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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	6.616	11.455	5.028	-	5.028	35.927	6.820	10.817	9.398	Continuing	Continuing
EA9: Airborne Maritime Fixed - Small Airborne (AMF-SA)	-	6.616	5.300	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
EG6: Small Airborne Networking Radio (SANR)	-	0.000	6.155	5.028	-	5.028	35.927	6.820	10.817	9.398	Continuing	Continuing

Note

In FY 2015, Project EA9 represents the total Airborne Maritime Fixed Small Airborne (AMF-SA) RDT&E budget. In FY 2016, funding was allocated between Projects EA9 and EG6. Prior to FY 2014, AMF JTRS was funded under Navy PE 0604280N aligned under the Navy Joint Tactical Radio System (JTRS) Programs. In accordance with the ADM dated 11 July 2012, 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 (PEO C3T) under Project Manager Tactical Radios (PM TR), funded by Army PE 0605380A. On 2 May 2014, USD (AT&L) issued an ADM that designated Small Airborne Link 16 Terminal (SALT) and Small Airborne Networking Radio (SANR) as subprograms under the AMF Program.

On August 31, 2015, the SALT Milestone Decision Authority issued an Acquisition Decision Memorandum, tasking an orderly close out of the SALT subprogram.

Project No. EG6 represents the SANR RDTE subprogram budget under AMF.

A. Mission Description and Budget Item Justification

The Airborne Maritime/Fixed Station (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 will operate in networks supporting the Common Operating Picture (COP), Situational Awareness (SA), and interoperability of Mission Command (MC) systems throughout the battlefield. AMF radios will ensure the Soldier's ability to communicate both horizontally and vertically via voice and data within all mission areas and Common Operating Environment (COE). AMF radios will 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.

Per Milestone Decision Authority (MDA) direction, the AMF Program will procure radios as Non-Developmental Items (NDI). The MDA, Under Secretary of Defense for Acquisition, Technology, and Logistics (USD AT&L), signed the Acquisition Program Baseline (APB) along with an Acquisition Decision Memorandum (ADM) in May of 2014, which identified the Small Airborne Networking Radio (SANR) and the Small Airborne Link 16 Terminal (SALT) as subprograms.

SANR will operate networking waveforms that are deployed by Joint Forces today, enable interoperability between different types of platforms, and transport operational and Mission Command information through the tactical network. SANR is relevant to the Joint Functional Concept (Net-Centric Environment), Joint Integrating Concept

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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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(Net-Centric Operational Environment), Joint Operating Concept (Major Combat Operations, Stability Operations), and JTRS Concept of Operations (Tactical Wireless Joint Networks).

On August 31, 2015, the SALT MDA issued an ADM tasking an orderly close out of the SALT subprogram.

Total FY 2017 funding is \$5.028 million, all of which is allocated to SANR (Project No. EG6). The FY 2017 funding provides funding necessary to continue source selection activities in support of contract award.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	6.878	12.987	11.091	-	11.091
Current President's Budget	6.616	11.455	5.028	-	5.028
Total Adjustments	-0.262	-1.532	-6.063	-	-6.063
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.532			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.262	-			
• Adjustments to Budget Years	-	-	-6.063	-	-6.063

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EA9 / Airborne Maritime Fixed - Small Airborne (AMF-SA)
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EA9: Airborne Maritime Fixed - Small Airborne (AMF-SA)	-	6.616	5.300	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

On August 31, 2015, the Small Airborne Link 16 Terminal (SALT) Milestone Decision Authority (MDA) issued an Acquisition Decision Memorandum (ADM) tasking an orderly close out of the SALT subprogram.

A. Mission Description and Budget Item Justification

On August 31, 2015, the SALT MDA issued an ADM tasking an orderly close out of the SALT subprogram.

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

	FY 2015	FY 2016	FY 2017
Title: Airborne Maritime Fixed Small Airborne (AMF-SA).	6.616	5.300	-
Description: Airborne Maritime Fixed Small Airborne (AMF-SA).			
FY 2015 Accomplishments: With FY 2015 funding, the Program Management Office (PMO) prepared pre-award documentation and conducted Pre-solicitation Reliability Testing (PRT) for SALT. Army Test and Evaluation Command (ATEC) was funded to support program test & evaluation and requirements efforts.			
FY 2016 Plans: FY 2016 funds PMO Support and System Engineering support.			
Accomplishments/Planned Programs Subtotals	6.616	5.300	-

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

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• B90900: B90902 Airborne Maritime Fixed - Small Airborne (AMF-SA)	-	-	-	-	-	-	-	-	-		

Remarks

Due to close out of SALT, the FY 2018-FY 2021 procurement funding allocations will be transferred out of B90902.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / <i>AMF Joint Tactical Radio System (JTRS)</i>	Project (Number/Name) EA9 / <i>Airborne Maritime Fixed - Small Airborne (AMF-SA)</i>

D. Acquisition Strategy

On August 31, 2015, the SALT MDA issued an ADM tasking an orderly close out of the SALT subprogram.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605380A / AMF Joint Tactical Radio System (JTRS)				EA9 / Airborne Maritime Fixed - Small Airborne (AMF-SA)							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	5.518	3.014		4.396		-		-		-	Continuing	Continuing	0
Subtotal			5.518	3.014		4.396		-		-		-	-	-	0.000
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	1.160	1.325		0.904		-		-		-	Continuing	Continuing	0
Subtotal			1.160	1.325		0.904		-		-		-	-	-	0.000
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	1.242	1.267		-		-		-		-	Continuing	Continuing	0
Subtotal			1.242	1.267		-		-		-		-	-	-	0.000
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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 - Test and Evaluation and Test Support	Various	Various : Various	1.954	1.010		-		-		-		-	Continuing	Continuing	0
Subtotal			1.954	1.010		-		-		-		-	-	-	0.000

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EA9 / Airborne Maritime Fixed - Small Airborne (AMF-SA)
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
SALT Closeout																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605380A / AMF Joint Tactical Radio System (JTRS)	Project (Number/Name) EA9 / Airborne Maritime Fixed - Small Airborne (AMF-SA)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SALT Closeout	1	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EG6: <i>Small Airborne Networking Radio (SANR)</i>	-	0.000	6.155	5.028	-	5.028	35.927	6.820	10.817	9.398	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY 2016, Project No. EG6 represents the total Small Airborne Networking Radio (SANR) RDT&E budget. Prior to FY 2014, AMF JTRS was funded under Navy PE 0604280N aligned under the Navy JTRS Programs. In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Record transitioned to a Military Department-managed program. On 2 May 2014, USD (AT&L) issued an ADM that designated Small Airborne Link 16 Terminal (SALT) and SANR as subprograms under the AMF Program. AMF JTRS is managed by Program Executive Office Command, Control and Communications-Tactical (PEO C3T) under Project Manager Tactical Radios (PM TR), funded by Army PE 0605380A.

A. Mission Description and Budget Item Justification

Per Milestone Decision Authority direction, AMF JTRS will procure SANR radios as Non-Developmental Items (NDI). The SANR is a two-channel, software-defined, National Security Agency (NSA) Type 1 certified networking radio providing seamless real-time information for operation in mobile and dynamic combat environments that will meet tactical communications requirements as validated by the Army Aviation community. SANR will provide increased data throughput to Army Aviation platforms via the Soldier Radio Waveform (SRW) and Wideband Networking Waveform (WNW) capabilities, and maintain Single Channel Ground and Airborne Radio System (SINCGARS) capability. SANR will replace the current SINCGARS radios on Army Aviation platforms. SANR is 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), Gray Eagle Unmanned Aircraft System (UAS) (MQ-1C), and Little Bird (MH-6) aircraft. SANR will enhance and further enable the ability of the maneuver commander to integrate and synchronize aviation forces with land based operational forces. SANR, employed on Army aviation platforms, will enable aviation combat elements (Combat Aviation Brigades, Theater Aviation Brigades, and Special Operations Aviation Regiment (SOAR)) to better utilize the inherent versatility of airborne communications as a complement to the unique capabilities of the other combat arms. SANR will give 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.

FY 2017 funding provides for continuation of source selection activities in support of contract award.

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

	FY 2015	FY 2016	FY 2017
Title: Small Airborne Networking Radio (SANR)	-	6.155	5.028
Description: Small Airborne Networking Radio (SANR)			
FY 2016 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army	Date: February 2016
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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)
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
With FY 2016 funding, the program will conduct Market Research, develop and release the Request for Proposal (RFP), and begin source selection activities in support of contract award.			
FY 2017 Plans: With FY 2017 funding, the program will continue and complete source selection activities in support of contract award, and develop documentation to support Milestone C.			
Accomplishments/Planned Programs Subtotals	-	6.155	5.028

C. Other Program Funding Summary (\$ in Millions)										
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete Total Cost
• B90900: B90904 JTRS (AMF) Small Airborne Networking Radio (SANR)	-	-	-	-	-	-	41.049	64.202	82.949	Continuing Continuing

Remarks

D. Acquisition Strategy

The SANR acquisition strategy is to procure small airborne networking radios for the Apache, Blackhawk, Chinook, Gray Eagle and Little Bird aircraft. SANR will be capable of operating the WNW, SRW, and SINCGARS waveforms. The SANR acquisition strategy employs full and open competition using an NDI procurement approach that leverages prior industry and Government investment in software-defined radios. The strategy supports a concept in which NDI radios can be selected from a qualified vendor that meet the AMF SANR Capability Production Document (CPD) requirements.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

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)
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
AMF-SA Business Operations Management and Support	Various	Various : Various	0.000	-		2.388		2.615		-		2.615	Continuing	Continuing	0
Subtotal			0.000	-		2.388		2.615		-		2.615	-	-	0.000

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
AMF-SA - System Engineering and Requirements Validation	Various	Various : Various	0.000	-		1.166		1.176		-		1.176	Continuing	Continuing	0
Subtotal			0.000	-		1.166		1.176		-		1.176	-	-	0.000

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
AMF-SA - Logistics Support	Various	Various : Various	0.000	-		0.544		0.423		-		0.423	Continuing	Continuing	0
Subtotal			0.000	-		0.544		0.423		-		0.423	-	-	0.000

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
AMF-SA - Test and Evaluation and Test Support	Various	Various : Various	0.000	-		2.057		0.814		-		0.814	Continuing	Continuing	0
Subtotal			0.000	-		2.057		0.814		-		0.814	-	-	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army								Date: February 2016			
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)				
	Prior Years	FY 2015	FY 2016		FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	0.000	-	6.155		5.028	-	5.028	-	-	0.000	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

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)
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Market Research	Market Research																											
(1) Request for Proposal (RFP) Release					RFP Release ▲ ₁																							
Source Selection Activities and Testing					SSel Act/Test																							
(2) Contract Award									Contract Award ▲ ₂																			
Production Qualification Test (PQT)/Government Lab Test (GLT)									PQT/GLT																			
Reliability Verification Test (RVT)									RVT																			
Single Channel Ground and Airborne Radio System (SINGARS) Waveform Standards Conformance Test									SINGARS WSCT																			
Cyber Awareness Test - Blue Team Testing									Cyber Awareness Test																			
Wideband Networking Waveform (WNW) Waveform Standards Conformance Test									WNW WSCT																			
Soldier Radio Waveform (SRW) Waveform Standards Conformance Test									SRW WSCT																			
Airborne Integrated Test (AIT)									AIT																			
(3) Milestone C													MS C ▲ ₃															
(4) Low Rate Initial Production (LRIP) Contract Option													LRIP Contract Op ▲ ₄															

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

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)
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021																							
	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																				
Development Test (DT) Lab																									DT Lab																							
Development Test (DT) Flight																																					DT Flight											
Logistics Test																																					Logistics Test											
Initial Operational Test and Evaluation (IOT&E)																																					IOT&E											
(1) Full Rate Production (FRP)																																									FRP							
(2) Full Rate Production (FRP) Contract Option																																									FRP Contract Opt							

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
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
Market Research	1	2016	2	2016
Request for Proposal (RFP) Release	3	2016	3	2016
Source Selection Activities and Testing	4	2016	4	2017
Contract Award	1	2018	1	2018
Production Qualification Test (PQT)/Government Lab Test (GLT)	2	2018	4	2018
Reliability Verification Test (RVT)	2	2018	1	2019
Single Channel Ground and Airborne Radio System (SINCGARS) Waveform Standard	2	2018	3	2018
Cyber Awareness Test - Blue Team Testing	3	2018	3	2018
Wideband Networking Waveform (WNW) Waveform Standards Conformance Test (WSCT)	3	2018	4	2018
Soldier Radio Waveform (SRW) Waveform Standards Conformance Test (WSCT)	4	2018	1	2019
Airborne Integrated Test (AIT)	1	2019	1	2019
Milestone C	3	2019	3	2019
Low Rate Initial Production (LRIP) Contract Option	4	2019	4	2019
Development Test (DT) Lab	4	2019	2	2020
Development Test (DT) Flight	1	2020	2	2020
Logistics Test	1	2020	1	2020
Initial Operational Test and Evaluation (IOT&E)	2	2020	2	2020
Full Rate Production (FRP)	4	2020	4	2020
Full Rate Production (FRP) Contract Option	4	2020	4	2020

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