PE TITLE: WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM

	Ex	DATE	February 2	2005							
BUDGET ACTIVITY  07 Operational System Development  PE NUMBER AND TITLE  0303150F WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM											
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	3.725	5.248	3.541	3.649	3.734	3.720	3.809	3.868	Continuing	TBD
4667	Global Command and Control System - AF	3.725	5.248	3.541	3.649	3.734	3.720	3.809	3.868	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.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	3.500	3.611	3.622	3.694
(U) Current PBR/President's Budget	3.725	5.248	3.541	3.649
(U) Total Adjustments	0.225	1.637		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.163		
Congressional Increases		1.800		
Reprogrammings	0.330			
SBIR/STTR Transfer	-0.105			

#### (U) Significant Program Changes:

FY05 \$1.8M Congressional add placed in this program line to finance the research laboratory.

R-1 Shopping List - Item No. 173-2 of 173-7

Exhibit R-2 (PE 0303150F

Exhibit R-2a, RDT&E Project Justification										February 2005		
	T ACTIVITY erational System Development				030315	BER AND TITLE OF WWMCO AND & CON	S/GLOBAL	46	OJECT NUMBE 6 <b>7 Global Co</b> stem - AF		d Control	
	Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total	
4667	Global Command and Control System - AF	3.725	Estimate 5.248	Estimate 3.541	Estimate 3.649	Estimate 3.734	Estimate 3.720	Estimate 3.809	Estimate 3.868	Complete  Continuing	TBD	
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

### (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.

(U	B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U	Continue Integration and Development of Future Aerospace C2 Concepts, Crisis Action Planning	0.800	0.850	0.875	0.900
	Evolution				
(U	Continue Integration of Air Force Capabilities into GCCS (COP, SIAP, DCAPES, ATO Reader, Joint	1.625	1.298	1.300	1.339
	Defensive Planner (JDP), Joint Targeting Toolbox (JTT)), Prototype Software Development, GCCS				
	Migration Support				
(U	Congressional add for Applied Research in Computing Enterprise Services		1.800		
(U	Continue COE Development and Distribution	1.300	1.300	1.366	1.410
(U	) Total Cost	3.725	5.248	3.541	3.649

Project 4667 R-1 Shopping List - Item No. 173-3 of 173-7

	DATE	February 20	005								
BUDGET ACTIVITY  07 Operational System Development									CT NUMBER AND TITLE  Global Command and Control  m - AF		
(U) <u>C. Other Program Fundi</u>	ng Summary (\$ in I FY 2004	Millions) FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	EV 2011	Cost to		
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate		$\frac{\text{Cost to}}{\text{Complete}}  \frac{\text{T}}{\text{Complete}}$	otal Cost	
(U) AF RDT&E (U) Other APPN	3.725	5.248	3.541	3.649	3.734	3.720	3.809	3.868	Continuing	TBD TBD	
(U) Other Procurement, AF (3080)	27.283	16.168	11.891	15.259	15.320	15.649	16.023	16.253	Continuing	TBD	

## (U) <u>D. Acquisition Strategy</u>

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.

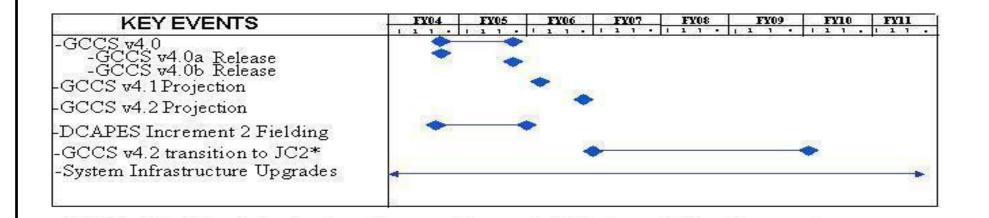
Project 4667 R-1 Shopping List - Item No. 173-4 of 173-7 Exhibit R-2a (PE 0303150F)

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		ary 200	)5
BUDGET ACTIVITY  07 Operational System Development				0303150F WWMCCS/GLOBAL 4667 (							CT NUMBER AND TITLE  Global Command and Control			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development Miscellaneous	SS/BOA		0.433	0.400	Oct-03	0.300	Oct-04	0.300	Oct-05	0.309	Oct-06	0.000	1.742 0.000	
WINxB	SS/FFP	Northrop Gruman ITS/Herndon, VA	1.400	0.800	Oct-03	0.737	Oct-04	0.800	Oct-05	0.810	Oct-06	Continuing	TBD	TBD
DCAPES* Subtotal Product Development Remarks: *In FY 00 DCA	SS/FFP PES funding w		8.776 10.609 PE 27438	0.000 1.200		1.037		1.100		1.119		0.000 Continuing	8.776 TBD	TBD
(U) Support Information Technology Services Program (ITSP)	SS/FFP	Multiple	2.109	0.300	Oct-03	0.300	Oct-04	0.300	Oct-05	0.310	Oct-06	Continuing	TBD	TBD
Miscellaneous SPO Subtotal Support Remarks:	SS/BOA	Multiple	0.873 2.982	0.525 0.825	Oct-03	0.311 0.611	Oct-04	0.331 0.631	Oct-05	0.400 0.710	Oct-06	Continuing Continuing	TBD TBD	TBD TBD
(U) Management FFRDC Subtotal Management Remarks:	SS/FFP	Mitre/ESC	8.816 8.816	1.700 1.700	Oct-03	1.800 1.800	Oct-04	1.810 1.810	Oct-05	1.820 1.820	Oct-06	Continuing Continuing	TBD TBD	TBD TBD
(U) <u>Congressional Adds</u> Applied research in Computing Enterprise				0.000		1.800		0.000		0.000			1.800	
Services Subtotal Congressional Adds			0.000	0.000		1.800		0.000		0.000		0.000	1.800	0.000
Remarks: (U) Total Cost			22.407	3.725		5.248		3.541		3.649		Continuing	TBD	TBD

Project 4667

Exhibit R-3 (PE 0303150F)

Exhibit R-4, RDT&E Schedule P	DATE February 2005	
		T NUMBER AND TITLE
1 ' '	System	lobal Command and Control n - AF



\*GCCS-AF v4.2 is the beginning of the transition to the Joint Command and Control System (JC2) in FY06.

Project 4667

R-1 Shopping List - Item No. 173-6 of 173-7

Exhibit R-4 (PE 0303150F)

Exhibit R-4a, RDT&E Sched	DATE <b>Februa</b>	DATE February 2005			
BUDGET ACTIVITY  07 Operational System Development	PE NUMBER AND TITLE 0303150F WWMCCS/G COMMAND & CONTRO		PROJECT NUMBER AND TITLE 4667 Global Command and Contro System - AF		
(U) Schedule Profile	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007	
(U) GGCS-AF v4.0a/b: Development/Integration/Testing/Fielding	3-4Q	1-3Q			
(U) GCCS-AF v4.1: Development/Integration/Testing/Fielding			1Q		
(U) GCCS-AF v4.2: Development/Integration/Testing/Fielding			4Q		
(U) DCAPES Increment 2: Integration/Testing/Fielding	2-4Q	1-4Q			
(U) GCCS-AF v4.x: Transition to Joint Command and Control System			4Q	1-4Q	
(U) GCCS-AF System Infrastructure Upgrades to support v4.0/JC2	1-4Q	1-4Q	1-4Q	1-4Q	

Project 4667

R-1 Shopping List - Item No. 173-7 of 173-7

Exhibit R-4a (PE 0303150F)