

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207412F I Control and Reporting Center (CRC)							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	6.435	-	0.559	-	0.559	5.433	2.468	0.010	9.565	Continuing	Continuing
67485L: Theater Air Control System Imp (TACSI)	-	6.435	-	0.559	-	0.559	5.433	2.468	0.010	9.565	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2016, Project 67485L, Theater Air Control Sys Imp (TACSI), includes new start effort for JTIDS LINK 16 Terminal replacement.

A. Mission Description and Budget Item Justification

The Control and Reporting Center (CRC) program element provides for development and integration of new capabilities, upgrades, and modifications including those required to maintain capability due to replacement of diminishing manufacturing sources. The CRC is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It consists of facilities, equipment, and people. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations. The CRC projects include development of Theater Air Control Systems Improvement (TACSI) capabilities. These efforts include, but are not limited to, the development and modification of the AN/TRC-23A Operations Module (OM), the AN/TRC-215 Remote Radio Secure Voice System (RRSVS) and the Joint Tactical Information Distribution System (JTIDS) Module Link 16 Terminal. JTIDS Module link 16 Terminal is a new start in FY16.

AN/TRC-23A OM is a low density/high demand (LD/HD), rapidly deployable, ground-based C2 asset. This automated, computer-based information system provides operators the real-time battlespace picture necessary to plan, direct, and control tactical air operations and airspace management tasks. In order to meet warfighter requirements, incremental updates are required. For example, these improvements will add Secret Internet Protocol Router Network (SIPRnet), Mode 5 integration, improved data links, and Multiple Source Correlator Tracker upgrades. Modifications will be required to integrate with the Three Dimensional Expeditionary Long Range Radar (3DELRR). AN/TRC-215 RRSVS is a voice radio and OM-interface unit. The RRSVS allows real-time, secure voice communications between aircraft in development and battle management C2 operators in the CRC. Everything over Internet Protocol (EoIP), which is used for external communications, will also be integrated into a future RRSVS upgrade. JTIDS Link 16 Terminal Replacement will provide crypto modernization and will meet the FAA mandated frequency re-mapping requirement.

In FY 2016, Project 67485L, Theater Air Control Sys Imp (TACSI), includes new start effort for JTIDS LINK 16 Terminal replacement.

Activities also include studies and analysis supporting current and future program planning and future development of open system architecture requirements.

This program is in Budget Activity 7, Operational System Development. 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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force				Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0207412F I Control and Reporting Center (CRC)				
B. Program Change Summary (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		6.993	0.552	0.563	-	0.563
Current President's Budget		6.435	-	0.559	-	0.559
Total Adjustments		-0.558	-0.552	-0.004	-	-0.004
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-0.552			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-0.328	-			
• SBIR/STTR Transfer		-0.230	-			
• Other Adjustments		-	-	-0.004	-	-0.004
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2014	FY 2015	FY 2016
Title: OM Mod				6.195	-	-
Description: The OM Mod Upgrade effort's activities included the engineering manufacturing and development of the OM Mod Units, Developmental/ Operational Test (DT/OT), integration and technical data package development.						
FY 2014 Accomplishments: OM Mod Upgrade effort includes: the development of 2 OM Mod Production Representative Units (PRUs), integration, technical data package and the completion of DT.						
FY 2015 Plans: N/A						
FY 2016 Plans: N/A						
Title: RRSVS 3.2				0.240	-	-
Description: RRSVS activities include, but are not limited to, the development, testing and integration of software upgrades.						
FY 2014 Accomplishments: Completed the integration efforts prior to the start of production activities in support of RRSVS.						
FY 2015 Plans: N/A						
FY 2016 Plans:						

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force								Date: February 2015			
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>						R-1 Program Element (Number/Name) PE 0207412F <i>I Control and Reporting Center (CRC)</i>					
C. Accomplishments/Planned Programs (\$ in Millions)								FY 2014	FY 2015	FY 2016	
N/A											
Title: JTIDS Description: JTIDS Link 16 Terminal Replacement will provide crypto modernization and will meet the FAA mandated frequency re-mapping requirement FY 2014 Accomplishments: N/A FY 2015 Plans: N/A FY 2016 Plans: Will begin development and support efforts of the Joint Tactical Information Distribution System (JTIDS) upgrade.								-	-	0.559	
Accomplishments/Planned Programs Subtotals								6.435	-	0.559	
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF: BA03: Line Item # 833040: <i>Theater Air Control Sys Improvements</i>	4.561	50.033	22.710	-	22.710	28.340	7.722	12.228	2.893	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
The CRC program is utilizing evolutionary development to modernize and further advance current and future battlespace awareness and tactical BMC2 capabilities. A variety of contract types will be utilized depending on type of effort. Contracting strategy will include, but is not limited to, open competition, sole source contracts, and interdepartmental purchase requests.											
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-3, RDT&E Project Cost Analysis: PB 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207412F / Control and Reporting Center (CRC)				Project (Number/Name) 67485L / Theater Air Control System Imp (TACSI)					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remote Radio Spiral 3.2	MIPR	SPAWARSSYSCEN Atlantic : North Charleston, SC	-	0.240	Jan 2014	-		-		-		-	Continuing	Continuing	-
OM MOD Upgrade	MIPR	SMDC Space and Missile Defense Center : REDSTONE ARSENAL, AL	-	3.067	Nov 2013	-		-		-		-	Continuing	Continuing	-
JTIDS II Terminals	TBD	TBD : TBD,	-	-		-		0.360	Jan 2016	-		0.360	Continuing	Continuing	-
Subtotal			-	3.307		-		0.360		-		0.360	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Support	Various	Various : Various, MA	-	0.986	Apr 2014	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.986		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration	Various	Various : Hanscom, MA	-	2.142	Jan 2014	-		0.199	Jan 2016	-		0.199	Continuing	Continuing	-
Subtotal			-	2.142		-		0.199		-		0.199	-	-	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207412F / <i>Control and Reporting Center (CRC)</i>				Project (Number/Name) 67485L / <i>Theater Air Control System Imp (TACSI)</i>				
	Prior Years	FY 2014	FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	6.435	-		0.559		-		0.559	-	-	-
Remarks												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force			Date: February 2015		
Appropriation/Budget Activity 3600 / 7		R-1 Program Element (Number/Name) PE 0207412F / <i>Control and Reporting Center (CRC)</i>			Project (Number/Name) 67485L / <i>Theater Air Control System Imp (TACSI)</i>

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
RRSVS 3.2 Integration/Testing	■																											
RRSVS 3.2 Production	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■												
RRSVS 3.2 FD Full Deployment													■	■														
OM Modification Development/Integration	■	■	■	■	■	■	■	■																				
OM Modification PRUs Delivered			■	■																								
OM Modificaton Milestone C					■	■																						
OM Modification Production							■	■	■	■	■	■	■	■	■	■	■	■	■									
OM Modification FD Full Deployment																■	■											
JTIDS Design / Development											■	■	■	■	■	■												
JTIDS Integration / Test																■	■	■	■									
JTIDS Production / ICS																	■	■	■	■	■	■	■	■	■	■	■	■

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207412F / <i>Control and Reporting Center (CRC)</i>	Project (Number/Name) 67485L / <i>Theater Air Control System Imp (TACSI)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
RRSVS 3.2 Integration/Testing	1	2014	1	2014
RRSVS 3.2 Production	1	2014	3	2017
RRSVS 3.2 FD Full Deployment	3	2017	3	2017
OM Modification Development/Integration	1	2014	1	2015
OM Modification PRUs Delivered	3	2014	3	2014
OM Modificaton Milestone C	1	2015	1	2015
OM Modification Production	3	2015	1	2018
OM Modification FD Full Deployment	1	2018	1	2018
JTIDS Design / Development	4	2016	4	2017
JTIDS Integration / Test	1	2018	2	2018
JTIDS Production / ICS	3	2018	1	2020