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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

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 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	51.681	35.548	33.567	0.000	33.567	13.535	11.530	7.653	7.930	Continuing	Continuing
672832: <i>MEECN System Improvements</i>	-	0.971	1.023	1.047	0.000	1.047	1.071	1.097	0.008	0.008	Continuing	Continuing
672835: <i>Common VLF/LF Receiver Inc 2</i>	-	31.981	15.143	29.520	0.000	29.520	12.464	10.433	7.645	7.922	Continuing	Continuing
676030: <i>Global ASNT Inc 2</i>	-	18.729	19.382	3.000	0.000	3.000	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) 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.

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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 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>
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The total cost of the CVR Inc 2 Middle Tier of Acquisition effort is 103.81 million, including RDT&E. The CVR Inc 2 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 FY2022 0.208M was expended for civilian pay expenses in this project, and FY2023 1.399M is forecasted for civilian pay expenses in this project.

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. FY19 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.

The total cost of the Global ASNT Inc 2 Middle Tier of Acquisition effort is 104.90 million, including RDT&E and procurement of prototype units. The Global ASNT Inc 2 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 FY22 0.000M was expended for civilian pay expenses in this project, and in FY23 1.263M is forecasted for civilian pay expenses in this project.

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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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

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 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>
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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	58.165	41.171	11.754	0.000	11.754
Current President's Budget	51.681	35.548	33.567	0.000	33.567
Total Adjustments	-6.484	-5.623	21.813	0.000	21.813
• Congressional General Reductions	0.000	-5.623			
• 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	-4.944	0.000			
• SBIR/STTR Transfer	-1.540	0.000			
• Other Adjustments	0.000	0.000	21.813	0.000	21.813

Change Summary Explanation

FY22: AF FY22-51 PA DoD FY22-11 PA reprogramming decrease of -8.744M, reprogramming add of 3.800M for MEECN V2 and SBIR Reduction of -1.540M

FY23: Congressional Directed Reduction for FFRDC of -5.623M

FY24: Properly phased 11.813M to Global ASNTi2 and 10.000M add for CVRi2

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>				Project (Number/Name) 672832 / <i>MEECN System Improvements</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
672832: <i>MEECN System Improvements</i>	-	0.971	1.023	1.047	0.000	1.047	1.071	1.097	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 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.

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 FY22 \$0.0M was expended for civilian pay expenses in this program element, and in FY23 \$0.0M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024
Title: MEECN System Improvements	0.971	1.023	1.047
Description: 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 may also be used to execute test bed activities and exercise participation related to Advanced Battle Management System (ABMS) and JADC2 demonstrations and execute contracts in support of next generation NC3 systems and sub-systems			
FY 2023 Plans:			
- Complete MSI Summary Report			
- Perform analysis of engineering issues and technology insertion			
- Evaluate integrated technology, representative modes, and prototype systems			
- Perform analysis, integration, and testing activities			
- Conduct NC3 Connectivity Performances updates			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672832 / <i>MEECN System Improvements</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<ul style="list-style-type: none"> - Conduct first phase of an in-depth cybersecurity evaluation of the VLF receiver as fielded <p><i>FY 2024 Plans:</i></p> <ul style="list-style-type: none"> - Complete 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 second phase of an in-depth cybersecurity evaluation of the VLF receiver as fielded <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding increased due to inflation</p>			
Accomplishments/Planned Programs Subtotals	0.971	1.023	1.047

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 FFRDCs and UARCs [MITRE, Massachusetts Institute of Technology (MIT) Lincoln Labs, Johns Hopkins University/Applied Physics Laboratory (JHU/APL) and Georgia Tech Research Institute (GTRI)]. It may also include competitively awarded technical support contracts with industry and/or academia.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672832 / <i>MEECN System Improvements</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
MSI NC3 Roadmap / NC3 Connectivity Performances Update Cybersecurity Evaluation	Various	JHU/APL - Laurel, MD : Laurel, MD	-	0.374	Feb 2022	0.675	Mar 2023	0.754	Mar 2024	-		0.754	Continuing	Continuing	0.000
Antenna Study	Various	MIT/LL - Lexington, MA : Lexington, MA	-	0.400	Mar 2022	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.774		0.675		0.754		-		0.754	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Support	Various	Various : Various	-	0.197	Apr 2022	0.345	Dec 2022	0.290	Apr 2023	-		0.290	Continuing	Continuing	-
Subtotal			-	0.197		0.345		0.290		-		0.290	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
MSI PSC (Eng/Acq Spt/Travel/IMPAC)	Various	Various : Various	-	0.000	Mar 2022	0.003	Jan 2023	0.003	Jan 2024	-		0.003	Continuing	Continuing	0.000
Subtotal			-	0.000		0.003		0.003		-		0.003	Continuing	Continuing	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.971	1.023	1.047	-	1.047	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672832 / <i>MEECN System Improvements</i>

	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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

<i>MEECN System Improvement</i>																												
MEECN System Improvement																												
MSI Summary Report - FY22																												
MSI Summary Report - FY23																												
MSI Summary Report - FY24																												
MSI Summary Report - FY25																												
MSI Summary Report - FY26																												
MSI Summary Report - FY27																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672832 / <i>MEECN System Improvements</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MEECN System Improvement</i>				
MEECN System Improvement	1	2022	4	2027
MSI Summary Report - FY22	1	2023	1	2023
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

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>				Project (Number/Name) 672835 / <i>Common VLF/LF Receiver Inc 2</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
672835: <i>Common VLF/LF Receiver Inc 2</i>	-	31.981	15.143	29.520	0.000	29.520	12.464	10.433	7.645	7.922	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.

The total cost of the CVRi2 Middle Tier of Acquisition effort is 103.81M million, 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 FY2022 0.208M was expended for civilian pay expenses in this project, and FY2023 1.399M is forecasted for civilian pay expenses in this project.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024
Title: CVR Inc 2	31.981	15.143	29.520
Description: Post-award of delivery order for prototype development employing a Middle Tier Acquisition (MTA) approach.			
FY 2023 Plans:			
- Continue development of the modular open systems approach (MOSA) compliant, advanced, adaptable VLF/LF receiver			
- Hold CVRi2 Reviews: System Requirements Review (SRR), System Functional Review (SFR), and Preliminary Design Review (PDR)			
- Provide CVRi2 digital models to lead platform program for its Milestone B/Contract Award			
- Conduct studies for ICBM programs			
FY 2024 Plans:			
- Hold CVRi2 Critical Design Review (CDR)			
- Provide CVRi2 engineering design models (EDMs) to lead platform			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672835 / <i>Common VLF/LF Receiver Inc 2</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
- Complete studies to develop/adapt CVRi2 for follow on NC3 platforms ICBM forces			
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding increased to support Middle Tier Acquisition (MTA) effort/contract award, to provide upgraded modular open systems approach (MOSA) compliant, advanced, adaptable VLF/LF receiver in order to meet user requirements.			
Accomplishments/Planned Programs Subtotals	31.981	15.143	29.520

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APAF 05 0303131F: CVR i2	0.000	0.000	0.000	-	0.000	0.000	12.181	10.175	5.215	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) Broad Area Announcement (BAA) 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 an Open Systems Architecture (OSA)- compliant, advanced VLF/LF receiver prototype. The Survivable Airborne Operations Center (SAOC) is the lead platform, and the system will be adaptable to other platforms. The Program will propose inclusion of other follow on platforms to the AFPEONC3. 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 SAOC and following 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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672835 / <i>Common VLF/LF Receiver Inc 2</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Early Development (TMRR/prototyping)	C/CPFF	Rockwell Collins Inc : Cedar Rapids, IA	-	22.126	Jul 2022	10.276	Jun 2023	16.251	Feb 2024	-		16.251	Continuing	Continuing	-
Prime Contract ECOs	Various	Various : TBD	-	0.000	Jun 2022	0.000	Jan 2024	1.217	Mar 2024	-		1.217	Continuing	Continuing	-
MITRE (DMS)	Various	Cost : Bedford, MA	-	2.920	Oct 2021	0.000	Oct 2022	2.409	Oct 2023	-		2.409	Continuing	Continuing	-
GFE	Various	Various : Various	-	0.047	Aug 2022	0.000	Apr 2023	-		-		-	Continuing	Continuing	-
NSA Certification	Various	Various : Fort Meade, MD	-	0.065	Aug 2022	0.065	Aug 2023	0.187	Feb 2024	-		0.187	Continuing	Continuing	-
Subtotal			-	25.158		10.341		20.064		-		20.064	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Direct Cite Civilian Pay	Various	Various : Hanscom, MA	-	0.208	Sep 2022	1.399	Sep 2023	0.440	Sep 2024	-		0.440	Continuing	Continuing	-
Subtotal			-	0.208		1.399		0.440		-		0.440	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Test and Evaluation	C/CPAF	96th Test Wing : Eglin AFB	-	0.775	Jul 2023	0.000	Feb 2024	0.535	Jul 2024	-		0.535	Continuing	Continuing	-
Subtotal			-	0.775		0.000		0.535		-		0.535	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672835 / <i>Common VLF/LF Receiver Inc 2</i>

	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
CVR Inc. 2																												
CVRi2 MTA ASP Rapid Prototyping	■																											
New WF Interoperability Demonstration		■	■	■																								
Fair Opportunity Proposal Request Release		■																										
CVRi2 Receive Proposals		■																										
CVRi2 Proposal Evaluation			■	■																								
CVRi2 Delivery Order Award				■																								
ADM Program Start				■																								
CVRi2 Rapid Prototyping Development			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
CVRi2 System Requirements Review (SRR)					■	■																						
CVRi2 System Functional Review (SFR)						■	■																					
CVRi2 Preliminary Design Review (PDR)								■	■																			
CVRi2 Critical Design Review (CDR)										■	■																	
Technical Readiness												■	■															
Operations Demonstration														■	■													
ADM Program Complete															■	■												

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 672835 / <i>Common VLF/LF Receiver Inc 2</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>CVR Inc. 2</i>				
CVRI2 MTA ASP Rapid Prototyping	1	2022	1	2022
New WF Interoperability Demonstration	2	2022	3	2022
Fair Opportunity Proposal Request Release	2	2022	2	2022
CVRI2 Receive Proposals	2	2022	2	2022
CVRI2 Proposal Evaluation	3	2022	4	2022
CVRI2 Delivery Order Award	4	2022	4	2022
ADM Program Start	4	2022	4	2022
CVRI2 Rapid Prototyping Development	4	2022	4	2025
CVRI2 System Requirements Review (SRR)	1	2023	1	2023
CVRI2 System Functional Review (SFR)	2	2023	2	2023
CVRI2 Preliminary Design Review (PDR)	4	2023	4	2023
CVRI2 Critical Design Review (CDR)	3	2024	3	2024
Technical Readiness	4	2024	4	2024
Operations Demonstration	2	2025	2	2025
ADM Program Complete	2	2025	2	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 676030 / <i>Global ASNT Inc 2</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
676030: <i>Global ASNT Inc 2</i>	-	18.729	19.382	3.000	0.000	3.000	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 3 separate capability incremental blocks; all 3 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 Blocks 2 and 3 provide High Frequency (HF) capabilities and other enhancements, Block 2 and 3 requirements are currently deferred to focus on the highest priority needs.

The total cost of the Global ASNT Inc 2 Middle Tier of Acquisition effort is 120.3 million, including RDT&E and procurement of prototype units. Global ASNT Inc 2 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 FY22 0.000M was expended for civilian pay expenses in this project, and in FY23 1.263M is forecasted for civilian pay expenses in this project.

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

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024
Title: Global ASNT Inc 2, Block 1	18.729	19.382	3.000
Description: Middle Tier Acquisition - Rapid Prototyping			
FY 2023 Plans:			
- Non-HEMP Environmental Testing			
- Non-HEMP Developmental Testing			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 676030 / <i>Global ASNT Inc 2</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
- Non-HEMP Operational Demonstration - HEMP Preliminary Design Review (PDR) <i>FY 2024 Plans:</i> - HEMP Critical Design Review (CDR) - HEMP Environmental Testing <i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Decrease in funds due to transition from development to procurement activities.			
Accomplishments/Planned Programs Subtotals	18.729	19.382	3.000

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 05 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	0.000	13.094	40.760	-	40.760	81.799	54.569	0.000	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.

 Pending success of Block 1, Blocks 2 and 3 will utilize the same MTA Prototype acquisition approach to continue rapid development and delivery of capabilities to the warfighter.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0303131F / Minimum Essential Emergency Communications Network (MEECN)				676030 / Global ASNT Inc 2							
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Product Development	C/CPAF	Various : Bedford, MA	-	12.412	Dec 2021	11.307	Jul 2023	3.000	Jan 2024	-		3.000	Continuing	Continuing	-
Subtotal			-	12.412		11.307		3.000		-		3.000	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Direct Cite Civilian Pay	Various	Various : Bedford, MA	-	0.000	Oct 2021	1.263	Oct 2022	-		-		-	Continuing	Continuing	-
Information Assurance	SS/CPAF	Booz Allen Hamilton : Bedford, MA	-	0.167	May 2022	0.085	May 2023	-		-		-	Continuing	Continuing	-
Subtotal			-	0.167		1.348		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Test Planning	PO	96 TW : Eglin AFB, FL	-	0.861	Mar 2022	1.316	Jan 2023	-		-		-	Continuing	Continuing	-
Subtotal			-	0.861		1.316		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
PSC - (Eng/Acq Support, Travel)	C/CPAF	Various : Bedford, MA	-	2.751	Apr 2022	2.724	Apr 2023	-		-		-	Continuing	Continuing	-
PSC-MITRE	C/CPAF	Not specified. : TBD	-	2.538	Oct 2021	2.687	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			-	5.289		5.411		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force							Date: March 2023				
Appropriation/Budget Activity 3600 / 7			R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>				Project (Number/Name) 676030 / <i>Global ASNT Inc 2</i>				
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	-	18.729	19.382	3.000	-	3.000	Continuing	Continuing	N/A		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 676030 / <i>Global ASNT Inc 2</i>

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

Global ANST Inc 2	
RDT&E (Non-HEMP)	
RDT&E (HEMP)	
Production	
RAA IOC (Non-HEMP)	
RAA IOC (HEMP)	
RAA FOC (HEMP)	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303131F / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) 676030 / <i>Global ASNT Inc 2</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Global ANST Inc 2				
RDT&E (Non-HEMP)	1	2022	3	2023
RDT&E (HEMP)	1	2022	3	2025
Production	2	2023	2	2026
RAA IOC (Non-HEMP)	3	2023	3	2023
RAA IOC (HEMP)	4	2024	4	2024
RAA FOC (HEMP)	4	2026	4	2026