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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0101316F I Worldwide Joint Strategic Communications							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	3.815	6.042	6.272	0.000	6.272	6.285	0.000	2.501	2.552	Continuing	Continuing
671820: Strategic Automated Command and Control System	-	3.815	6.042	6.272	0.000	6.272	6.285	0.000	2.501	2.552	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Worldwide Joint Strategic Communication efforts include Nuclear Command, Control, and Communications (NC3) systems to include the Defense Injection Reception Emergency Action Message (EAM) C2 Terminals (DIRECT), Aircrew Alerting Communications Electromagnetic Pulse (AACE), the Strategic Emergency Action Transmission System (SEATS), the Defense Red Switch Network (DRSN), and the Strategic Automated Command and Control System (SACCS). Funding may be used to modernize these, and other, NC3 systems. Funding may also be used for research, testing, validation, certification, configuration management, and assessment of the Air Force NC3 Weapon System.

SACCS is a dedicated, high speed, multi-level secure, data transmission, processing, and display system. SACCS provides the primary non-survivable command and control capability for receiving and disseminating secure Emergency Action Messages (EAM), Force Direction Messages (FDM), Force Status Reporting (FSR), 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.

SACCS 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, and ensure the system remains secure against modern/future threats, the Air Force is developing a replacement system.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget		5.315	6.042	6.286	0.000	6.286
Current President's Budget		3.815	6.042	6.272	0.000	6.272
Total Adjustments		-1.500	0.000	-0.014	0.000	-0.014
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-1.500	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-0.014	0.000	-0.014
Change Summary Explanation FY 2016 \$1.5M reprogrammed to higher Air Force priorities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2016	FY 2017	FY 2018
Title: SACCS Replacement				3.815	6.042	6.272
Description: Design and develop replacement Strategic Automated Command Control System (SACCS). Replaces all SACCS network components (e.g. Subnet Communications Processor (SCP), Base Communication Processor (BCP), Port Expansion Processor (PEP), and end user terminals). New equipment resolves cybersecurity issues, improves Mean Time Between Failure rates, reliability, availability, improves user interface, decreases annual sustainment costs, addresses Diminishing Manufacturing Sources and Material Shortages and obsolescence challenges, and meets Chairman Joint Chiefs of Staff Nuclear Technical Performance Criteria and Operational Standards (CJCSI 6811.01).						
FY 2016 Accomplishments: - Initiated Technology Maturation and Risk Reduction (TMRR) phase to complete design for a full system modernization						
FY 2017 Plans: - Continue TMRR phase through successful System Requirements Review (SRR), System Functional Review (SFR), and Preliminary Design Review (PDR) - Complete documentation in support of a Milestone B decision and prepare for Critical Design Review (CDR) in FY18						
FY 2018 Plans: - Enter MS B and complete Critical Design Review (CDR)						

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2016	FY 2017	FY 2018	
- Begin developmental test and evaluation											
Accomplishments/Planned Programs Subtotals								3.815	6.042	6.272	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• OPAF: BA03: Line Item #833140:: <i>Strategic Command and Control</i>	0.248	0.246	6.497	0.000	6.497	11.895	3.973	1.514	1.537	Continuing	Continuing
• OPAF: BA05: Line Item #86190A: <i>Spares and Repair Parts</i>	1.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
A TMRR contract was awarded to Northrop Grumman to conduct Pre-EMD risk reduction activities. The Ogden Air Logistics Complex (OO-ALC) is working with the SACCS program office and the Pre-EMD contractor. The OO-ALC will become the lead EMD developer after Milestone B through to Full Operational Capability (FOC). The TMRR contractor will support the OO-ALC throughout the program.											
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.											