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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605380A: Airborne Maritime Fixed Small Airborne (AMF-SA)							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	33.219	-	33.219	64.574	21.415	5.100	0.000	Continuing	Continuing
EA9: Airborne Maritime Fixed Small Airborne (AMF-SA)	-	0.000	0.000	33.219	-	33.219	64.574	21.415	5.100	0.000	Continuing	Continuing
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2014-FY 2017, Project No. EA9 represents the total Airborne Maritime/Fixed Station Joint Tactical Radio Systems (AMF JTRS) RDT&E budget for those years. In FY 2014, RDT&E funding for AMF JTRS transitions from a Navy Program Element (PE) 0604280N to Army PE 0605380A.												
A. Mission Description and Budget Item Justification												
The Airborne & Maritime/Fixed Station Joint Tactical Radio System (AMF JTRS) radios are software programmable, multi-band, multi-mode, mobile ad hoc networking radios, providing simultaneous voice, data, and video communications. The radios will operate in networks supporting the Common Operational Picture, situational awareness, and interoperability of Mission Command (MC) systems throughout the battlefield. AMF JTRS must ensure the Warfighter's ability to communicate both horizontally and vertically via voice and data within all mission areas and Combat Operational Environments. AMF JTRS helps 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 redefined AMF JTRS Program will procure radios as Non-Developmental Items (NDI).												
AMF JTRS will operate networking waveforms and select waveforms that are widely deployed by Joint Forces today, enable interoperability between different types of platforms, and transport operational and MC information through the tactical network to joint network member nodes. The system will also reach back to access Global Information Grid (GIG) services, where required. The need for interoperable systems, including common waveforms, software applications, and network operations is critical to the mobile tactical network capability. AMF JTRS is relevant to the Joint Functional Concept (Net-Centric Environment), Joint Integrating Concept (Net-Centric Operational Environment), Joint Operating Concept (Major Combat Operations, Stability Operations), and JTRS Concept of Operations (Tactical Wireless Joint Networks). AMF JTRS shall support and enhance three principal Warfighter outcomes: Information Superiority, Joint Force Interoperability, and Networking.												

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0605380A: Airborne Maritime Fixed Small Airborne (AMF-SA)			
BA 5: System Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	33.219	-	33.219
Total Adjustments	0.000	0.000	33.219	-	33.219
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	33.219	-	33.219

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605380A: Airborne Maritime Fixed Small Airborne (AMF-SA)				PROJECT EA9: Airborne Maritime Fixed Small Airborne (AMF-SA)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
EA9: Airborne Maritime Fixed Small Airborne (AMF-SA)	-	0.000	0.000	33.219	-	33.219	64.574	21.415	5.100	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2014-FY 2017, Project No. EA9 represents the total Airborne Maritime/Fixed Station Joint Tactical Radio Systems (AMF JTRS) RDT&E budget for those years. In FY 2014, RDT&E funding for AMF JTRS transitions from a Navy Program Element (PE) 0604280N to Army PE 0605380A.												
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The Airborne & Maritime/Fixed Station Joint Tactical Radio System (AMF JTRS) radios are software programmable, multi-band, multi-mode, mobile ad hoc networking radios, providing simultaneous voice, data, and video communications. The radios will operate in networks supporting the Common Operational Picture, situational awareness, and interoperability of Mission Command (MC) systems throughout the battlefield. AMF JTRS must ensure the Warfighter's ability to communicate both horizontally and vertically via voice and data within all mission areas and Combat Operational Environments. AMF JTRS helps 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 redefined AMF JTRS Program will procure radios as Non-Developmental Items (NDI).												
AMF JTRS will operate networking waveforms and select waveforms that are widely deployed by Joint Forces today, enable interoperability between different types of platforms, and transport operational and MC information through the tactical network to joint network member nodes. The system will also reach back to access Global Information Grid (GIG) services, where required. The need for interoperable systems, including common waveforms, software applications, and network operations is critical to the mobile tactical network capability. AMF JTRS is relevant to the Joint Functional Concept (Net-Centric Environment), Joint Integrating Concept (Net-Centric Operational Environment), Joint Operating Concept (Major Combat Operations, Stability Operations), and JTRS Concept of Operations (Tactical Wireless Joint Networks). AMF JTRS shall support and enhance three principal Warfighter outcomes: Information Superiority, Joint Force Interoperability, and Networking.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: In FY 2014-2017, Project No. EA9 represents the total Airborne Maritime/Fixed Station Joint Tactical Radio Systems (AMF JTRS) RDT&E budget for those years.									0.000	0.000	33.219	
Description: The Airborne & Maritime/Fixed Station Joint Tactical Radio System (AMF JTRS) radios are software programmable, multi-band, multi-mode, mobile ad hoc networking radios, providing simultaneous voice, data, and video communications. The radios will operate in networks supporting the Common Operational Picture, situational awareness, and interoperability of Mission Command (MC) systems throughout the battlefield. AMF JTRS must ensure the Warfighter's ability to communicate both												

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0605380A: Airborne Maritime Fixed Small Airborne (AMF-SA)			PROJECT EA9: Airborne Maritime Fixed Small Airborne (AMF-SA)					
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2012	FY 2013	FY 2014		
horizontally and vertically via voice and data within all mission areas and Combat Operational Environments. AMF JTRS helps 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 redefined AMF JTRS Program will procure radios as Non-Developmental Items (NDI). AMF JTRS will operate networking waveforms and select waveforms that are widely deployed by Joint Forces today, enable interoperability between different types of platforms, and transport operational and MC information through the tactical network to joint network member nodes. The system will also reach back to access Global Information Grid (GIG) services, where required. The need for interoperable systems, including common waveforms, software applications, and network operations is critical to the mobile tactical network capability. AMF JTRS is relevant to the Joint Functional Concept (Net-Centric Environment), Joint Integrating Concept (Net-Centric Operational Environment), Joint Operating Concept (Major Combat Operations, Stability Operations), and JTRS Concept of Operations (Tactical Wireless Joint Networks). AMF JTRS shall support and enhance three principal Warfighter outcomes: Information Superiority, Joint Force Interoperability, and Networking. FY 2014 Plans: Conduct Source Selections for a Link 16 radio (Small Airborne Link 16 Terminal [SALT]) and a wideband networking waveform capability radio (Small Airborne Networking Radio [SANR]). Conduct Program Support Review (PSR) for the Networking Radio Integration and Test units. Award post-Milestone C contracts for the SALT radio units and SANR radio units for Integration and Test to support Operational Assessment, as well as SALT radio Low Rate Initial Production (LRIP) units. Leverage Apache Block III helicopter Follow-on Operational Test & Evaluation (FOT&E) to support Operational Assessment of SALT radio. Fund external agencies (e.g., Army Test and Evaluation Command [ATEC], Joint Interoperability Test Command [JITC], and Training and Doctrine Command [TRADOC]) to support program test & evaluation and requirements efforts.											
Accomplishments/Planned Programs Subtotals							0.000	0.000	33.219		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• B90110: B90110 JTRS (AMF)		74.041				8.808	164.977	153.677	160.810	0.000	562.313
Remarks											
D. Acquisition Strategy											
AMF JTRS underwent a program restructure in accordance with Milestone Decision Authority (MDA) direction. The program is revising its material solution strategy to leverage commercially available Non-Developmental Item (NDI) tactical radios in order to rapidly deliver AMF JTRS capabilities to the warfighter. The strategy will											

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support a concept in which NDI radios can be selected from the vendor base and tailored to platform needs. The current strategy is to procure two variations of NDI radios for Airborne platforms, one with Link 16 (Small Airborne Link 16 Terminal [SALT]) and another with wideband networking waveform capability (Small Airborne Networking Radio [SANR]). Maritime/Fixed Station sites will not be part of the revised procurement.		
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army						PE 0605380A: Airborne Maritime Fixed Small Airborne (AMF-SA)				EA9: Airborne Maritime Fixed Small Airborne (AMF-SA)					
BA 5: System Development & Demonstration (SDD)															
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 Business Operations Management and Support	TBD	Various:Various	0.000	-		-		7.998	Oct 2013	-		7.998	0.000	7.998	0.000
Subtotal			0.000	0.000		0.000		7.998		0.000		7.998	0.000	7.998	0.000
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 JTRS - System Engineering and Requirements Validation	WR	Various:Various	0.000	-		-		3.511	Oct 2013	-		3.511	0.000	3.511	0.000
AMF JTRS - NDI Integration and Certification	TBD	Various:Various	0.000	-		-		14.420	Jul 2014	-		14.420	0.000	14.420	0.000
Subtotal			0.000	0.000		0.000		17.931		0.000		17.931	0.000	17.931	0.000
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 JTRS - Integrated Logistics Support	WR	Various:Various	0.000	-		-		1.646	Oct 2013	-		1.646	0.000	1.646	0.000
Subtotal			0.000	0.000		0.000		1.646		0.000		1.646	0.000	1.646	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 JTRS - Test and Evaluation and Test Support	WR	Various:Various	0.000	-		-		5.644	Oct 2013	-		5.644	0.000	5.644	0.000

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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		5.644		0.000		5.644	0.000	5.644	0.000

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	0.000	33.219	0.000	33.219	0.000	33.219	0.000

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605380A: <i>Airborne Maritime Fixed Small Airborne (AMF-SA)</i>	PROJECT EA9: <i>Airborne Maritime Fixed Small Airborne (AMF-SA)</i>
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	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Milestone C																												
Small Airborne Link 16 Terminal (SALT) Full Rate Production (FRP)																												
Program Support Review (Small Airborne Networking Radio [SANR] LRIP)																												
Program Support Review (SANR FRP)																												
Initial Operational Capability																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Milestone C	3	2014	3	2014
Small Airborne Link 16 Terminal (SALT) Full Rate Production (FRP)	3	2016	3	2016
Program Support Review (Small Airborne Networking Radio [SANR] LRIP)	1	2016	1	2016
Program Support Review (SANR FRP)	3	2017	3	2017
Initial Operational Capability	3	2018	3	2018