence, surveillance, reconnaissance and operational information for the Joint Force Air Component Commander (JFACC) and the Air and Space Operations Center-Weapon System (AOC-WS) 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 developing four of the modules that will make up the COE, and integration of Air Force unique applications with the COE. Integration efforts will be directed towards future aerospace C2 concepts supporting requirements for the AOC, including intelligence, surveillance, and reconnaissance and intended to automate operational systems with an end objective of providing the right people with the right information at the right time while reducing the overall foot print of the system. As they become available, GCCS-AF will integrate applications into the WINx environment satisfying warfighter requirements for the Common Operational Picture (COP) and Single Integrated Air Picture (SIAP), Joint Defensive Planner (JDP), Joint Targeting Toolbox (JTT), Air Tasking Order (ATO) Reader, and Deliberate Crisis Action Planning and Execution Segment (DCAPES) capabilities.

This effort is Budget Activity 7, Operational System Development, because the program develops and implements software upgrades for integrating existing operational systems and computer networks that will eventually evolve to the Joint Command and Control (JC2) system riding on the Global Information Grid.

Note: The Budget Activity shown at the top of this document (644667) is incorrect. The proper Budget Activity is 674667 and will be corrected in a later update to this exhibit.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	3.611	3.541	3.649
(U) Current PBR/President's Budget	5.096	13.306	3.348
(U) Total Adjustments	1.485	9.765	
(U) Congressional Program Reductions	-0.190	-0.042	
Congressional Rescissions		-0.193	
Congressional Increases	1.800	10.000	
Reprogrammings			
SBIR/STTR Transfer	-0.125		

(U) **Significant Program Changes:**  
FY05 \$1.8M Congressional add for Applied Research in Computing Enterprise Services (ARCES).  
FY06 \$3M Congressional add for ARCES and \$7M Congressional add for Command and Control Service Level Management.

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## Exhibit R-2a, RDT&amp;E Project Justification

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## BUDGET ACTIVITY

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COMMAND & CONTROL SYSTEM

## PROJECT NUMBER AND TITLE

4667 Global Command and Control  
System - AF

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
4667 Global Command and Control System - AF	5.096	13.306	3.348	3.361	3.201	3.185	3.125	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

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This effort is Budget Activity 7, Operational System Development, because the program develops and implements software upgrades for integrating existing operational systems and computer networks that will eventually evolve to the Joint Command and Control (JC2) system riding on the Global Information Grid.

Note: The Budget Activity shown at the top of this document (644667) is incorrect. The proper Budget Activity is 674667 and will be corrected in a later update to this exhibit.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue Integration of Air Force Capabilities into GCCS (COP, SIAP, DCAPES, ATO Reader, Joint Defensive Planner (JDP), Joint Targeting Toolbox (JTT)), Prototype Software Development, GCCS Migration Support	1.596	1.506	1.448
(U) Congressional add for Applied Research in Computing Enterprise Services (ARCES)	1.800	3.000	0.000
(U) Congressional add for Command and Control Service Level Management	0.000	7.000	0.000
(U) GCCS-AF (I) Systems Engineering	1.700	1.800	1.900
(U) Total Cost	5.096	13.306	3.348

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## Exhibit R-2a, RDT&amp;E Project Justification

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System - AF(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 Procurement, AF (3080)	16.155	11.686	13.877	13.782	13.635	13.739	13.722	Continuing	TBD

(U) **D. Acquisition Strategy**

Electronic Systems Center (ESC) Hanscom AFB, MA manages the integration and infrastructure of the Air Force Global Command and Control Systems developed/fielded using spiral acquisition approaches with Common Operating Environment (COE) and GCCS-Joint compliance performed by ESC to support Air Force contribution to the Joint Services and to support the separate Air Force mission applications that operate in the COE.

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## Exhibit R-3, RDT&amp;E Project Cost Analysis

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COMMAND & CONTROL SYSTEM

PROJECT NUMBER AND TITLE

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System - AF

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &amp;</u> <u>Type</u>	<u>Performing</u> <u>Activity &amp;</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> WINxB	SS/FFP	Northrop Gruman ITS/Herndon, VA	2.200	0.711	Oct-04	0.800	Oct-05	0.810	Oct-06	Continuing	TBD	TBD
Test & Accreditation	MIPR	Multiple	0.833	0.377	Oct-04	0.376	Oct-05	0.363	Oct-06	Continuing	TBD	TBD
Subtotal Product Development			3.033	1.088		1.176		1.173		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u> Information Technology Services Program (ITSP)	SS/FFP	Multiple	2.409	0.200	Oct-04	0.200	Oct-05	0.225	Oct-06	Continuing	TBD	TBD
FFRDC	SS/FFP	Mitre/ESC	10.516	1.700	Oct-04	1.730	Oct-05	1.750	Oct-06	Continuing	TBD	TBD
Miscellaneous SPO	SS/BOA	Multiple	1.398	0.308	Oct-04	0.200	Oct-05	0.200	Oct-06	Continuing	TBD	TBD
Subtotal Support			14.323	2.208		2.130		2.175		Continuing	TBD	TBD
Remarks:												
(U) <u>Congressional Adds</u> Applied Research in Computing Enterprise Services (ARCES)	SS/FFP	Villanova Univ./PA	0.000	1.800	Dec-05	3.000		0.000		0.000	4.800	4.800
Command and Control Service Level Management	TBD	TBD	0.000	0.000		7.000		0.000		0.000	7.000	7.000
Subtotal Congressional Adds			0.000	1.800		10.000		0.000		0.000	11.800	11.800
Remarks:												
(U) Total Cost			17.356	5.096		13.306		3.348		Continuing	TBD	TBD

## Exhibit R-4, RDT&amp;E Schedule Profile

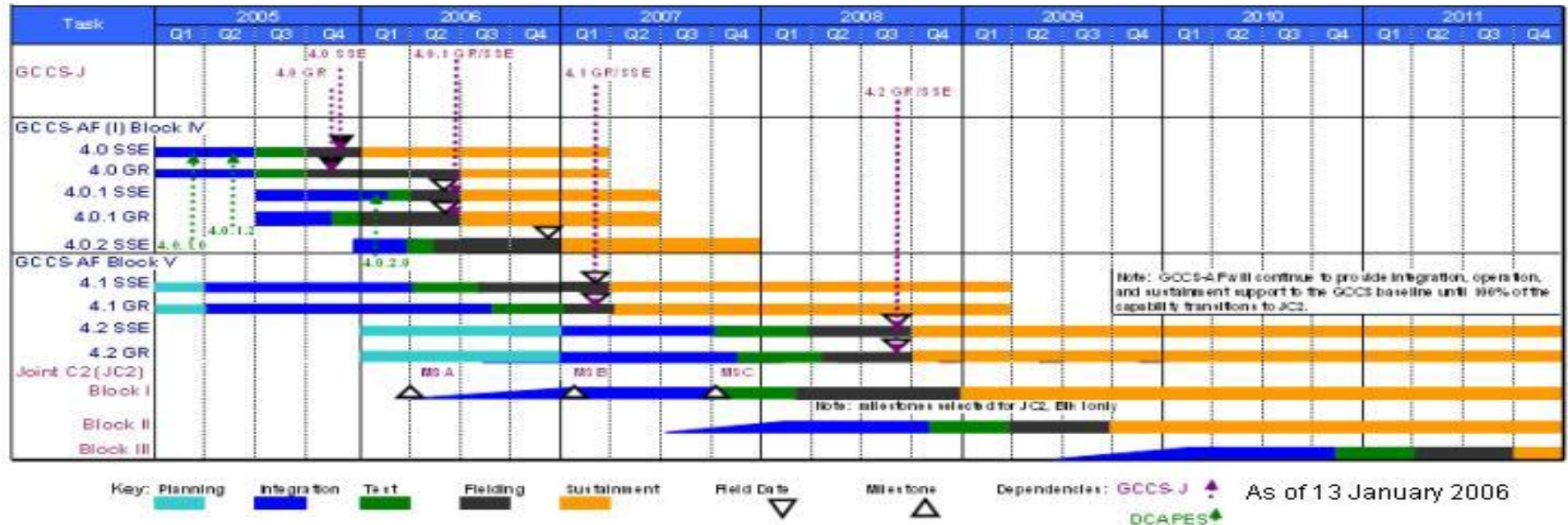
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## Exhibit R-4a, RDT&amp;E Schedule Detail

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PROJECT NUMBER AND TITLE

4667 Global Command and Control  
System - AF(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) GGCS-AF v4.0 GR/SSE: Development/Integration/Testing/Fielding

1-4Q

(U) GCCS-AF v4.0.1: GR/SSE Development/Integration/Fielding/Testing

3-4Q

1-2Q

(U) GCCS-AF v4.0.2: SSE Development/Integration/Testing/Fielding

4Q

1-4Q

(U) GCCS-AF v4.1: SSE/GR Development/Integration/Testing/Fielding

2-4Q

1-4Q

1Q