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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 0305099F / <i>Global Air Traffic Management (GATM)</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	-	4.727	5.031	5.151	0.000	5.151	5.283	5.390	5.586	5.695	Continuing	Continuing
674689: <i>Global Access Architecture</i>	-	4.727	5.031	5.151	0.000	5.151	5.283	5.390	5.586	5.695	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program element funds the Air Force Life Cycle Management Center (AFLCMC) Aerospace Management Systems Division (AMSD), the designated Air Force (AF) Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) and Navigation Safety Center of Excellence (COE).

The COE provides centralized avionics expertise to Headquarters Air Force, AF Major Commands (MAJCOM), and weapon system program offices. This funding enables the COE to participate, influence, and vote in government and industry technical forums as well as U.S. and international civil aviation standards bodies such as the Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), Radio Technical Commission for Aeronautics (RTCA), the DoD Airlines Electronic Engineering Committee (AEEC) and others. These organizations are responsible for the development and assessment of international civil aviation standards for safe and efficient flight operations in worldwide airspace. This centralized CNS/ATM technical expertise capability supports all MAJCOMs and over 30 AF weapon system program offices.

The COE develops strategies to update and implement CNS/ATM capability requirements on AF weapon systems, as well as tailor the Generic Performance Matrix (GPM) to each airframe's unique avionics architecture and operational mission. Efforts include but are not limited to performance assessment, test support, performance monitoring, interoperability testing, cybersecurity assessments, and the development of CNS/ATM capabilities for unmanned platforms. Currently, the COE supports all AF Program Office work to modernize interfaces that support GPS M-Code, ARC-210 replacements, SATCOM upgrades, and performance based navigation.

The COE performs periodic and event driven audits of National Geospatial-Intelligence Agency (NGA) Digital Aeronautical Flight Information File (DAFIF). This electronic navigation database contains critical safety of flight information used by the majority of DoD flight crews to fly Instrument Flight Rules (IFR) procedures, safely navigate airways and fly Instrument Approach Procedures (IAPs) to civil and military airfields worldwide.

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, and 0606398F. In FY23 \$0.000 million was expended for civilian pay expenses in this program element, and in FY24 \$0.000 million is forecast for civilian pay 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.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	4.533	5.031	5.142	0.000	5.142
Current President's Budget	4.727	5.031	5.151	0.000	5.151
Total Adjustments	0.194	0.000	0.009	0.000	0.009
• 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	0.194	0.000	0.009	0.000	0.009
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025		
Title: CNS/ATM COE Administration of DoD Avionics Equipment Catalog (CNS/ATM II)	0.651	0.164	0.170		
Description: In accordance with AFPAM 63-129 Section 2.7.7 and AFI 63-101 Section 5.4.6.2, maintain a centralized pre-approved products CNS/ATM II Catalog for use by implementing aircraft SPOs to include but not limited to navigation safety avionics equipment/components, navigation data, and technical engineering services for numerous DoD, US Federal Agencies, and Foreign Military Sales program offices. Provide preferred customer pricing and extended warranty.					
FY 2024 Plans: Continue development and administration of the CNS/ATM II contract. Include new transponder products and SW capability updates.					
FY 2025 Plans: Continue maintenance, update and administration of the pre-approved products for the CNS/ATM II catalog to include but not limited to new transponder products and monitor Federal and Military CNS/ATM mandates.					
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased due to ramp up of CNS/ATM II efforts.					
Title: CNS/ATM COE Digital Aeronautical Flight Information File (DAFIF) Management	2.038	2.434	2.274		
Description: Perform periodic audits of the processes and procedures utilized by organizations involved in the development and distribution of critical safety of flight electronic databases used by aircrews to fly instrument flight rules procedures worldwide. Ensures the validity of multiple sources of information critical to implementation of international performance based navigation (PBN) standards.					

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Continuation of efforts with DoD agencies and the FAA to audit/certify electronic navigational databases and sources; and, develop performance based procedures required to operate without restriction in the National Airspace System (NAS) and in international civil aviation environments to include but not limited to publishing procedures and update databases to ensure accuracy/performance parameters necessary to operate manned and remotely piloted aircraft globally.</p> <p>FY 2025 Plans: Continue interface with DoD agencies and the FAA to audit/certify electronic navigational databases and develop performance-based procedures required to operate without restriction in the National Airspace System (NAS) and in international civil aviation environments necessary for manned and remotely piloted aircraft globally.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to reduced CNS/ATM COE DAFIF Management efforts.</p>				
<p>Title: CNS/ATM COE Standards Bodies Engagement and Generic Performance Matrix (GPM) Development</p> <p>Description: Participate in technical forums to understand and influence civil aviation standards and incorporate DoD interests to ensure safe and efficient access of AF manned and unmanned aircraft to the global airspace. Create new and/or revise GPMs used by AF platform program offices to ensure aircraft comply with civil aviation requirements. Tailor GPMs for program offices to apply standards to unique aircraft avionics architectures. Assist 30+ aircraft program offices with the development of CNS/ATM related test and evaluation plans, the analysis of test/performance data, and the assessment of aircraft CNS/ATM performance through preparation of a Performance Assessment Report (PAR).</p> <p>FY 2024 Plans: Continue development of generic and tailored performance matrices to ensure manned and remotely piloted aircraft are proficient and certified to operate safely and effectively in worldwide civil airspace in accordance with emerging performance-based CNS/ATM requirements to include but not limited to program office test and design reviews, analysis of test/performance data, and performance assessment reports.</p> <p>FY 2025 Plans: Continued development of generic and tailored performance matrices to ensure Air Force manned and remotely piloted aircraft are capable and certified to operate safely and efficiently in worldwide civil airspace in accordance with emerging performance based CNS/ATM requirements, test and design reviews, analysis of test/performance data, and performance assessment reports, and provide deliverable products to include but not limited to Technical Performance Matrices (TPM) or PAR.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		2.038	2.433	2.707

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding increased due to ramp up of CNS/ATM COE Standards Bodies Engagement and GPM Development activities.			
Accomplishments/Planned Programs Subtotals	4.727	5.031	5.151

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

N/A

Remarks

A strategic pause was implemented to the CNS/ATM Storefront due to FY 2023 funding reduction. The COE will re-assess future goals and plans for the application to adequately develop and sustain the Storefront in the FYDP.

E. Acquisition Strategy

This program provides contractor Advisory and Assistance Service (A&AS) and other technical experts support to the Air Force Life Cycle Management Center (AFLCMC) Aerospace Management Systems Division (AMSD), the designated Air Force (AF) Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) and Navigation Safety Center of Excellence (COE).

These services are acquired via the issuance of task/delivery orders against existing contractor support contract vehicles available to the CNS/ATM COE.

In accordance with AFPAM 63-129 Section 2.7.7 and AFI 63-101 Section 5.4.6.2, the CNS/ATM COE maintains a centralized Indefinite Delivery Indefinite Quantity (IDIQ) contract which contains pre-approved products for use by implementing aircraft SPOs. navigation safety avionics equipment/components, navigation data, and technical engineering services to support numerous DoD, US Federal Agencies, and Foreign Military Sales program offices.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0305099F / Global Air Traffic Management (GATM)				674689 / Global Access Architecture							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prime Contracts	C/CPAF	Not specified. : TBD	-	0.361	Oct 2022	0.065	Oct 2023	0.067	Oct 2024	-		0.067	Continuing	Continuing	-
Subtotal			-	0.361		0.065		0.067		-		0.067	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CNS/ATM Center of Excellence: Technical support for CNS/ATM requirement assessments, GPM development, DAFIF navigation data chain audits/certification, and CNS/ATM ID/IQ contract management.	C/T&M	MITRE : Bedford, MA	-	2.667	Oct 2022	2.771	Oct 2023	2.707	Oct 2024	-		2.707	Continuing	Continuing	-
CNS/ATM Center of Excellence: Technical support for operational requirement assessments, GPM development, DAFIF navigation data chain audits/certification, and CNS/ATM ID/IQ contract management.	C/CPFF	Oasis Systems : Lexington, MA	-	1.409	Jul 2023	2.095	Jul 2024	2.264	Jul 2025	-		2.264	Continuing	Continuing	-
Subtotal			-	4.076		4.866		4.971		-		4.971	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support Costs - (Contract Services)	C/T&M	Odyssey Systems : Lexington, MA	-	0.000	Jul 2023	-		0.000	Jul 2025	-		0.000	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305099F / <i>Global Air Traffic Management (GATM)</i>	Project (Number/Name) 674689 / <i>Global Access Architecture</i>

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

CNS/ATM COE	
Generic Performance Matrix Development	
DAFIF Management	
CNS/ATM iGATM II Contract Administration	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305099F / <i>Global Air Traffic Management (GATM)</i>	Project (Number/Name) 674689 / <i>Global Access Architecture</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CNS/ATM COE				
Generic Performance Matrix Development	3	2023	4	2029
DAFIF Management	3	2023	4	2029
CNS/ATM iGATM II Contract Administration	3	2023	2	2028