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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Air Force **Date:** May 2021

<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 0207522F / <i>Airbase Air Defense Systems (ABADS)</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	7.392	0.000	7.392	-	-	-	-	-	-
675218: <i>Applications Development</i>	-	0.000	0.000	7.392	0.000	7.392	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**  
 This program, BA 7, PE 0207522F, project 675218, Command and Control, Incident Management, Emergency Response Application (C2IMERA), is a new start.

In FY 2022, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development, friendly order of battle capability development efforts were transferred from PE 0207410F, Air & Space Operations Center (AOC), Project 674596, AOC WS Modifications, in order to improve installation commanders' and staff's ability to execute combat air operations.

**A. Mission Description and Budget Item Justification**  
 Command and Control, Incident Management, Emergency Response Application (C2IMERA) is a C2 system that addresses installation commanders' and staff's ability to execute combat air operations. C2IMERA funds provide enhanced installation command and control to improve decision speed, quality, and lethality by incorporating direct user feedback, connecting people, automating daily operations, and integrating data from myriad systems. C2IMERA receives input from users and system interfaces and the data is displayed on the real-time, interactive COP. C2IMERA provides automated communications via COP, emails, notifications, and alerts, alleviating the need for briefings, meetings, and radio communication.

As part of C2IMERA emergency management, Disaster Response Force Common Operating Picture (DRF COP) funds identify and/or develop, implement, and maintain a standardized, singular, and near real-time situational awareness COP for Air Force disaster response forces. DRF COP supports incidents or events at the tactical, operational, and strategic level, allowing information to be shared and exchanged across the Air Force enterprise and other relevant external agencies within the Continental United States (CONUS) and Outside the Continental United States (OCONUS) Air Force Installations.

As part of the Command and Control Operations Career Field (1C3X1) requirements, which are synergistic with DRF COP, Command Post funds Installation Command and Control of Base Operations, Mission Management and Monitoring, Higher Headquarters Information Exchange Requirements (IERS), Emergency Action Messaging, and key enablers supporting the Wing Operations Center and Agile Combat Employment.

C2IMERA FY22 funds will support the development of enhanced architecture to make C2IMERA more scalable and also to further integrate with other systems for machine to machine exchanges. This begins a transition of C2IMERA application functionality into Joint All Domain Execution System (JADES), which is a cohesive Wing C2 execution ecosystem that functions during Agile Combat Employment (ACE) operations in a peer conflict and during disconnected operations.

This program is part of the overarching Kessel Run portfolio.

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This program element may include necessary civilian pay expenses required to manage, execute, and deliver C2IMERA weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY19 \$00.000M, in FY20 \$00.000M, and in FY21 \$00.00M was expended for civilian pay expenses in this program element.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2019 Air Force penalty total is 50.0M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	7.392	0.000	7.392
Total Adjustments	0.000	0.000	7.392	0.000	7.392
• 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	0.000	0.000			
• Other Adjustments	0.000	0.000	7.392	0.000	7.392

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Command and Control, Incident Management, Emergency Response Application (C2IMERA)	-	-	7.392
<b>Description:</b> Command and Control, Incident Management, Emergency Response Application (C2IMERA) will provide enhanced installation command and control to improve decision speed, quality, and lethality by incorporating direct user feedback, connecting people, automating daily operations, and integrating data from myriad systems. C2IMERA receives input from users and system interfaces and the data is displayed on the real-time, interactive COP. C2IMERA provides automated communications via COP, emails, notifications, and alerts, alleviating the need for briefings, meetings, and radio communication.			
<b>FY 2022 Plans:</b> FY22 activities include but are not limited to the following:			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>-Will continue refinement of Disaster Response Force Common Operating Picture (DRF COP) capabilities to include enhanced automated integration with local, state, and federal safety agencies solutions.</p> <p>-Will continue further development of Advanced Battle Management System (ABMS)/Joint All Domain Command and Control(JADC2) capabilities to provide critical evolving capabilities integrating Installation Command and Control (IC2) with air operations at Major Command (MAJCOM) and Higher Headquarter (HHQ) levels. This includes enhancing system and data resiliency with edge computing technologies tied into the enterprise computing infrastructure.</p> <p>-Will continue with the extension of Cross-Domain capabilities to support full data synchronization between the low side (NIPR) and high side (SIPR) C2IMERA instances to facilitate Multi-Domain Command and Control (MDC2).</p> <p>-Will continue with the enterprise employment of C2IMERA for installation and wing command and control to enhance warfighter effectiveness and impacts achieved through an overhaul of the C2IMERA data model and a consolidated/federated data access layer.</p> <p>-Will continue with architectural improvements to transition from incrementally delivered micro services to a single-tenancy implementation with support for Software as a Service (SAAS).</p> <p>-Will continue with the automated workflow and improved system integration with continued interface development focusing on the fusion of installation/base C2 node data with MAJCOM and HHQ level systems at the strategic levels.</p> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> FY22 is the first year FRoB/C2IMERA funding is in PE 0207522F.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		-	-	7.392
<b>D. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>E. Acquisition Strategy</b>				
Projects will be awarded via a sole-source contract for Agile DevOps development, fielding and support activities. The acquisition and contracting strategies were approved by the Senior Materiel Leader on 20 June 2018				

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207522F / Airbase Air Defense Systems (ABADS)	<b>Project (Number/Name)</b> 675218 / Applications Development
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<b>Product Development (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
C2IMERA Development	TBD	TBD : TBD	-	-		-		5.192	Jan 2022	-		5.192	-	-	-
<b>Subtotal</b>			-	-		-		5.192		-		5.192	-	-	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
C2IMERA Test Support	PO	96th Test Wing : Eglin, FL	-	-		-		0.252	Mar 2022	-		0.252	-	-	-
<b>Subtotal</b>			-	-		-		0.252		-		0.252	-	-	N/A

<b>Management Services (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
C2IMERA Program Management Administration	C/Various	Not specified. : Hanscom AFB, MA	-	-		-		1.560	Jul 2022	-		1.560	-	-	-
C2IMERA Systems Engineer	SS/ Various	Not specified. : Hanscom AFB, MA	-	-		-		0.388	Oct 2022	-		0.388	-	-	-
<b>Subtotal</b>			-	-		-		1.948		-		1.948	-	-	N/A

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	<b>Project Cost Totals</b>		-	-	0.000	7.392	-	-	7.392

**Remarks**



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2022 Air Force		<b>Date:</b> May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Software Development</b>				
C2IMERA Software Development	1	2022	4	2022
<b>Test</b>				
C2IMERA Test	1	2022	4	2022