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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0102326F / <i>Region/Sector Operation Control Center Modernization Program</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	0.389	0.831	0.852	0.000	0.852	0.873	0.891	0.923	0.941	0.000	5.700
674592: <i>BA7 0102326F 674592 R/SAOC Modernization</i>	-	0.389	0.831	0.852	0.000	0.852	0.873	0.891	0.923	0.941	0.000	5.700
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

The Regional/Sector Operation Center Modernization program supports the NORAD/NORTHCOM homeland defense and air sovereignty mission for fixed Air Defense Sectors.

**BATTLE CONTROL SYSTEM-FIXED (BCS-F):** BCS-F is a bi-national development program with Canada. The BCS-F Program is an AF Homeland Defense battle management command and control system with the capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive air picture. BCS-F provides tactical communications and data link capabilities with other military and civil systems responsible for planning, directing, coordinating and controlling forces for air surveillance, air defense, and control of sovereign US air space. This integrated air picture enhances the capability to conduct peacetime air sovereignty operations and transition to active air defense operations in the event of aggression.

**BATTLE CONTROL SYSTEM-FIXED MODIFICATION ONE (BCS-F Modification 1):** BCS-F Modification 1 effort will support the implementation of Automatic Dependent Surveillance-Broadcast (ADS-B) data feeds and Earth Center Earth Fixed (ECEF). The BCS-F Modification 1 effort will be executed as a Cooperative Development Program between the US and Canada.

**NATIONAL CAPITOL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS):** NCR-IADS is a post-September 11, 2001 rapidly fielded capability that provides ground-based air defense of the NCR airspace by delivering an integrated air picture, air defense weapons, enhanced regional situational awareness, and forensic data collection capabilities. Life cycle replacement will be required to prevent system obsolescence, account for new cyber security requirements, and posture the program to seamlessly integrate future capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 \$0.000M was expended for civilian pay expenses in this program element and in FY25 \$0.000M is forecasted for civilian pay expenses in this program element.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute and deliver Battle Control Systems-Fixed Modification 1. The use of such programs would be in addition to the civilian pay expenses budgeted in program element 0102326F.

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This program is in Budget Activity 7, 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.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	0.406	0.831	0.850	0.000	0.850
Current President's Budget	0.389	0.831	0.852	0.000	0.852
Total Adjustments	-0.017	0.000	0.002	0.000	0.002
• 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	0.000	0.000			
• SBIR/STTR Transfer	-0.017	0.000			
• Other Adjustments	0.000	0.000	0.002	0.000	0.002

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Battle Control System-Fixed Modification 1	0.389	0.831	0.852
<b>Description:</b> Continue systems engineering, development, risk reduction, integration, test & evaluation and fielding of the BCS-F Modification 1 effort. The BCS-F Modification 1 effort will be executed as a Cooperative Program between the US and Canada.			
<b>FY 2024 Plans:</b> Continued system engineering, testing and fielding on baseline 3.3.1			
<b>FY 2025 Plans:</b> Plan include but not limited to continued testing and fielding of 3.3.1 baseline			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increased due to continued support of 3.3.1 baseline fielding and support			
<b>Accomplishments/Planned Programs Subtotals</b>	0.389	0.831	0.852

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 833030: <i>Battle Control System - Fixed</i>	1.409	1.867	3.377	-	3.377	3.449	3.571	3.648	3.721	0.000	21.042

**Remarks**

**E. Acquisition Strategy**

Acquisition Strategy: The Program Management Office (PMO) completed a full and open competition for BCS-F Modification 1 efforts. The BCS-F PMO finalized a Project Arrangement (PA) that established a cooperative development program with Canada. These efforts concluded with development and releases to the Air Defense Sectors.

Management Strategy: Program management for the BCS-F program is under direction of PEO Digital, located at Hanscom AFB, MA, in conjunction with PMO North, located in Ottawa, CA. The Air Force Life Cycle Management Center (AFLCMC) is the contracting authority for BCS-F.

Contracting Strategy: The BCS Capability modernization takes place under a variety of contract strategies including Other Transaction Authority.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102326F / <i>Region/Sector Operation Control Center Modernization Program</i>	<b>Project (Number/Name)</b> 674592 / BA7 0102326F 674592 R/SAOC Modernization

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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

<b>Battle Control System-Fixed Modification 1</b>																												
Operational Test & Fielding Support																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102326F / <i>Region/Sector Operation Control Center Modernization Program</i>	<b>Project (Number/Name)</b> 674592 / BA7 0102326F 674592 R/SAOC Modernization

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Battle Control System-Fixed Modification 1</i></b>				
Operational Test & Fielding Support	3	2023	4	2025