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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 0101316F / <i>Worldwide Joint Strategic Communications</i>
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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	-	-	-	5.315	-	5.315	6.102	6.347	0.992	2.479	Continuing	Continuing
671820: <i>Strategic Automated Command and Control System</i>	-	-	-	5.315	-	5.315	6.102	6.347	0.992	2.479	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY16, Project 671820, Strategic Automated Command and Control System (SACCS), includes a new start effort for SACCS Replacement.

A. Mission Description and Budget Item Justification

SACCS is a dedicated, high speed, multi-level secure, data transmission, processing, and display system. It provides the primary non-survivable command and control capability for receiving and disseminating secure Emergency Action Messages (EAM), Force Direction Messages (FDM), and exchanging information type messages from USSTRATCOM. SACCS provides messages for effective deployment of strategic bombers, reconnaissance aircraft, mobilization aircraft, tanker support aircraft, and the Intercontinental Ballistic Missile (ICBM) force.

The SACCS system has equipment that has reached its end of life and is no longer repairable due to diminished manufacturing sources and parts obsolescence. This jeopardizes Air Force Global Strike Command's (AFGSC) ability to meet mission requirements as required by Chairman Joint Chief of Staff Nuclear Technical Performance Criteria and Operational Standards (CJCSI 6811.01). In order to mitigate the risk of SACCS inability to operate once the current spares are completely diminished, the SACCS System Program Office will develop replacement equipment through a phased approach which includes studies, analysis and development.

This program, Strategic Automated Command and Control System, is a new start.

This program is in Budget Activity 07, Operational System Development, because 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 years.

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B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	5.315	-	5.315
Total Adjustments	-	-	5.315	-	5.315
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	5.315	-	5.315

Change Summary Explanation

SACCS funding for FY16 increased for the New Start.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: SACCS Replacement - FY16 New Start	-	-	5.315	-	5.315
Description: Phase I: Design and develop replacement SACCS accountable processors (e.g. Subnet/Base Communication Processor (SCP/BCP)) that disseminate National Command Authority messages to nuclear forces. Phase II: Design and develop replacement end user equipment to support the nuclear mission. New equipment will improve Mean Time Between Failure rates, cost savings, reliability, availability, improve user interface, address Diminishing Manufacturing Sources and Material Shortages and obsolescence challenges, and meet Chairman Joint Chief of Staff Nuclear Technical Performance Criteria and Operational Standards (CJCSI 6811.01).					
FY 2014 Accomplishments: N/A					
FY 2015 Plans:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
N/A					
FY 2016 Base Plans: - Draft SACCS Capability Description Document and technical requirements documents - Award contract to develop Phase I design solution.					
FY 2016 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	-	-	5.315	-	5.315

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF: BA03: Line Item #833140: <i>Strategic Command and Control System</i>	-	-	0.248	-	0.248	0.248	0.496	1.388	1.289	Continuing	Continuing
• OPAF: BA03: Line Item #861900: <i>Worldwide Joint Strategic Communications - Spares and Repair Parts</i>	-	0.610	1.047	-	1.047	0.928	0.827	0.842	0.856	Continuing	Continuing

Remarks

E. Acquisition Strategy

Programmed funds will leverage technology development and architecture analysis conducted by Air Force Research Labs to begin a SACCS Replacement Program and conduct pre-Milestone B activities leading to a future Milestone B decision and Engineering and Manufacturing Development contract award.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force												Date: February 2015				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 7				PE 0101316F / Worldwide Joint Strategic Communications				671820 / Strategic Automated Command and Control System								
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	
Pre-Milestone B Analysis and Preliminary Design Review preparation	TBD	TBD :	-	-		-		4.485	Mar 2016	-		4.485	Continuing	Continuing	-	
Subtotal			-	-		-		4.485		-		4.485	-	-	-	
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	
Subtotal			-	-		-		-		-		-	-	-	-	
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	
SACCS Development (FFRDC Support)	TBD	TBD : TBD,	-	-		-		0.380	Oct 2015	-		0.380	Continuing	Continuing	-	
SACCS Development (A/AS Support)	TBD	TBD : TBD,	-	-		-		0.450	Oct 2015	-		0.450	Continuing	Continuing	-	
Subtotal			-	-		-		0.830		-		0.830	-	-	-	
Project Cost Totals			-	-		-		5.315		-		5.315	-	-	-	

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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 0101316F / <i>Worldwide Joint Strategic Communications</i>	Project (Number/Name) 671820 / <i>Strategic Automated Command and Control System</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Strategic Automated Command and Control System (SACCS) Replacement Phase I	1	2016	4	2019
Preliminary Design Review	1	2017	1	2017
Milestone B Decision	3	2017	3	2017
Critical Design Review	3	2018	3	2018
Milestone C Decision	1	2019	1	2019
SACCS Replacement Phase II	1	2020	4	2020