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

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 0604617F / <i>Agile Combat Support</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	-	7.937	5.645	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.582
675218: <i>Applications Development</i>	-	7.937	5.645	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.582
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program is part of the overarching Kessel Run portfolio. In FY 2023, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0604617F, Agile Combat Support (ACS), Project 675218, Applications Development.

Global all-hazards/threats to Department of the Air Force (DAF) installations continues to generate substantial risk to tactical, operational, and strategic missions. The DAF Emergency Management (EM) program builds secure and resilient installations with integrated, adaptable, and interoperable whole-of-community common core capabilities required across the range of military operations to prevent, protect against, mitigate, respond to, and recover from all-hazards/threats. The EM program is primarily concerned with natural, technological, and human-caused hazards/threats that pose the greatest risk to lives, resources, facilities, infrastructure, and mission assets. Included is DAF support to civil and host nation authorities; anti-terrorism programs; and Countering Weapons of Mass Destruction (CWMD). DAF EMIS shared battle space awareness is a critical enabler of DAF functions to deploy, employ, maneuver, and survive to operate in and through highly contested and degraded operational environments.

Development of a DAF Emergency Management Information System (EMIS) will excavate, consolidate, correlate, and propagate interoperable authoritative information to and from diverse mission partners (e.g., local, state, tribal, federal, higher headquarters, joint, and allied). It will generate the ability to collaborate with multi-jurisdictional partners and manage resources to save lives, mitigate resource loss, and continue operational missions. Included are capabilities to compress decision-making cycles; propagate a tactical, operational, and strategic Common Operating Picture (COP); and facilitate convergence of information through sensing, making sense, and taking action. DAF EMIS will enhance complex multi-jurisdictional/mission partner interoperability through use of common terminology, a COP, standardized processes, data sharing, and systematic methods. DAF EMIS interoperable informational capabilities are rooted in and support Homeland Security Presidential Directive 5 (HSPD-5), Management of Domestic Incidents, Presidential Policy Directive 8, National Preparedness, the Department of Homeland Security (DHS) National Planning Framework/Mission Areas, the National Preparedness System, the National Incident Management System (NIMS), Incident Command System (ICS), and explicit requirements expressed in DoD/DAF Emergency Management; CWMD; and Chemical, Biological, Radiological, and Nuclear (CBRN) Defense doctrine/policy. DAF EMIS requirements support SecAF operational imperatives, the AF/A4 Basing and Logistics Enterprise Strategy (BLES), the Air Force Advanced Battle Management System (ABMS), and the Joint All Domain Command and Control (JADC2) construct.

DAF EMIS requirements will be filled through agile development and new additive capabilities by leveraging the Command and Control Incident Management Emergency Response Application (C2IMERA). This tool is an installation Command and Control (C2) situational awareness and decision making capability and allows DAF EMIS to connect and integrate with the Air Force user base and C2 nodes including mission execution to include the application of air/space power authorities

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during crisis response operations/major combat operations. The alignment of DAF EMIS (e.g., AF/A4 delegated authorities for EM & CBRN defense) within and through C2IMERA provides significant synergistic effects regarding cost burden sharing to include advancing response/ recovery outcomes in support of DAF tactical, operational, and strategic war-fighting capabilities.

Through RDT&E funding and agile development DAF EMIS will develop and deliver cross-cutting common core whole-of-community informational capabilities to 1) identify and manage all-hazard/threat risk to protected assets; 2) enhance planning and resource posturing and delivery; 3) support hazard/threat specific community resiliency training; 4) facilitate EM exercise planning and execution; 5) inform and warn the populace/public/higher headquarters; and 6) support incident/attack command and coordination during response and recovery operations.

Included are DAF EMIS capabilities synchronized with DHS planning framework/mission area information capabilities to 1) prevent a threatened or an actual act of terrorism and/or nation state adversary attack through consolidating and disseminating select threat information; 2) protect lives, resources, mission assets through escalation of physical protective measures (e.g., sheltering, evacuation, hardening, etc.) to include capturing and displaying mission partner CBRN hazard COP elements; 3) mitigate the impact, severity, or consequences for community determined hazard/threat vulnerabilities (and build resiliency); 4) respond to save lives, stabilize the incident, protect personnel/assets, meet basic human needs, and set the stage for initial recovery; and 5) recover the installation by stabilizing infrastructure and restoring lifeline systems through whole-of-community collaboration (e.g., water, electrical systems, cyber systems, communications, shelter, transportation, and hazardous material), meeting the needs of individuals/the installation/local community, and prioritizing recovery of near and long-term mission generation ability.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 0.50M is forecasted for Government Program Office manpower to include civ pay, MITRE, & A&AS expenses in this program element.

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. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	8.199	5.645	0.000	0.000	0.000
Current President's Budget	7.937	5.645	0.000	0.000	0.000
Total Adjustments	-0.262	0.000	0.000	0.000	0.000
• 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	-0.262	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Title: Department of the Air Force Emergency Management Information System (DAF EMIS)</p> <p>Description: DAF EMIS supports the ability to prepare for, prevent, protect against, mitigate, respond to, and recover from the greatest hazards/threats at tactical, operational, and strategic levels; it allows information to be shared and exchanged across the DAF enterprise and other relevant external agencies within the Continental United States (CONUS) and Outside the Continental United States (OCONUS) Air Force Installations.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> -Continue software architectural improvements to C2IMERA, enable transition from incrementally delivered microservices to a multi-tenancy implementation with software as a service, and support additional DAF EMIS capabilities and increased user base. -Continue to develop DAF EMIS operational and IT system interoperability requirements. -Continue to develop interoperability capabilities and display of data within C2IMERA from servers hosting software based on Android Team Awareness Kit/Tactical Awareness Kit (ATAK) -Explore development of advanced whole-of-community EM planning and integrated risk management capabilities and enhance the ability to inform and warn the populace/public through connection/interoperability with emerging DHS CWMD sensors, DoD Joint Program Office for Chemical/Biological Defense Integrated Early Warning and CBRN support to C2 IT capabilities and concepts, and the Defense Threat Reduction Agency/DAF Austere Environment Reconnaissance and Surveillance (AERS) CBRN Defense sensors. -Continue to develop, implement, and maintain a sharable and interoperable, standardized, singular, near real-time situational awareness COP through C2IMERA for DAF and multi-jurisdictional response and recovery forces. -Improve the ability to monitor holistic near-real time status of community lifelines (Safety and Security; Food, Water, Shelter; Health and Medical; Energy/Power & Fuel; Communications; Transportation; and Hazardous Material). -Continue to support the Agile Dev Ops development of enhanced software and software architecture to make the system more scalable, add additional integrations and enhance data automation, and increase interoperability across CONUS and OCONUS DAF Installations. -Explore leveraging emergent technologies in machine learning, artificial intelligence (AI), image analytics, and other advanced algorithms to increase DAF capability to save lives, mitigate resource loss, and continue DAF missions. -Will lead and manage the program through daily interaction with contractor and key stakeholders. -Will identify, monitor, mitigate, and report program and known risks associated with software and testing. <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> -Incorporate emergent near-real time all-domain sensor data and visualization into Common Operating Pictures (COPs). -Integrate sensors/drones to assess post incident/attack impacts regarding the surrounding community and installation infrastructure status - increase response/recovery actions while reducing risk to personnel. 	7.937	5.645	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> -Bridge Emergency Management (EM) related cross-domain (NIPR/SIPR) interoperable hazard/threat and effects data gaps between Local, State, Federal, Joint, and partner nations. -Continue with the extension of cross-domain capabilities to support full data synchronization between the NIPR and SIPR C2IMERA instances to facilitate the JADC2 construct. -Generate 3-Dimensional (3D) geospatial mapping. -Continue to support the Agile Dev Ops development of enhanced software and software architecture to make the system more scalable, add additional integrations and enhance data automation, and increase interoperability across CONUS and OCONUS DAF Installations. -Will lead and manage the program through daily interaction with contractor and key stakeholders. -Will identify, monitor, mitigate, and report program and <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding decreased due to development efforts not being supported in FY25+</p>			
Accomplishments/Planned Programs Subtotals	7.937	5.645	0.000

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

E. Acquisition Strategy
The acquisition strategy builds on agile software engineering methodologies and modernization of existing capabilities utilizing evolutionary acquisition. In FY21, the acquisition strategy transitioned to the Software Acquisition Pathway to support the continuous integration/continuous deliver (CI/CD) agile methodology. This program is part of the overarching Kessel Run portfolio and is dependent on support from the All Domain Common Platform (ADCP).

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force	Date: March 2024
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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

Software development	
DAF EMIS Software development	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Software development				
DAF EMIS Software development	1	2023	4	2028