Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207412F I Control and Reporting Center (CRC)

Date: February 2015

Operational Systems Development

, ,													
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

Air Force

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.

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R-1 Line #151

PE 0207412F: Control and Reporting Center (CRC)

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air	r Force				Date: F	ebruary 201	5
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I Operational Systems Development	BA 7:		ement (Number/Name Control and Reporting C				
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 O	CO	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)				F	Y 2014	FY 2015	FY 2010
Title: OM Mod					6.195		
Units, Developmental/ Operational Test (DT/OT), integration a FY 2014 Accomplishments: OM Mod Upgrade effort includes: the development of 2 OM Modata package and the completion of DT. FY 2015 Plans: N/A FY 2016 Plans: N/A				echnical			
Title: RRSVS 3.2					0.240	-	
Description: RRSVS activities include, but are not limited to,	the development	, testing and integ	ration of software upgra	ades.			
FY 2014 Accomplishments: Completed the integration efforts prior to the start of production	on activities in sup	port of RRSVS.					
FY 2015 Plans: N/A							
FY 2016 Plans:							

PE 0207412F: Control and Reporting Center (CRC) Air Force

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R-1 Line #151

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207412F I Control and Reporting Center (CRC)

Operational Systems Development

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
N/A			
Title: JTIDS	-	-	0.559
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.			
Accomplishments/Planned Programs Subtotals	6.435	-	0.559

D. Other Program Funding Summary (\$ in Millions)

			FY 2016	FY 2016	FY 2016				Cost To
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020 Complete Total Cost
 OPAF: BA03: Line Item 	4.561	50.033	22.710	-	22.710	28.340	7.722	12.228	2.893 Continuing Continuing
# 833040: Theater Air									

Control Sys Improvements

Remarks

Air Force

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.

PE 0207412F: Control and Reporting Center (CRC)

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Air F	orce								Date:	February	2015																					
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207412F I Control and Reporting Center (CRC) Project (Number/67485L I Theater IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								rol Syster	n Imp																				
Product Developme	nt (\$ in M	illions)		FY 2	FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2014		FY 2015		4 FY 2015		FY 2016 F Base		2016 CO	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	Total Cost	Target Value of Contract																				
Remote Radio Spiral 3.2	MIPR	SPAWARSYSCEN 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 Million	ıs)			FY 2	2014	FY:	2015		2016 ise		2016 CO	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 Contrac																				
		Subtotal	-	-		-		-		-		-	-	-	-																				
Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY	2015		2016 ise		2016 CO	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	Total Cost	Target Value of Contract																				
Test Support	Various	Various : Various, MA	-	0.986	Apr 2014	-		-		-		-	Continuing	Continuing	-																				
		Subtotal	-	0.986		-		-		-		-	-	-	-																				
Management Servic	es (\$ in M	illions)		FY 2	2014	FY	2015		2016 ise		2016 CO	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	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	-	-	-																				

PE 0207412F: Control and Reporting Center (CRC)

Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force									Date: February 2015			
Appropriation/Budget Activity 3600 / 7		lement (Number/N Control and Report	ting 6	Project (Number/Name) 67485L I Theater Air Control System Imp (TACSI)								
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 201 OCO		Cost To Complete	Total Cost	Target Value of Contract			
Project Cost Totals	-	6.435	-	0.559	-	0.559	-	-	-			

Remarks

PE 0207412F: Control and Reporting Center (CRC)

Air Force

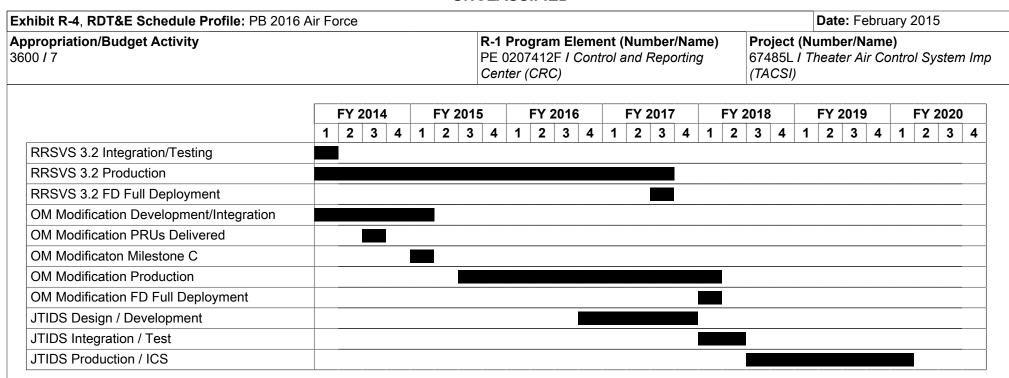


Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	1	- , (umber/Name) Theater Air Control System Imp

Schedule Details

	St	art	End		
Events	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	