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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 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0102326F I Region/Sector Operation Control Center Modernization Program							
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	-	4.161	1.624	1.522	-	1.522	-	-	-	-	-	7.307
674592: R/SAOC MODERNIZATION	-	4.161	1.624	1.522	-	1.522	-	-	-	-	-	7.307
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Battle Control System-Fixed (BCS-F) is the operational equipment replacement in the fixed air defense sites, Region/Sector Air Operations Center (R/SAOC), also known as Region Air Operations Center-Air Defense Sector (RAOC-ADS). The BCS-F Program, which supports a next-generation battle management command and control system with enhanced capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive recognized air picture and National Capital Region/Integrated Air Defense System (NCR/IADS). This multi-input single integrated air control picture enhances the North American Aerospace Defense/Combatant Commander's (NORAD/CC's) capability to conduct peacetime air sovereignty, transition, and conventional warfare in the event of aggression toward the North American continent (including Hawaii). The BCS-F system serves as the Air Force's Homeland Defense battle management, command, and control hub and integrates data from radar sensors, data links, and the supporting communications architecture. It provides the tactical communications and data link capabilities that enable planning, directing, coordinating, and controlling forces for air surveillance, air defense, and control of sovereign US air space (including the National Capital Region). BCS-F is a bi-national cooperative program with Canada, ensuring air defense and surveillance capability for the entire North American continent (including Hawaii). BCS-F achieved Initial Operational Capability in October 2006 and full deployment declaration in Nov 2012.

NCR-IADS is the post-September 11, 2001, quickly established, ground based air defense system using sensors to enhance the air surveillance picture and is incorporated into BCS-F.

Battle Control System Modernization/Sustainment: The BCS M/S program efforts include, but are not limited to, providing system changes to facilitate mission area changes such as Radiant Mercury (RM) Redundancy, Sensor Integration, Battle Control Center (BCC) Expansion, Automatic Dependent Surveillance-Broadcast (ADS-B) and Remote Tactical Air Picture (RTAP) extensibility. Activities also include studies and analysis to support both current program planning and program execution, as well as future program planning.

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 year.

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B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	
Previous President's Budget		5.609	1.700	1.500	-	1.500	
Current President's Budget		4.161	1.624	1.522	-	1.522	
Total Adjustments		-1.448	-0.076	0.022	-	0.022	
• Congressional General Reductions		-	-0.076				
• Congressional Directed Reductions		-	-				
• Congressional Rescissions		-0.008	-				
• Congressional Adds		-	-				
• Congressional Directed Transfers		-	-				
• Reprogrammings		-1.039	-				
• SBIR/STTR Transfer		-0.401	-				
• Other Adjustments		-	-	0.022	-	0.022	
Change Summary Explanation FY13 funding were reprogrammed to PE 0207412F, Control and Reporting Center, for AN/TYQ-23 Operations Module System Modernization							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2013	FY 2014	FY 2015
Title: NCR-IADS					0.392	-	-
Description: The fielding and delivery of software version 3.3							
FY 2013 Accomplishments: Completed fielding delivery of version 3.3.							
FY 2014 Plans: N/A							
FY 2015 Plans: N/A							
Title: Battle Control System Modernization/Sustainment					3.769	1.624	1.522
Description: The development, systems engineering, test and evaluation of the BCS M/S program to include Release 3.2.2 efforts and beyond.							
FY 2013 Accomplishments:							

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
This program performed development, systems engineering, test and evaluation of the BCS M/S program to include Release 3.2.2. FY 2014 Plans: This program is performing development, systems engineering, test and evaluation of the BCS M/S program to include Release of 3.2.2 efforts and RM Redundancy. FY 2015 Plans: This program will perform development, systems engineering, test and evaluation of the BCS M/S program to include RM and modification studies.												
Accomplishments/Planned Programs Subtotals										4.161	1.624	1.522
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: BA07: Line Item # 833030: Battle Control System - Fixed	14.494	14.412	2.708	-	2.708	1.699	6.458	4.040	4.113	Continuing	Continuing	
Remarks												
E. Acquisition Strategy												
Battle Control System-Increment 3: The BCS-Fixed program utilized a sole source contracting strategy that declared full deployment, completing the ACAT 1AC program. The BCS M/S program will use a sole source contracting strategy for the RM redundancy effort. Future acquisitions for sensor integration, ADS-B, and BCC Expansion are yet to be defined. NCR-IADS Version 3: The NCR-IADS program utilizes a competitive contractor logistics support strategy to sustain and maintain the system.												
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-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0102326F / Region/Sector Operation
Control Center Modernization Program

Project (Number/Name)
674592 / R/SAOC MODERNIZATION

BCS-F Program Schedule

