Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*

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	-	32.876	33.567	25.500	0.000	25.500	11.550	7.667	7.944	8.101	Continuing	Continuing
672832: *MEECN System Improvements*	-	1.023	1.047	1.073	0.000	1.073	1.099	0.008	0.008	0.008	Continuing	Continuing
672835: *Common VLF/LF Receiver Inc 2*	-	12.471	29.520	13.004	0.000	13.004	10.451	7.659	7.936	8.093	Continuing	Continuing
676030: *Global ASNT Inc 2*	-	19.382	3.000	11.423	0.000	11.423	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Nuclear Deterrence Operations (NDO) is an Air Force Core Function. Within this core function, Nuclear Command and Control (NC2) is the exercise of authority and direction by the President, as Commander in Chief, through established command lines, over nuclear weapon operations of military forces. The President's authority and direction are exercised through the Nuclear Command and Control System (NCCS). The NCCS is the designated combination of flexible and enduring elements including facilities, equipment, communications, procedures, personnel, and the structure in which these elements are integrated, all of which are essential for planning, directing, and controlling nuclear weapon operations.

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments.

MEECN System Improvements (MSI) is a long-range planning effort with users (Air Force Global Strike Command (AFGSC), Air Combat Command (ACC), United States Space Force (USSF), Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), US Strategic Command (USSTRATCOM), and the US Navy (USN)) to monitor and assess the performance of existing NC3 systems and develop recommendations for strategic and tactical architecture upgrades, requirements, and issues based on available and emerging technologies. MSI is used to conduct technology testing; analyze technology strategies; conduct requirement trade space analysis, technology maturation and risk reduction efforts, and mission analysis; and build technology roadmaps as proactive support to the NC3 community. MSI performs analysis, integration, and testing activities for the NC3 Weapon System.

The Common Very Low Frequency/Low Frequency (VLF/LF) Receiver (CVR) Increment 2 (CVRi2) Program will develop and produce a modular open systems approach (MOSA) compliant, advanced, adaptable VLF/LF receiver. As the USAF VLF receiver integrator, the VLF Enterprise Program Office will continue to be responsible for VLF sustainment to include configuration management of the CVR Increment 1 (CVRi1) material solution while also providing management support to the B-52 VLF Modernization Program for its procurement and production of the directed VLF receiver. The VLF Enterprise Program Office will provide the same management support to other legacy NC3 platforms' VLF receiver requirements. VLF Enterprise Program Office will also develop an acquisition strategy for adaptation of CVRi2 for the current and future NC3 platforms, while establishing an overarching contract to capture both development and production of CVRi2 for multiple NC3 platforms, which will enable enterprise level management of the VLF receivers for the current and future USAF airborne and ground-based NC3 platforms.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*

The total cost of the Common VLF Receiver Increment 2 Middle Tier of Acquisition effort is 122.1 million, including RDT&E and procurement of prototype units. The CVR Inc 2 RP program is not fully funded across the Future Years Defense Program. The Department of the Air Force is assessing all options to address the funding shortfalls for MTA programs including additional funding in a future budget request, performance trades based on technical maturity, or transition to alternative pathways.

This project 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 elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2023 0.188M was expended for civilian pay expenses in this project, and FY 2024 0.319M is forecasted for civilian pay expenses in this project. No FY 2025 civilian pay.

The Global Aircrew Strategic Network Terminal (Global ASNT) program replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces and Munitions Support Squadrons (MUNSS) and for Mobile Support Teams (MSTs). Global ASNT is a ground-based system that will provide survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminate them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.

Global ASNT Increment 1 (Inc 1) fields required Extremely High Frequency/Advanced Extremely High Frequency (EHF/AEHF) capabilities and replaces inadequate, unsustainable strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Secure, Mobile, Anti-Jam, Reliable, Tactical - Terminal (SMART-T) equipment. FY 2019 was the last year of RDT&E funding for Global ASNT Inc 1; development is complete, full rate production is in process, and fielding of terminals commenced in 2QFY22.

Global ASNT Increment 2 (Inc 2) Block 1 delivers a replacement Aircrew Alerting System (AAS) consisting of personal and general area alerting as well as Ultra High Frequency (UHF) line of sight (LOS) voice communications to bomber, tanker, and reconnaissance aircraft. Increment 2 replaces aging legacy Electromagnetic Pulse Hardened Dispersal Communication (EHDC) and Aircrew Alerting Communications Electromagnetic Pulse (AACE) systems.

Global ASNT Increment 2 (Inc 2) Block 2 delivers High Frequency (HF) Beyond Line of Sight (BLOS) communications to bomber, tanker, and reconnaissance aircraft.

The total cost of the Global ASNT Inc 2 Block 1 Middle Tier of Acquisition effort is 132.210M, including RDT&E and procurement of prototype units. The Global ASNT Inc 2 Block 1 is not fully funded across the Future Years Defense Program.

This project 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 elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. No FY 2024 or FY 2025 civilian pay is planned.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*

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	35.548	33.567	13.535	0.000	13.535
Current President's Budget	32.876	33.567	25.500	0.000	25.500
Total Adjustments	-2.672	0.000	11.965	0.000	11.965
• 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	-1.566	0.000			
• SBIR/STTR Transfer	-1.106	0.000			
• Other Adjustments	0.000	0.000	11.965	0.000	11.965

Change Summary Explanation

FY 2023: (-1.106M) SBIR Reduction and (-1.566M) for AF FY 23-80 PA September 2023 reprogramming
FY 2025: (+23.423M) AF internal realignment and (-11.457M) Reduced due to higher Air Force priorities

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) 672832 / *MEECN System Improvements*	

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
672832: *MEECN System Improvements*	-	1.023	1.047	1.073	0.000	1.073	1.099	0.008	0.008	0.008	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

MSI is a long-range planning effort with users [Air Force Global Strike Command (AFGSC), Air Combat Command (ACC), United States Space Force (USSF), Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), US Strategic Command (USSTRATCOM), and the US Navy] to monitor and assess the performance of existing NC3 systems and develop recommendations for strategic and tactical architecture upgrades, requirements, and issues based on available and emerging technologies. MSI is used to conduct technology testing; analyze technology strategies; conduct requirement trade space analyses, technology maturation and risk reduction efforts, mission analysis; and build technology Roadmaps as proactive support to the NC3 community. MSI performs analysis, integration, and testing activities for the NC3 Weapon System.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: MEECN System Improvements	1.023	1.047	1.073
Description: MSI is used to conduct technology testing, analyze technology strategies, conduct requirement trade space analyses, technology maturation, risk reduction efforts mission analyses, and build technology Roadmaps as proactive support to the NC3 community. MSI may also be used to execute test bed activities and exercise participation related to NC3 integration into Advanced Battle Management System (ABMS) and Joint All-Domain Command and Control (JADC2) demonstrations and execute contracts in support of next generation NC3 systems and sub-systems. ***FY 2024 Plans:*** - Complete the annual MSI Summary Report - Perform analysis of engineering issues and technology insertion - Perform analysis, integration, and testing activities - Conduct studies and analysis for the assessment and modernization of the AF NC3 Weapon System (AN/USQ-225) - Conduct analysis of the performance/condition of NC3 platforms' VLF receiver Group A elements [e.g., antennas, power source, cabling/wiring, human machine interface (HMI), etc.] - Develop messaging, waveform, mode, and system standards and documentation - Conduct studies, analysis, proof-of-concept, and prototyping for the assessment and modernization of the AF NC3 Weapon System (AN/USQ-225) - Conduct the second phase of an in-depth cybersecurity evaluation of the fielded VLF receiver - Conduct studies, analyses, and evaluations of the HF/DHF/AEHF NC3 Capabilities			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672832 / *MEECN System Improvements*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
- Perform characterization of fielded legacy VLF receive capability; identify strategies/tools for mitigating electromagnetic interference to improve reception - Modeling and Simulation to support assessments of legacy and future VLF system effectiveness in disturbed environments at maximum range ***FY 2025 Plans:*** - Complete the annual MSI Summary Report - Conduct analysis of the performance/condition of prototype VLF configuration on tankers - Modeling and simulation of next-generation VLF relay systems to support evolving NC3 CONOPs - Conduct analysis and identify means of improving transmission and receipt of VLF messages in NC3 exercise events - Conduct analysis and identify means of integrating VLF receive capabilities into current or soon-to-be-fielded Software Defined Radios (SDRs) - Conduct analysis and identify potential VLF transmit and receive capabilities of existing antennas by modifying existing aircraft installation designs and leveraging novel electromagnetic effects to enhance performance of existing antennas - Develop messaging, waveform, mode, and system standards and documentation including OMS/UCI and SOSA - Conduct studies, analysis, proof-of-concept, and prototyping for the assessment and modernization of the AF NC3 Weapon System (AN/USQ-225) - Conduct the third (final) phase of an in-depth cybersecurity evaluation of the fielded VLF receiver - Connectivity Studies: Update the 2023 NC3 Connectivity Study - Conduct studies, analyses, and evaluations of the HF/DHF/AEHF NC3 Capabilities ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase due to inflation			
Accomplishments/Planned Programs Subtotals	1.023	1.047	1.073

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

MSI will continue to evaluate the performance of the NC3 Weapon System by assessing performance and technology areas for improvement with the assistance of expert technical support from Federally Funded Research and Development Centers (FFRDCs) and University Affiliated Research Centers (UARCs) [e.g. MITRE, Massachusetts Institute of Technology (MIT) Lincoln Labs, and Johns Hopkins University/Applied Physics Laboratory (JHU/APL), etc.]. It may also include competitively awarded technical support contracts with industry and/or academia.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) 672832 / *MEECN System Improvements*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
MSI NC3 Roadmap / NC3 Connectivity Performances Update Cybersecurity Evaluation	Various	JHU/APL - Laurel, MD : Laurel, MD	-	0.675	Mar 2023	0.797	Jan 2024	0.803	Dec 2024	-		0.803	Continuing	Continuing	0.000
		Subtotal	-	0.675		0.797		0.803		-		0.803	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support	Various	Various : Various	-	0.342	Mar 2023	0.250	Mar 2024	0.270	Mar 2025	-		0.270	Continuing	Continuing	-
		Subtotal	-	0.342		0.250		0.270		-		0.270	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
MSI PSC (Eng/Acq Spt/ Travel/IMPAC)	Various	Various : Various	-	0.006	Feb 2024	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	-	0.006		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	1.023		1.047		1.073		-		1.073	Continuing	Continuing	N/A

Remarks

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 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672832 / *MEECN System Improvements*

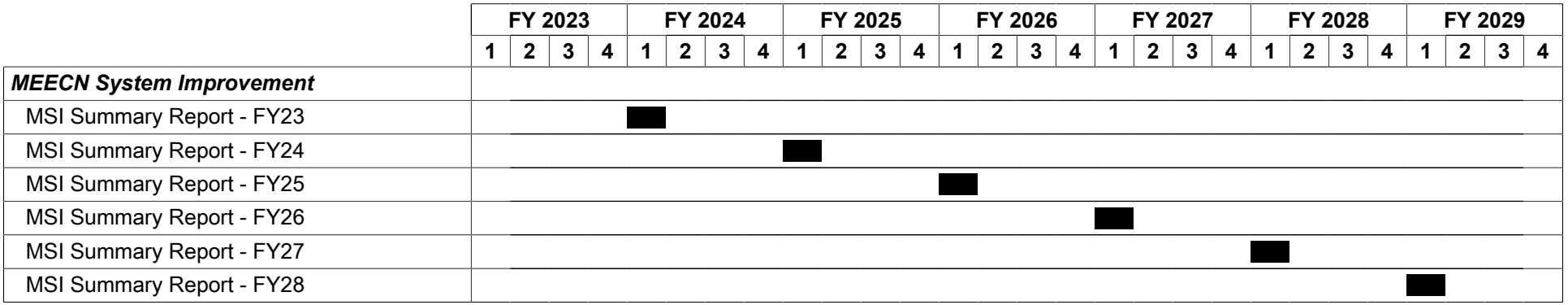

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672832 / *MEECN System Improvements*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
MEECN System Improvement				
MSI Summary Report - FY23	1	2024	1	2024
MSI Summary Report - FY24	1	2025	1	2025
MSI Summary Report - FY25	1	2026	1	2026
MSI Summary Report - FY26	1	2027	1	2027
MSI Summary Report - FY27	1	2028	1	2028
MSI Summary Report - FY28	1	2029	1	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) 672835 / *Common VLF/LF Receiver Inc 2*	

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
672835: *Common VLF/LF Receiver Inc 2*	-	12.471	29.520	13.004	0.000	13.004	10.451	7.659	7.936	8.093	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Common Very Low Frequency/Low Frequency (VLF/LF) Receiver (CVR) Increment 2 (CVRi2) Program will develop and produce a modular open systems approach (MOSA) compliant, advanced, adaptable VLF/LF receiver. As the USAF VLF receiver integrator, the VLF Enterprise Program Office will continue to be responsible for VLF sustainment to include configuration management of the CVR Increment 1 (CVRi1) materiel solution while also providing management support to the B-52 VLF Modernization Program for its procurement and production of the directed VLF receiver. The VLF Enterprise Program Office will provide the same management support to other legacy NC3 platforms' VLF receiver requirements. VLF Enterprise Program Office will also develop an acquisition strategy for adaptation of CVRi2 for the current and future NC3 platforms, while establishing an overarching contract to capture both development and production of CVRi2 for multiple NC3 platforms, which will enable enterprise level management of the VLF receivers for the current and future USAF airborne and ground-based NC3 platforms.

The total cost of the CVRi2 Middle Tier of Acquisition effort is $122.089M, including RDT&E and procurement of prototype units. CVRi2 is not fully funded across the Future Years Defense Program. The Department of the Air Force is assessing all options to address the funding shortfalls for MTA programs including additional funding in a future budget request, performance trades based on technical maturity, or transition to alternative pathways.

This project 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 elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 $0.188M was expended for civilian pay expenses in this project, and FY2024 $0.319M is forecasted for civilian pay expenses in this project. No FY25 civilian pay.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: CVR Inc 2	12.471	29.520	13.004
Description: Post-award of delivery order for prototype development employing a Middle Tier Acquisition (MTA) approach. ***FY 2024 Plans:*** - Complete CVRi2 Preliminary Design Review (PDR) - Complete CVRi2 Critical Design Review (CDR) - Deliver CVRi2 engineering design models (EDMs) to lead platform - Complete studies to develop/adapt CVRi2 for airborne and ground-based NC3 platforms - Complete market research for CVRi2 follow-on acquisition			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672835 / *Common VLF/LF Receiver Inc 2*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
- Complete Acquisition Strategy Panel for CVRi2 follow-on acquisition ***FY 2025 Plans:*** - Complete Test Readiness Review (TRR) - Complete Contractor Developmental Test and Evaluation (DT&E) - Complete Functional Configuration Audit (FCA) and Production Configuration Audit (PCA) - CVRi2 Operational Demonstration - Deliver CVRi2 Production Representative Model (PRM) to the lead platform - Award CVRi2 follow-on acquisition contract ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY24 to FY25 funding decrease due to planned progression through CVRi2 Rapid Prototyping Effort and a decrease due to $11.483M reduction to fund higher Air Force priorities.			
Accomplishments/Planned Programs Subtotals	12.471	29.520	13.004

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• APAF 05 0303131F: *CVR i2*	0.000	0.000	0.000	-	0.000	12.204	10.193	5.224	5.329	Continuing	Continuing

Remarks

N/A

D. Acquisition Strategy

Employing a Middle Tier Acquisition (MTA) Rapid Prototyping (RP) approach, CVR Inc 2 used the Advanced Battle Management Systems (ABMS) Indefinite Delivery/ Indefinite Quantity (IDIQ) to release a fair opportunity proposal request (FOPR). After the Fair Opportunity Team (FOT) evaluation and recommendation, the Fair Opportunity Decision Authority (FODA) awarded Collins Aerospace a delivery order (DO) to develop a Modular Open Systems Approach (MOSA) - compliant, advanced VLF/LF receiver prototype. The CVRi2 is being developed to meet the lead platform requirement and will be adaptable to other follow-on NC3 platforms. The program will remain flexible to apply delta changes to the follow-on NC3 platforms as directed.

The RP phase will result in production representative model (PRM) prototypes and conclude with a successful demonstration of the prototype in an operationally relevant environment. The Program will then transition to either a Milestone C or an MTA Rapid Fielding (RF) phase to compete a contract for production and fielding to meet the lead and follow-on platforms' timeline requirements. Per the approved Acquisition Strategy, the Program will present an Acquisition Strategy Panel (ASP) for Production and Fielding to AFPEO NC3 for a production decision.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672835 / *Common VLF/LF Receiver Inc 2*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Early Development (TMRR/prototyping)	C/CPFF	Rockwell Collins Inc : Cedar Rapids, IA	-	10.820	Mar 2023	18.821	Jan 2024	2.932	Oct 2024	-		2.932	Continuing	Continuing	-
Prime Contract ECOs	Various	Various : TBD	-	0.000	Jan 2024	0.150	Mar 2024	1.156	May 2025	-		1.156	Continuing	Continuing	-
MITRE (DMS)	Various	Cost : Bedford, MA	-	0.000	Oct 2022	2.645	Oct 2023	2.408	Oct 2024	-		2.408	Continuing	Continuing	-
GFE	Various	Various : Various	-	0.001	Jan 2023	0.107	Nov 2023	0.000		-		0.000	Continuing	Continuing	-
NSA Certification	Various	Various : Fort Meade, MD	-	0.000	Sep 2023	0.260	Dec 2023	0.170	Oct 2024	-		0.170	Continuing	Continuing	-
		Subtotal	-	10.821		21.983		6.666		-		6.666	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Direct Cite Civilian Pay	Various	Various : Hanscom, MA	-	0.188	Sep 2023	0.319	Sep 2024	-		-		-	Continuing	Continuing	-
		Subtotal	-	0.188		0.319		-		-		-	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	C/CPAF	96th Test Wing : Eglin AFB	-	0.572	Aug 2023	0.703	Nov 2023	0.384	Nov 2024	-		0.384	Continuing	Continuing	-
		Subtotal	-	0.572		0.703		0.384		-		0.384	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672835 / *Common VLF/LF Receiver Inc 2*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PSC (Eng/Acq Spt/Travel/ IMPAC)	Various	Various : Hanscom, MA	-	0.143	Apr 2023	3.183	Nov 2023	2.814	Oct 2024	-		2.814	Continuing	Continuing	-
MITRE (PSC)	Various	Various : Bedford, MA	-	0.747	Jun 2023	3.332	Nov 2023	3.140	Oct 2024	-		3.140	Continuing	Continuing	-
		Subtotal	-	0.890		6.515		5.954		-		5.954	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	12.471		29.520		13.004		-		13.004	Continuing	Continuing	N/A

Remarks

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 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672835 / *Common VLF/LF Receiver Inc 2*

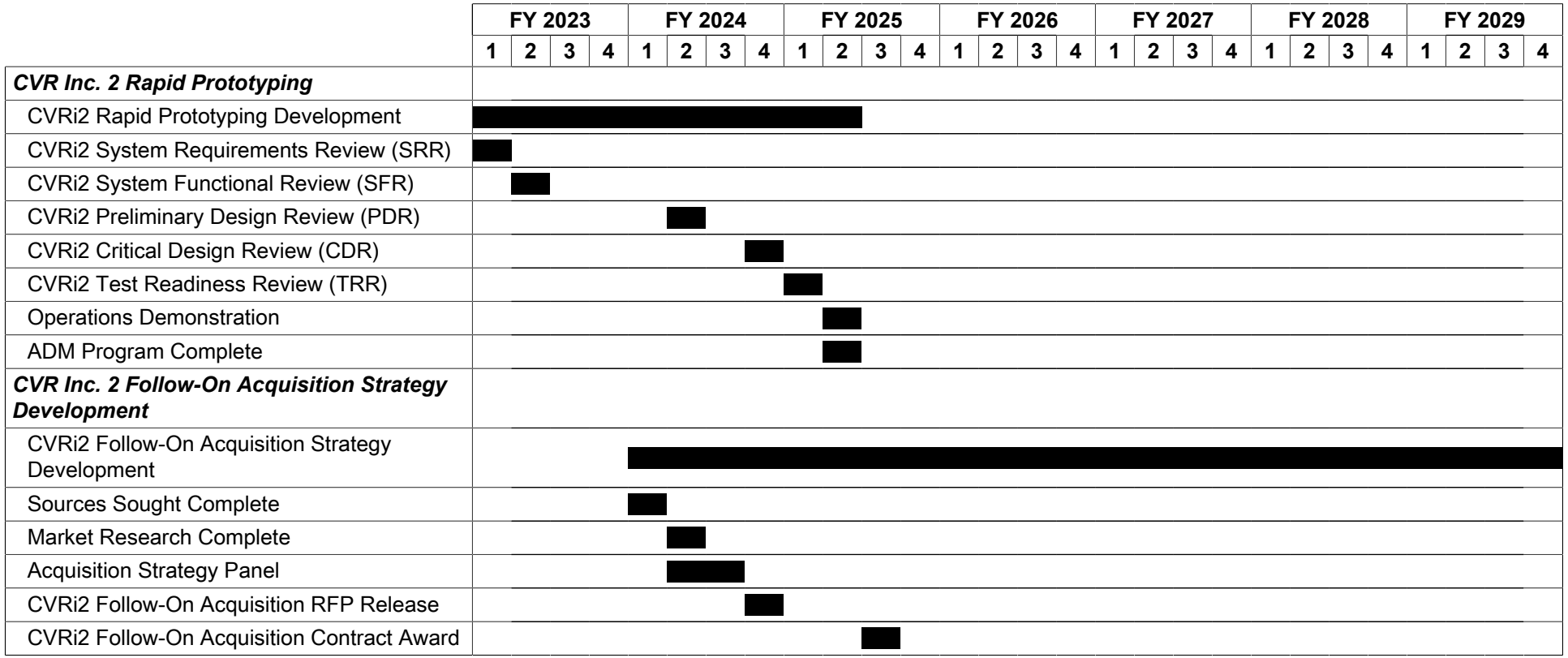

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 672835 / *Common VLF/LF Receiver Inc 2*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
CVR Inc. 2 Rapid Prototyping				
CVRi2 Rapid Prototyping Development	1	2023	2	2025
CVRi2 System Requirements Review (SRR)	1	2023	1	2023
CVRi2 System Functional Review (SFR)	2	2023	2	2023
CVRi2 Preliminary Design Review (PDR)	2	2024	2	2024
CVRi2 Critical Design Review (CDR)	4	2024	4	2024
CVRi2 Test Readiness Review (TRR)	1	2025	1	2025
Operations Demonstration	2	2025	2	2025
ADM Program Complete	2	2025	2	2025
CVR Inc. 2 Follow-On Acquisition Strategy Development				
CVRi2 Follow-On Acquisition Strategy Development	1	2024	4	2029
Sources Sought Complete	1	2024	1	2024
Market Research Complete	2	2024	2	2024
Acquisition Strategy Panel	2	2024	3	2024
CVRi2 Follow-On Acquisition RFP Release	4	2024	4	2024
CVRi2 Follow-On Acquisition Contract Award	3	2025	3	2025

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) 676030 / *Global ASNT Inc 2*	

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
676030: *Global ASNT Inc 2*	-	19.382	3.000	11.423	0.000	11.423	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Global ASNT Increment 2 (Inc 2) replaces aging legacy strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces, Munitions Support Squadrons (MUNSS), and Mobile Support Teams (MSTs). Global ASNT Inc 2 is a ground-based system that will provide survivable, secure communication paths to disseminate Emergency Action Messages (EAMs) to bomber, tanker, and reconnaissance aircrews.

Global ASNT Inc 2 is being fielded in 2 separate capability incremental blocks; both blocks are High-Altitude Electro-Magnetic Pulse (HEMP) and Radiation Hazard (RADHAZ) protected.

Global ASNT Inc 2 Block 1 delivers a replacement Aircrew Alerting System (AAS) consisting of Ultra High Frequency (UHF) personal and general alerting equipment replacing EHDC and AACE systems.

Global ASNT Inc 2 Block 2 provides High Frequency (HF) capabilities for Beyond Line of Sight (BLOS), communications to bomber, tanker and reconnaissance aircraft. Global ASNT Inc 2 Block 2 requirements were approved by Air Force Global Strike Command in December 2023.

The total cost of the Global Aircrew Strategic Network Terminal Increment 2 Middle Tier of Acquisition effort is 132.2 million, including RDT&E and procurement of prototype units. The Global ASNT Inc 2 RP program is fully funded across the Future Years Defense Program.

This program element may include necessary revised Security Classification Guide (SCG) implementation activities.

This project 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 elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. No FY24 or 25 civilian pay is planned.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Global ASNT Inc 2	19.382	3.000	11.423
Description: Middle Tier Acquisition - Rapid Prototyping			
FY 2024 Plans: - Block 1: Qual Unit Builds			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 676030 / *Global ASNT Inc 2*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
- Block 1: 70% Technical Orders (TO) submittal - Block 1: Build and complete Training packages - Block 1: HEMP Critical Design Review (CDR) - Block 1: HEMP Test Readiness Review (TRR) ***FY 2025 Plans:*** - Block 1: HEMP Environmental Testing - Block 1: HEMP Developmental Testing - Block 1: HEMP Operational Test - Block 2: Conduct Acquisition Strategy Panel (ASP) - Block 2: Release Request for Proposal (RFP) ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increased due to additional funding required to complete GASNTi2 Mid-Tier Acquisition (MTA) efforts.			
Accomplishments/Planned Programs Subtotals	19.382	3.000	11.423

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• OPAF 05 0303131F: *Minimum Essential Emergency Communications Network (MEECN)*	13.094	40.760	33.909	-	33.909	95.920	38.262	17.732	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

Global ASNT Inc 2 Block 1 is leveraging the Rapid Prototyping MTA pathway for development and the program plans to transition to a Rapid Fielding MTA.

Global ASNT Inc 2 Block 2 is evaluating use of Rapid Prototyping MTA pathway for development.

Pending success of Block 1, Block 2 will utilize the same MTA Prototype acquisition approach to continue rapid development and delivery of capabilities to the warfighter.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 676030 / *Global ASNT Inc 2*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/CPAF	Various : Bedford, MA	-	12.013	Feb 2023	1.275	Apr 2024	6.772	Oct 2024	-		6.772	Continuing	Continuing	-
		Subtotal	-	12.013		1.275		6.772		-		6.772	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Direct Cite Civilian Pay	Various	Various : Bedford, MA	-	0.149	Oct 2022	-		-		-		-	Continuing	Continuing	-
Information Assurance	SS/CPAF	Booz Allen Hamilton : Bedford, MA	-	0.115	Jul 2023	0.014	Jul 2024	0.094	Oct 2024	-		0.094	Continuing	Continuing	-
		Subtotal	-	0.264		0.014		0.094		-		0.094	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Planning	PO	96 TW : Eglin AFB, FL	-	0.518	Jun 2023	0.793	Jun 2024	0.921	Nov 2024	-		0.921	Continuing	Continuing	-
		Subtotal	-	0.518		0.793		0.921		-		0.921	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PSC - (Eng/Acq Support, Travel)	C/CPAF	Various : Bedford, MA	-	6.087	Apr 2023	0.418	Apr 2024	1.641	Apr 2025	-		1.641	Continuing	Continuing	-
PSC-MITRE	C/CPAF	Not specified. : TBD	-	0.500	Oct 2022	0.500	Oct 2023	1.995	Oct 2024	-		1.995	Continuing	Continuing	-
		Subtotal	-	6.587		0.918		3.636		-		3.636	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) 676030 / *Global ASNT Inc 2*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	19.382		3.000		11.423		-		11.423	Continuing	Continuing	N/A

Remarks

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 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 676030 / *Global ASNT Inc 2*

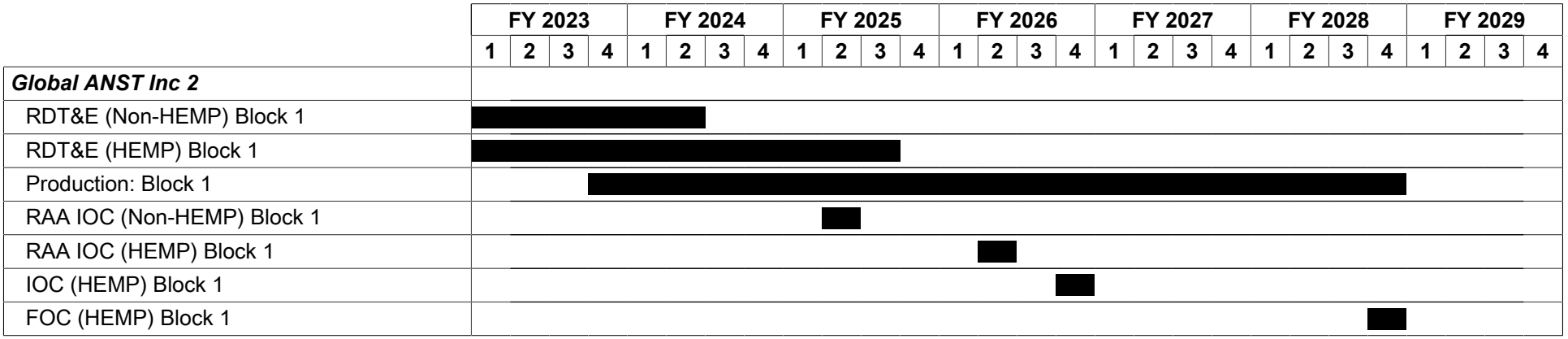

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0303131F / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** 676030 / *Global ASNT Inc 2*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Global ANST Inc 2				
RDT&E (Non-HEMP) Block 1	1	2023	2	2024
RDT&E (HEMP) Block 1	1	2023	3	2025
Production: Block 1	4	2023	4	2028
RAA IOC (Non-HEMP) Block 1	2	2025	2	2025
RAA IOC (HEMP) Block 1	2	2026	2	2026
IOC (HEMP) Block 1	4	2026	4	2026
FOC (HEMP) Block 1	4	2028	4	2028