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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605380A / <i>AMF Joint Tactical Radio System (JTRS)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	15.379	0.000	0.000	-	0.000	0.000	0.000	14.986	32.321	Continuing	Continuing
BX3: <i>MIDS JTRS Ground Variant (MIDS JTRS GV)*</i>	-	0.000	0.000	0.000	-	0.000	0.000	0.000	14.986	32.321	Continuing	Continuing
EG6: <i>Small Airborne Networking Radio (SANR)</i>	-	15.379	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.379

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2021

A. Mission Description and Budget Item Justification

The AMF radios are software programmable, multi-band, multi-mode, mobile ad hoc networking radios, providing simultaneous voice and data communications for Army Aviation platforms. The radios were planned to operate in networks supporting the Common Operating Picture, Situational Awareness, and interoperability of Mission Command systems throughout the battlefield. AMF radios were planned to ensure the Soldier's ability to communicate both horizontally and vertically via voice and data within all mission areas and Common Operating Environment. AMF radios were planned to operate waveforms that are deployed by Joint Forces today, and would have introduced networking waveforms to the Aviation community that would have enabled interoperability between air and ground forces and transport operational and Mission Command information through the tactical network. AMF radios were planned to help close capability gaps by extending data networking to company and below echelons, enabling network services to the platform and connecting Army Aviation platforms to Army ground and Joint air network domains.

On 17 July 18, the Army Acquisition Executive signed both the SANR Closeout Acquisition Decision Memorandum (ADM) and SANR Termination plan. The ADM and plan initiated a program termination action and directed an orderly shutdown of the SANR program.

The SANR subprogram (Project EG6) has no approved requirement and all SANR funding has been withdrawn in FY 2020 and beyond.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	15.964	0.000	0.000	-	0.000
Current President's Budget	15.379	0.000	0.000	-	0.000
Total Adjustments	-0.585	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.585	-			
• SBIR/STTR Transfer	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)				Project (Number/Name) EG6 / Small Airborne Networking Radio (SANR)			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
EG6: <i>Small Airborne Networking Radio (SANR)</i>	-	15.379	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.379
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Prior to FY 2014, the Airborne Maritime/Fixed Station (AMF) Joint Tactical Radio System (JTRS) was funded under Navy PE 0604280N, aligned under the Navy JTRS Programs. In accordance with a July 11, 2012 Acquisition Decision Memorandum (ADM), the JTRS Program of Record transitioned to a Military Department-managed program. AMF is now managed by Program Executive Office Command, Control and Communications-Tactical, under Project Manager Tactical Radios, and funded by Army PE 0605380A. On May 2, 2014, the Milestone Decision Authority (MDA), Under Secretary of Defense for Acquisition, Technology, and Logistics, issued an ADM that designated Small Airborne Link 16 Terminal (SALT) and Small Airborne Networking Radio (SANR) as subprograms under the AMF Program. In FY 2015, Project EA9 represented the total Airborne Maritime Fixed Small Airborne (AMF-SA, or SALT) RDT&E budget. In FY 2016, funding was allocated between the SALT (Project EA9) and SANR (Project EG6) subprograms. The SANR subprogram (Project EG6) has no approved requirement and funding has been withdrawn in FY 2020 and beyond.

A. Mission Description and Budget Item Justification

Per MDA direction, AMF JTRS would have procured SANR radios as Non-Developmental Items (NDI). The SANR was planned as a two-channel, software-defined, National Security Agency Type 1 certified networking radio providing seamless real-time information for operation in mobile and dynamic combat environments to meet tactical communications requirements as validated by the Army Aviation community. SANR was planned to provide increased data throughput to Army Aviation platforms via advanced networking capabilities supporting Mid-Tier and Lower Tier tactical networks, and maintain Single Channel Ground and Airborne Radio System (SINCGARS) capability. SANR was planned to replace the current SINCGARS radios on Army Aviation platforms. SANR was planned for implementation on the following platforms: Apache (AH-64E), Black Hawk (UH-60V, UH-60M, HH-60M, and MH-60M), Chinook (CH-47F and MH-47G), and Gray Eagle Unmanned Aircraft System (MQ-1C) aircraft. SANR was planned to enhance and further enable the ability of the maneuver commander to integrate and synchronize aviation forces with land based operational forces. SANR, was planned to be employed on Army aviation platforms, enable aviation combat elements (Combat Aviation Brigades, Theater Aviation Brigades, and Special Operations Aviation Regiment) to better utilize the inherent versatility of airborne communications as a complement to the unique capabilities of the other combat arms. SANR planned to provide commanders enhanced Situational Awareness and Mission Command in a package that provides a more responsive means of directing aircraft to match changing maneuver forces situations and missions.

On 17 July 18, the Army Acquisition Executive signed both the SANR Closeout Acquisition Decision Memorandum (ADM) and SANR Termination plan. The ADM and plan initiated a program termination action and directed an orderly shutdown of the SANR program.

The SANR subprogram (Project EG6) has no approved requirement and all SANR funding has been withdrawn in FY 2020 and beyond.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EG6 / Small Airborne Networking Radio (SANR)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Title: FY19 Rescission	15.379	-	-
Accomplishments/Planned Programs Subtotals	15.379	-	-

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

N/A

Remarks

N/A

D. Acquisition Strategy

On 17 July 18, the Army Acquisition Executive signed both the SANR Closeout Acquisition Decision Memorandum (ADM) and SANR Termination plan. The ADM and plan initiated a program termination action and directed an orderly shutdown of the SANR program.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605380A / AMF Joint Tactical Radio System (JTRS)				EG6 / Small Airborne Networking Radio (SANR)							
Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
AMF-SA Business Operations Management and Support	Various	Various : Various	7.966	1.170		-		-		-		-	0.000	9.136	-
Subtotal			7.966	1.170		-		-		-		-	0.000	9.136	N/A
Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
AMF-SA - System Engineering and Requirements Validation	Various	Various : Various	4.916	2.557		-		-		-		-	0.000	7.473	-
AMF-SA - Air-Ground Integration Experimentation	Various	Various : Various	10.000	10.000		-		-		-		-	0.000	20.000	-
Subtotal			14.916	12.557		-		-		-		-	0.000	27.473	N/A
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
AMF-SA - Logistics Support	Various	Various : Various	1.601	0.344		-		-		-		-	0.000	1.945	-
Subtotal			1.601	0.344		-		-		-		-	0.000	1.945	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EG6 / Small Airborne Networking Radio (SANR)

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Procurement of Link-16 Handheld Radios	Procurement of Link-16				Experimentation and CONOPS Development																							
Experimentation and CONOPS Development	Experimentation and CONOPS Development																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EG6 / Small Airborne Networking Radio (SANR)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Procurement of Link-16 Handheld Radios	2	2018	4	2019
Experimentation and CONOPS Development	3	2018	4	2019