Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army

Date: May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

PE 0605042A I Tactical Network Radio Systems (Low-Tier)

Development & Demonstration (SDD)

COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	0.000	18.824	20.076	-	20.076	7.651	10.178	22.006	22.328	Continuing	Continuing
FA1: Manpack Radio	-	0.000	14.819	10.039	-	10.039	3.826	5.088	11.003	11.164	Continuing	Continuing
FA2: Rifleman Radio (RR)	-	0.000	4.005	10.037	-	10.037	3.825	5.090	11.003	11.164	Continuing	Continuing

Note

In coordination with G8 and the Army Budget Office, HMS PE 0604280A was realigned under PE 0605042A in PB17. The HMS program will execute funding under two separate project codes for Manpack Radio (Project Code FA1) and Rifleman Radio (Project Code FA2) beginning in FY 2017.

A. Mission Description and Budget Item Justification

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a material solution meeting requirements for Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government Purpose Rights software waveforms (applications). HMS is an Acquisition Category IC program that encompasses specific requirements to support the U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communications needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS) / Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communications.

HMS encompasses the Handheld Radios (one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR)), Manpack Radio (MP), and Small Form Fit (SFF) radios. HMS radios will provide voice and support for data services such as text, control graphics, imagery, video, and telemetry to Warfighters and tactical end user devices including handheld, embedded, and larger computing devices, as well as unmanned systems.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	18.824	5.417	-	5.417
Current President's Budget	0.000	18.824	20.076	-	20.076
Total Adjustments	0.000	0.000	14.659	-	14.659
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	0.000	0.000	14.659	-	14.659

UNCLASSIFIED Page 1 of 16

•	5113E/136II IEB	
Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low	-Tier)
Change Summary Explanation The FY 2018 RDTE funding increase of \$14.659M for HMS is driven	n by the increase in testing requirements for both radio prod	ducts.

PE 0605042A: *Tactical Network Radio Systems (Low-Tier...* Army

Exhibit R-2A, RDT&E Project Ju	stification	: FY 2018 A	rmy							Date: May	2017			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605042A I Tactical Network Radio Systems (Low-Tier) Project (Number/Name) FA1 I Manpack Radio								
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost		
FA1: Manpack Radio	-	0.000	14.819	10.039	-	10.039	3.826	5.088	11.003	11.164	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

In coordination with G8 and the Army Budget Office, HMS PE 0604280A was realigned under PE 0605042A in PB17. The HMS program will execute funding under two separate project codes for Manpack Radio (Project Code FA1) and Rifleman Radio (Project Code FA2) beginning in FY 2017.

A. Mission Description and Budget Item Justification

The MP radio is a NSA certified Type 1 radio used for transmission of up to SECRET information. MP is capable of providing two simultaneous channels of secure voice and data communications using SINCGARS, SRW, and Demand Assigned Multiple Access Satellite Communication. Future operational capabilities include the Mobile User Objective System (MUOS) waveform. The MP provides range extension and connects soldiers in the lower tier network to the mid-tier network. It is interoperable with legacy waveforms and capable of route and retransmission and cross-banding. The Manpack provides networking waveforms connectivity, Networked LOS / BLOS voice and data communications.

The SFF-B is a two-channel embedded radio. It is a NSA certified Type 1 radio used for transmission of up to SECRET information. SFF-B was originally designed to meet Nett Warrior Radio requirements. It would be embedded into the Nett Warrior leader ensemble (platoon leader, platoon sergeant, squad leader, and team leader). The current focus for SFF-B is for use in Unmanned Aerial Vehicles (UAVs).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: Program Management	_	0.356	0.600
Description: Manpack's program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings.			
FY 2017 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Core, Matrix, and Contractor support.			
FY 2018 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Core, Matrix, and Contractor support.			
Title: HMS Engineering/Technical Support	-	1.142	0.700

UNCLASSIFIED Page 3 of 16

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		1	Date: N	1ay 2017	
Appropriation/Budget Activity 2040 / 5		t (Number/I Manpack Ra			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
Description: Overall technical analysis support to PdM HMS' Mar	npack products.				
FY 2017 Plans: Provide technical systems engineering support to evaluate technic to identify alternatives to reduce cost, improve performance, and a planning and execution of laboratory and field test events, includir (EDMs), commercial radio solutions, Developmental and Operatio radio performance.	achieve tactical radio objectives. Technical test support fong support for testing of prototypes, Engineering Design M	r the lodels			
FY 2018 Plans: Provide technical systems engineering support to evaluate technic to identify alternatives to reduce cost, improve performance, and a planning and execution of laboratory and field test events, includir (EDMs), commercial radio solutions, Developmental and Operatio radio performance.	achieve tactical radio objectives. Technical test support fong support for testing of prototypes, Engineering Design M	r the lodels			
Title: Test and Evaluation			-	13.321	8.73
Description: Manpack's Test and Evaluation focuses on the key to Frequency performance, security, Reliability, Availability & Maintain environmental performance requirements as per the Capability Proceedings of through the Qualification Test (QT) to qualify for a CR Risk Reduction Test (FBRR) that will serve as risk reduction event at full capability and ready to be used by soldiers. The QT and CT risk reduction events prior to the OT as opposed to developmental	inability, and survivability requirements, in addition to ope oduction Document. All radios awarded a contract will be Customer Test (CT). Following CT there will be a Field Bat prior to Operational Test (OT) to ensure the radio is open will be executed by Electronic Proving Ground and will se	rational sed rational			
The QT will validate the manufacturer's ability to meet the minimum Requirements Document. Radios that successfully demonstrate known as a risk reduction event for FBRR as data from this event vndecision. FBRR will serve as a risk reduction event for delayed that The OT will include support from Army and DoD operational tester Operational Mode Summary / Mission Profile of the system(s) und meets the users' needs in terms of effectiveness, suitability and su OT will facilitate the delivery orders for Full Rate Production.	ey capabilities during QT will proceed to the CT. The CT will be considered for manufacturer down-select and an in resholds and OT. rs and will use communication scenarios based on the der test. The OT will be designed to validate that HMS pro	ducts			

UNCLASSIFIED Page 4 of 16

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017
ļ · · · · · · · · · · · · · · · · · · ·	R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)	Project (Number/Name) FA1 / Manpack Radio

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
FY 2017 Plans: The FY 2017 funding is needed to conduct testing for the MP candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release for FRP; engineering and technical support at test events; and to fully fund the testing requirements on the MP candidate radios as laid out in the HMS Acquisition Strategy approved May 2014.			
FY 2018 Plans: The FY 2018 funding is needed to conduct testing for the MP candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release for FRP; engineering and technical support at test events; and to fully fund the testing requirements on the MP candidate radios as laid out in the HMS Acquisition Strategy approved May 2014.			
Accomplishments/Planned Programs Subtotals	-	14.819	10.039

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

		-	FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	Base	OCO	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cost
• RDTE: 0654280A: <i>DZ5</i>	4.415	-	-	-	-	-	-	-	-	0.000	4.415
 PE: 0605042A, 	-	4.005	10.039	-	10.039	3.826	5.088	11.003	11.164	Continuing	Continuing
FA-2: Rifleman Radio											
• OPA: B90000,	29.509	-	-	-	-	-	-	-	-	0.000	29.509
B90210: Rifleman Radio											
• OPA: B90000,	25.131	-	-	-	-	-	-	-	-	0.000	25.131
B90215: Manpack Radio											
• OPA: B95004, B95006:	-	43.734	37.773	-	37.773	53.511	60.951	85.020	73.255	Continuing	Continuing
Handheld Radio											
• OPA: B95004,	-	229.911	317.578	-	317.578	305.005	338.962	317.760	401.571	Continuing	Continuing
B95007: Manpack Radio											

Remarks

HMS RDTE funding for FY 2016 and prior is held under PE 0604280A Joint Tactical Radios. HMS Procurement funding for FY 2016 and prior is held under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack). Due to a request to provide more transparency into the program, HMS RDTE funding beginning in FY 2017 will move to PE 0605042A Tactical Network Radio Systems (Low-Tier): FA1 Manpack Radio and FA2 Rifleman Radio. HMS Procurement funding beginning in FY 2017 will move to SSN B95004 Handheld Manpack Small Form Fit: SSN B95006 Handheld and SSN B95007 Manpack.

UNCLASSIFIED
Page 5 of 16

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040 / 5	, ,	roject (Number/Name) A1 <i>I Manpack Radio</i>

D. Acquisition Strategy

HMS is currently executing a May 2014 approved acquisition strategy to procure Non-Developmental Items (NDI). Utilizing a full and open competition strategy the Manpack (MP) base contract was awarded to all potential industry partners. The MP contract was awarded on 26 February 2016, and will procure NDI MP radios for use in a classified environment. The MP is capable of running the following waveforms: SRW, Single Channel Ground and Airborne Radio System (SINCGARS), Satellite Communications (SATCOM) - Army managed waveforms, and Mobile User Objective System (MUOS) - Navy managed waveform.

The Army has awarded Firm Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) Contracts and will procure radios through a multiple step selection process:

- a. Awarded FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (26 February 2016)
- b. Awarded initial delivery orders based on Qualification Test results (19 December 2016)
- c. Award second delivery orders based on Customer Test results (4QFY17)
- d. Award FRP delivery orders based on Operational Test and best value trade off construct (3QFY19)

E. Performance Metrics

N/A

						NCLASS									
Exhibit R-3, RDT&E F	Project C	ost Analysis: FY 2	018 Army	/								Date:	May 2017	,	
Appropriation/Budge 2040 / 5	t Activity	1				PE 060		ement (No Factical Ne Fer)				(Number lanpack R			
Management Service	s (\$ in M	lillions)		FY:	2016	FY 2	2017	FY 2 Ba			2018 CO	FY 2018 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
Project Management Office Support	TBD	PEO C3T, CECOM, PM TR Alliant : Various; APG, MD	0.000	-		0.356		0.600		-		0.600	0.000	0.956	0.000
		Subtotal	0.000	-		0.356		0.600		-		0.600	0.000	0.956	0.000
Support (\$ in Millions	s)			FY:	2016	FY 2	2017	FY 2			2018 CO	FY 2018 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	Total Cost	Target Value of Contract
HMS Engineering/ Technical Support	TBD	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC : Various	0.000	-		1.142		0.700		-		0.700	0.000	1.842	0.000
		Subtotal	0.000	-		1.142		0.700		-		0.700	0.000	1.842	0.000
Test and Evaluation ((\$ in Milli	ions)		FY	2016	FY 2	2017	FY 2 Bas			2018 CO	FY 2018 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
Follow on Delta Development & Testing	RO	EPG : Ft. Huachuca	0.000	-		2.447		-		-		-	0.000	2.447	0.000
Follow on Delta Development & Testing (2)	RO	OTC : TBD	0.000	-		10.874		8.739		-		8.739	0.000	19.613	0.000
		Subtotal	0.000	-		13.321		8.739		-		8.739	0.000	22.060	0.000
			Prior Years	FY	2016	FY 2	2017	FY 2 Ba			2018 CO	FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	_		14.819		10.039		_		10.039	0.000	24.858	_

PE 0605042A: *Tactical Network Radio Systems (Low-Tier...* Army

Exhibit R-4, RDT&E Schedule Profile: FY 2018 Arr	ny																		D	ate:	: Ma	ay 2	2017				
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier) Project (Number/Name) FA1 / Manpack Radio																						
Event Name		_	2016			Y 2017			FY 2		$\overline{}$			2019	_			202		-	FY					20:	
Manpack (MP) Customer Test (CT)	1	2	3	4	1 :	2 3 MP C1	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	: 3	3 4
MP Field Base Risk Reduction Test (FBRR)								IP FB	RR																		
MP Log Demo									MP L	og De	ema																
MP Operational Test (OT)												MP O	T														
(1) MP Full Rate Production (FRP)														MP	FRP												
MP Performance Verification Test (PVT) (FY19)													ı	MP F	PVT ((FY19)										
PVT (FY20)																		MPI	PVT (I	Y20	0)						
MP PVT (FY21)																					М	P PV	/Т (FY2	21)			
MP PVT (FY22)																									MP	PVT	(FY22
																								1			

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army	Date: May 2017		
,	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 3 (umber/Name) pack Radio

Schedule Details

	Si	tart	E	ind
Events	Quarter	Year	Quarter	Year
Manpack (MP) Customer Test (CT)	2	2017	4	2017
MP Field Base Risk Reduction Test (FBRR)	1	2018	2	2018
MP Log Demo	3	2018	3	2018
MP Operational Test (OT)	4	2018	2	2019
MP Full Rate Production (FRP)	3	2019	3	2019
MP Performance Verification Test (PVT) (FY19)	4	2019	4	2019
PVT (FY20)	4	2020	4	2020
MP PVT (FY21)	3	2021	4	2021
MP PVT (FY22)	3	2022	3	2022

Exhibit R-2A, RDT&E Project Ju		Date: May 2017										
Appropriation/Budget Activity 2040 / 5	_	am Elemen 12A / Tactica Low-Tier)	•	lumber/Name) eman Radio (RR)								
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
FA2: Rifleman Radio (RR)	-	0.000	4.005	10.037	-	10.037	3.825	11.164	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-					

Note

In coordination with G8 and the Army Budget Office, HMS PE 0604280A was realigned under PE 0605042A in PB17. The HMS program will execute funding under two separate project codes for Manpack Radio (Project Code FA1) and Rifleman Radio (Project Code FA2) beginning in FY 2017.

A. Mission Description and Budget Item Justification

HMS is structured as a single program of record. The HMS Handheld Radios encompass the one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR). The RR is a handheld radio that connects soldiers at the lowest echelon of the Army network. It is a National Security Agency (NSA) certified Type 1 radio used for transmission of up to SECRET information. The RR provides one-channel secure voice and data communications using Soldier Radio Waveform (SRW). It is the primary squad level communication system. The LR is a Multiband two-channel handheld radio to be used at the Team, Squad, and Platoon level. The LR will simultaneously support Single Channel Ground and Airborne Radio System (SINCGARS) voice interoperability and SRW data and voice communications in one radio with both handheld and mounted configurations.

On 13 September 2016 the Army Acquisition Executive (AAE) determined to decrease the Basis of Issue (BOI) for the single channel Rifleman Radio (RR), increase the BOI for the two channel Leader Radio (LR) and move forward with acquisition activities for the two channel LR. Single channel RR procurement is being deferred.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: Program Management	-	0.518	1.674
Description: Handheld's program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings.			
FY 2017 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Core, Matrix, and Contractor support.			
FY 2018 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Core, Matrix, and Contractor support.			
Title: HMS Engineering/Technical Support	-	0.067	0.300

UNCLASSIFIED Page 10 of 16

	UNCLASSIFIED						
Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		,	Date: N	/lay 2017			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A I Tactical Network Radio Systems (Low-Tier)	042A I Tactical Network Radio FA2 I Rifleman Radio (RR)					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018		
Description: Overall technical analysis support to PdM HMS' Hand	dheld products.						
FY 2017 Plans: Provide technical systems engineering support to evaluate technicate identify alternatives to reduce cost, improve performance, and adplanning and execution of laboratory and field test events, including (EDMs), commercial radio solutions, Developmental and Operation radio performance.	chieve tactical radio objectives. Technical test support for g support for testing of prototypes, Engineering Design M	r the lodels					
FY 2018 Plans: Provide technical systems engineering support to evaluate technicate identify alternatives to reduce cost, improve performance, and adplanning and execution of laboratory and field test events, including (EDMs), commercial radio solutions, Developmental and Operation radio performance.	chieve tactical radio objectives. Technical test support for g support for testing of prototypes, Engineering Design M	r the lodels					
Title: Test and Evaluation			-	3.420	8.06		
Description: Handheld's Test and Evaluation focuses on the evaluation: Radio Frequency performance, security, Reliability, Availal addition to operational environmental performance requirements as a contract will be required to go through the Qualification Test (QT) perform an Operational Test (OT) to ensure the radio is operational	bility & Maintainability, and survivability requirements, in s per the Capability Production Document. All radios awa to qualify for Verification Test (VT). Following VT HMS	ırded					
The QT will validate the manufacturer's ability to meet the minimum Requirements Document. Radios that successfully demonstrate ke as a risk reduction event for OT. The OT will include support from A scenarios based on the Operational Mode Summary / Mission Profivalidate that the HMS products meets the users' needs in terms of realistic environment. Results from the OT will facilitate the delivery	ey capabilities during QT will proceed to VT. The VT will see Army and DoD operational testers and will use communication of the system(s) under test. The OT will be designed the effectiveness, suitability and survivability in an operation	cation to					
FY 2017 Plans: Originally, the FY 2017 budget was to provide funding required for delta performance testing for the RR. The funding will also support prepare the products for fielding.							

UNCLASSIFIED

PE 0605042A: Tactical Network Radio Systems (Low-Tier... Army Page 11 of 16 R-1 Line #130

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army	D	Pate: May 2017	
, · · · · · · · · · · · · · · · · · · ·	, ,	Project (Num FA2 / Riflema	mber/Name) an Radio (RR)

eyeard (Earl May)			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Given program direction, the FY 2017 funding is needed to conduct testing for the LR candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release for FRP; and to fund the testing requirements on the LR candidate radios as laid out in the HMS Acquisition Strategy approved May 2014.			
FY 2018 Plans: The FY 2018 funding is needed to conduct testing for the LR candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release for FRP; and to fund the testing requirements on the LR candidate radios as laid out in the HMS Acquisition Strategy approved May 2014.			
Accomplishments/Planned Programs Subtotals	-	4.005	10.037

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

			FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	Base	OCO	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cost
 PE: 0605042A, 	-	14.819	10.039	-	10.039	3.826	5.088	11.003	11.164	Continuing	Continuing
FA-1: Manpack Radio											
• RDTE: 0604280A: <i>DZ5</i>	4.415	-	_	-	-	-	-	-	-	0.000	4.415
• OPA: B90000, B90210:	29.509	-	_	-	-	-	-	-	-	0.000	29.509
JTRS Cluster 5 (Handheld)											
• OPA: B90000, B90215:	25.131	-	_	-	-	-	-	-	-	0.000	25.131
JTRS (Manpack)											
• OPA: B95004, B95006:	-	43.734	37.773	-	37.773	53.511	60.951	85.020	73.255	Continuing	Continuing
Handheld Radio											
• OPA: B95004,	-	229.911	317.578	-	317.578	305.005	338.962	317.760	401.571	Continuing	Continuing
B95007: Manpack Radio											

Remarks

Army

HMS RDTE funding for FY 2016 and prior is held under PE 0604280A Joint Tactical Radios. HMS Procurement funding for FY 2016 and prior is held under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack). Due to a request to provide more transparency into the program, HMS RDTE funding beginning in FY 2017 will move to PE 0605042A Tactical Network Radio Systems (Low-Tier): FA1 Manpack Radio and FA2 Rifleman Radio. HMS Procurement funding beginning in FY 2017 will move to SSN B95004 Handheld Manpack Small Form Fit: SSN B95006 Handheld and SSN B95007 Manpack.

D. Acquisition Strategy

HMS is currently executing a May 2014 approved acquisition strategy to procure Non-Developmental Items (NDI) through full and open competition open to all potential industry partners. On 13 September 2016 the Army Acquisition Executive (AAE) determined to decrease the Basis of Issue (BOI) for the single channel Rifleman Radio

PE 0605042A: Tactical Network Radio Systems (Low-Tier...

Page 12 of 16

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army	D	Pate: May 2017	
, · · · · · · · · · · · · · · · · · · ·	, ,	Project (Num FA2 / Riflema	mber/Name) an Radio (RR)

(RR), increase the BOI for the two channel Leader Radio (LR) and move forward with acquisition activities for the two channel LR. Single channel RR procurement is being deferred however the contractual vehicles still exist.

HMS is in the process of amending the currently approved acquisition strategy to include the two channel LR. The intent is to continue the multi-vendor approach utilizing the existing IDIQ RR base contract (awarded 29 April 2015) and lessons learned to award the LR competitive contracts. The LR effort will be a separate competition under the Handheld radio suite.

The LR will simultaneously run the Soldier Radio Waveform (SRW) and Single Channel Ground and Airborne Radio System (SINCGARS) - Army managed waveforms.

The Army will award Firm Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) Contracts and will procure radios through a multiple step selection process:

- a. Award FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (4QFY17)
- b. Award initial delivery orders based on Qualification Test results (3QFY18)
- c. Award FRP delivery orders based on Operational Test and best value trade off construct (3QFY19)

E. Performance Metrics

N/A

Army

PE 0605042A: Tactical Network Radio Systems (Low-Tier... UNCLASSIFIED

Exhibit R-3, RDT&E F			O 10 Ailliy	<u>′</u>							1		May 2017			
Appropriation/Budge 2040 / 5	t Activity	1				PE 060		actical N	umber/Network Re			(Numbei ifleman R				
Management Service	s (\$ in M	illions)		FY	2016	FY 2017			FY 2018 Base Award Cost Date Co		018 CO	FY 2018 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Cost Date				Award Date	Cost	Cost To	Total Cost	Target Value o Contrac	
Project Management Office Support	TBD	PEO C3T, CECOM, PM TR Alliant : Various; APG, MD	0.000	-		0.518		1.674		-		1.674	0.000	2.192	0.00	
	I.	Subtotal	0.000	-		0.518		1.674		-		1.674	0.000	2.192	0.00	
Support (\$ in Millions	s)			FY:	2016	FY 2	2017		2018 Ise	FY 2		FY 2018 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	Total Cost	Target Value o Contrac	
HMS Engineering/ Technical Support	TBD	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC : Various	0.000	-		0.067		0.300		-		0.300	0.000	0.367	0.00	
		Subtotal	0.000	-		0.067		0.300		-		0.300	0.000	0.367	0.00	
Test and Evaluation ((\$ in Milli	ons)		FY	2016	FY 2	2017		2018 ise	FY 2		FY 2018 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	Total Cost	Target Value o Contrac	
Follow on Delta Development & Testing	RO	EPG : Fort Huachuca	0.000	-		2.770		2.100		-		2.100	0.000	4.870	0.00	
Follow on Delta Development & Testing (2)	TBD	OTC : TBD	0.000	-		0.650		5.963		-		5.963	0.000	6.613	0.00	
		Subtotal	0.000	-		3.420		8.063		-		8.063	0.000	11.483	0.00	
			Prior Years	FY	2016	FY 2018 FY 2017 Base		FY 2017					FY 2018 Total	Cost To Complete	Total Cost	Target Value o Contrac
		Project Cost Totals	0.000	-		4.005		10.037		-		10.037	0.000	14.042	-	

PE 0605042A: *Tactical Network Radio Systems (Low-Tier...* Army

UNCLASSIFIED
Page 14 of 16

Exhibit R-4, RDT&E Schedule Profile: FY 2018 Arm	у																			Di	ate:	Ma	ay 2	017			
Appropriation/Budget Activity 2040 / 5							R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)										Project (Number/Name) FA2 I Rifleman Radio (RR)										
Event Name		FY 2016 FY 2017 FY 2018 FY 2019								FY 2020			-		202	-		2022									
(A) I - I - B - F - (I B) B - I I - B I (BEB)	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
(1) Leader Radio (LR) Release For Proposal (RFP)							LRI	RFP																			
(2) LR Contract Award								2 Contra	ct A	\war	d																
LR Qualification Test (QT)									L	R Q1	 																
LR Verification Test											LRV	T															
LR Log Demo													og D)emc	,												
LR Operational Test (OT)													RO														
(3) LR Full Rate Production (FRP)																A LRI	RP										
LR Performance Verification Test (PVT)																		LR	PVT	(FY2	D)						
LR PVT FY2021																						R P\	/T (F	Y21)			
LR PVT FY2022																										LR P	VT (FY2

PE 0605042A: *Tactical Network Radio Systems (Low-Tier...* Army

UNCLASSIFIED
Page 15 of 16

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army	Date: May 2017		
,		-,	umber/Name) man Radio (RR)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Leader Radio (LR) Release For Proposal (RFP)	3	2017	3	2017
LR Contract Award	4	2017	4	2017
LR Qualification Test (QT)	2	2018	2	2018
LR Verification Test	3	2018	4	2018
LR Log Demo	1	2019	1	2019
LR Operational Test (OT)	4	2018	2	2019
LR Full Rate Production (FRP)	4	2019	4	2019
LR Performance Verification Test (PVT)	3	2020	4	2020
LR PVT FY2021	2	2021	3	2021
LR PVT FY2022	3	2022	3	2022