

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603854F I Wideband Global SATCOM RDT&E (Space)							
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	-	10.438	-	-	-	-	-	-	-	-	-	10.438
644870: Command and Control System Consolidated (CCSC)	-	10.438	-	-	-	-	-	-	-	-	-	10.438
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: 326												
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
Since FY2011 was the last year of RDT&E funding for Project 644811, Wideband Gapfiller, reporting for this project has terminated.												
In FY2014, Project 644870, Command and Control System - Consolidated (CCS-C), efforts were transferred to PE 0605433F, Wideband Global SATCOM (Space), Project 657102, CCS-C, in order to transition to Budget Activity 5.												
A. Mission Description and Budget Item Justification												
The Military Satellite Communications (MILSATCOM) Command and Control System-Consolidated (CCS-C) system provides integrated launch and on-orbit command and control (C2) functionality, and backup operations at Schriever AFB and Vandenberg AFB, for MILSATCOM satellites as the legacy capability provided by the Air Force Satellite Control Network (PE 0305110F) has phased out according to plan. CCS-C uses modified commercial off the shelf hardware/software to control all emerging and legacy MILSATCOM systems including Milstar, Defense Satellite Communications System (DSCS), Wideband Global SATCOM (WGS) and Advanced Extremely High Frequency (AEHF) satellites.												
The CCS-C project 644870 funds software and database development for WGS Block I and II satellites, and AEHF satellites 1 through 3. The WGS and AEHF procurement program elements will fund the mission unique software and databases for the WGS Block II Follow-On satellites and the AEHF 4-6 satellites, respectively. CCS-C will also evolve the system architecture to provide increased performance for additional satellites; to comply with DoD, Air Force, and AFSPC-directed standards for Information Assurance, Satellite Control Standardization, and Net-Readiness; and to add space situational awareness and new C2 training system capabilities.												
In FY14, due to a change in Budget Activity from 4 to 5, funds transfer to PE 0605433F, Project 657102.												
Funding is in Budget Activity 4, Advanced Component Development and Prototypes, as it supports component development and prototyping for MILSATCOM satellites.												

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force							Date: March 2014				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 Program Element (Number/Name) PE 0603854F I Wideband Global SATCOM RDT&E (Space)							
B. Program Change Summary (\$ in Millions)				FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total			
Previous President's Budget				12.027	-	-	-	-			
Current President's Budget				10.438	-	-	-	-			
Total Adjustments				-1.589	-	-	-	-			
• Congressional General Reductions				-	-						
• Congressional Directed Reductions				-0.016	-						
• Congressional Rescissions				-	-						
• Congressional Adds				-	-						
• Congressional Directed Transfers				-	-						
• Reprogrammings				-	-						
• SBIR/STTR Transfer				-0.585	-						
• Other Adjustments				-0.988	-	-	-	-			
Change Summary Explanation											
FY13: Other Adjustment row: -\$0.988M, due to sequestration.											
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2013	FY 2014	FY 2015		
Title: CCS-C development							10.438	-	-		
Description: Develop and acquire satellite-specific software to support handover of on-orbit operations of WGS satellites and launch, early-orbit, and on-orbit operations of AEHF satellites.											
FY 2013 Accomplishments: Funded the development completion to support launch of WGS SV-5 and SV-6. Completed development and conducted launch and early orbit operations for AEHF SV-3. Initiated technical analysis for CCS-C architecture evolution.											
FY 2014 Plans: In FY14, funds transfer to PE 0605433F, Project 657102.											
Accomplishments/Planned Programs Subtotals							10.438	-	-		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPAF: BA03: Line Item # 836780: Milsatcom Space	0.259	0.261	0.265	-	0.265	0.271	0.276	0.280	0.285	Continuing	Continuing

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603854F / <i>Wideband Global SATCOM RDT&E (Space)</i>						
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>
• RDT&E: BA05: PE 0605433F: <i>Wideband Global SATCOM (Space)</i>	-	12.489	31.426	-	31.426	41.615	37.727	18.275	18.624	Continuing	Continuing
Remarks											
E. Acquisition Strategy Competitive contracts with cost plus award fee options were awarded in February 2001 to two teams to demonstrate capabilities for the concept demonstration phase. A downselect to a single team was awarded in March 2002 to develop the system for the development phase. The initial CCS-C contract was extended through 2012 to provide launch readiness support to ongoing WGS and AEHF satellite development. A follow-on competitive FPIF contract began performance in January 2013 to sustain and provide post-production development for the current CCS-C system for telemetry, tracking and commanding (TT&C) of current and future MILSATCOM satellites.											
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.											

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity

3600 / 4

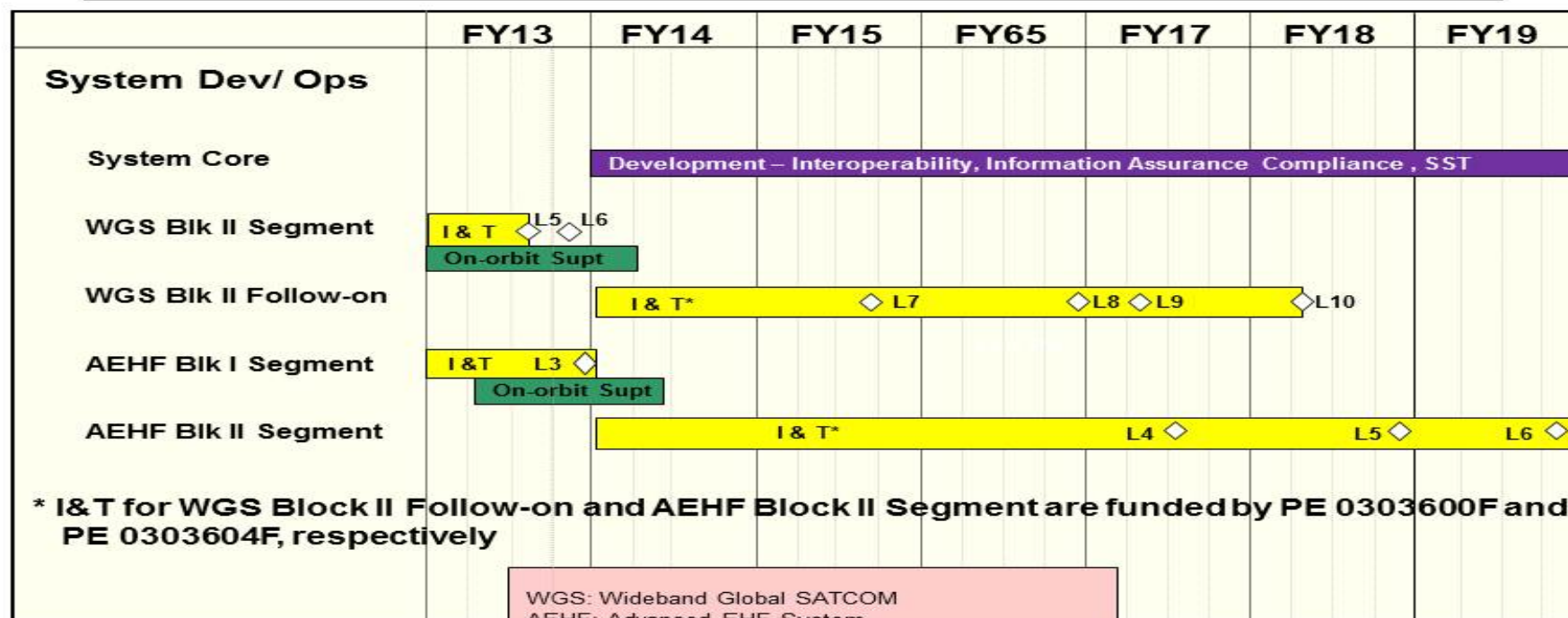
R-1 Program Element (Number/Name)

PE 0603854F / Wideband Global SATCOM
RDT&E (Space)

Project (Number/Name)

644870 / Command and Control System
Consolidated (CCSC)

**These efforts are funded in PE 0603854F, Project 644870 through FY13.
Beginning FY14 these efforts are funded in PE 0605433F, Project 657102.**



Note: All CCS-C WGS-6 effort is funded by Australia

WGS: Wideband Global SATCOM
AEHF: Advanced EHF System
I & T: Integration and Test
KPP: Key Performance Parameter
SST: Standard Space Trainer