Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army

Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

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

Development & Demonstration (SDD)

PE 0604280A I Joint Tactical Radio

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	-	31.809	9.832	-	9.832	4.546	-	-	-	-	46.187
162: Network Enterprise Domain (NED)	-	-	26.203	-	-	-	-	-	-	-	-	26.203
DZ5: Handheld, Manpack and Small Form Fit (JTRS HMS)	-	-	5.606	9.832	-	9.832	4.546	-	-	-	-	19.984

[#] The FY 2015 OCO Request will be submitted at a later date.

Note

Army

FY2014 funding decrease represents a small adjustment to budget numbers, no significant impact. FY2015 funding provided in order to fund testing for the Manpack and Rifleman Radio full and open competition contracts in support of Full Rate Production.

A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the Special Operations Command (SOCOM), US Army, US Marine Corps, US Air Force and the US Navy communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS will be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record with two phases of development. Phase 1 developed the AN/PRC-154 Rifleman Radio, SFF-A (one and two channel) and SFF-D radios for use in a sensitive but unclassified environment. Phase 2 developed the AN/PRC-155 Manpack and embedded SFF-B, both of which are compliant for use in a classified environment. The AN/PRC-154 Rifleman Radio was modified via an engineering change proposal (ECP) to leverage advances in technology to provide the AN-PRC-154A encrypted secret and below capable radio. Waveforms to be ported to HMS Manpack include: SRW, Single Channel Ground to Air Radio System (SINCGARS), Satellite Communications (SATCOM), and Mobile-User Objective System (MUOS).

The FY 2015 budget will provide funding that is necessary to execute the required full and open competition contract strategy for the Rifleman and Manpack products. Specifically, the funding is needed to conduct Qualification Tests for both radios and the Rifleman Radio Operational Assessment of the candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; and to obtain material release. The funding will also support safety, spectrum supportability, and other certifications necessary to prepare the products for fielding.

PE 0604280A: Joint Tactical Radio

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army

Appropriation/Budget Activity

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

Development & Demonstration (SDD)

R-1 Program Element (Number/Name)
PE 0604280A I Joint Tactical Radio

Date: March 2014

FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
-	31.826	0.647	-	0.647
-	31.809	9.832	-	9.832
-	-0.017	9.185	-	9.185
-	-			
-	-			
-	-			
-	-			
-	-			
-	-			
-	-			
-	-0.017	9.185	-	9.185
	- -	- 31.826 - 31.809 0.017 	- 31.826 0.647 - 31.809 9.8320.017 9.185	- 31.826 0.647 - 31.809 9.832

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 <i>A</i>	Army							Date: Mar	ch 2014	
Appropriation/Budget Activity 2040 / 5		_		i t (Number / Tactical Rad	lumber/Name) vork Enterprise Domain (NED)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
162: Network Enterprise Domain (NED)	-	-	26.203	-	-	-	-	-	-	-	-	26.203
Quantity of RDT&E Articles	-	-	-	-	_	_	_	-	-	-		

[#] The FY 2015 OCO Request will be submitted at a later date.

Note

Prior to FY 2014, JTRS HMS was funded under Program Element (PE) 0604280N aligned under the Navy Joint Tactical Radio System (JTRS) Programs. In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Records (PORs) transitioned to a Military Department-managed program. JTRS HMS is now associated with Army Program Executive Office Command, Control and Communications-Tactical (PEO C3T) under Project Manager Tactical Radios (PM TR) PE 0604280A.

FY 2014 HMS funding is shared between Budget Items DZ5 and 162 under PE 0604280A; FY 2015-2016 HMS funding is in Budget Item DZ5 only.

A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the Special Operations Command (SOCOM), US Army, US Marine Corps, US Air Force and the US Navy communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS will be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record with two phases of development. Phase 1 developed the AN/PRC-154 Rifleman Radio, SFF-A (one and two channel) and SFF-D radios for use in a sensitive but unclassified environment. Phase 2 developed the AN/PRC-155 Manpack and embedded SFF-B, both of which are compliant for use in a classified environment. The AN/PRC-154 Rifleman Radio was modified via an engineering change proposal (ECP) to leverage advances in technology to provide the AN-PRC-154A encrypted secret and below capable radio. Waveforms to be ported to HMS Manpack include: SRW, Single Channel Ground to Air Radio System (SINCGARS), Satellite Communications (SATCOM), and Mobile-User Objective System (MUOS).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: JTRS Network Enterprise Domain	-	26.203	-
Articles:	-	-	-

PE 0604280A: Joint Tactical Radio

Army

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Exhibit R-2A, RDT&E Project Justi	ification: PB	2015 Army							Date: M	arch 2014	
Appropriation/Budget Activity 2040 / 5						nent (Numb int Tactical F			(Number/N etwork Enter	ame) rprise Doma	in (NED)
B. Accomplishments/Planned Pro-	grams (\$ in I	Millions, Art	ticle Quantit	ties in Each)				FY 2013	FY 2014	FY 2015
Description: Handheld, Manpack, a Communications Architecture (SCA) waveforms (applications). HMS is ar the Special Operations Command (SHMS provides voice and data commalt, and stationary Line of Sight (LCHMS radios are software re-program video communications. The embeddiplatform applications. HMS Increment 1 is structured as a the AN/PRC-154 Rifleman Radio, SI environment. Increment 1, Phase 2 for use in a classified environment. To leverage advances in technology ported to HMS Manpack include: SR (SATCOM), and Mobile-User Object	o compliant hat a Acquisition (SOCOM), US nunications to OS)/ Beyond Lamable, networkled Small For single prograff-A (one and developed the The AN/PRC-to provide the RW, Single Ch	ardware system Category (All Army, US Months that the tactical Line of Sight orkable multion factor (Sight of two channes AN/PRC-1 154 Riflemanes AN-PRC-1 annel Ground Category (Control of the tage of tage	em hosting SCAT) ID Programmer Corps edge/most d (BLOS) cap i-mode systems with two pharel) and SFF-55 Manpack in Radio was 54A encrypter	SCA-complia gram that en , US Air Ford isadvantage ability for both em (of system of HMS will ases of devel D radios for and embedo modified via ed secret and	ant Governm compasses be and the L d Warfighter th dismountins) capable be used for opment. Incuse in a ser ded SFF-B, a an engineed below cap	ent purpose specific requise Navy common with an on the personner of simultane Unmanned Varement 1, Physitive but un both of which ering change able radio. V	rights softwanirements to munication reposal (Edward of the move) and platformous voice, downward of the modern are compliant of the motor of the mo	are support needs. the ns. ata and other oped ant CP)			
FY 2014 Plans: Complete Phase 2 Government Dev for Phase 2 radios with Mobile User Navy MUOS End to End Demonstra Manpack; Complete Phase 1 Opera technical and engineering support fo	Objective Systion, and Multional Test; C	stem (MUOS tiservice Ope omplete Pha	S) capability; erational Tes ase 2 Follow	Perform GD st & Evaluation on Operation	T, including on (MOTE) v nal Test & E	the participa with MUOS w Evaluation (F	ation in the vaveform on OT&E); and	the provide			
				Accon	nplishment	s/Planned P	rograms Su	ıbtotals	-	26.203	-
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
l ing Ham	EV 2042	EV 2044	FY 2015	FY 2015	FY 2015	EV 2046	EV 2047	EV 2040	EV 2040	Cost To	_
Line Item • OPA: B90210: JTRS Cluster 5 (Handheld)	FY 2013 40.278	FY 2014 34.200	<u>Base</u> 35.200	<u>OCO</u> -	<u>Total</u> 35.200	FY 2016 49.200	FY 2017 64.175	FY 2018 63.394			2 Total Cos 394.40
• OPA: B90215: JTRS (Manpack)	251.489	315.800	140.511	-	140.511	333.515	317.323	329.615	443.102	-	2,131.35

PE 0604280A: Joint Tactical Radio

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 5	PE 0604280A I Joint Tactical Radio	162 I Network Enterprise Domain (NED)

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

<u>FY 2015</u> <u>FY 2015</u> <u>FY 2015</u> <u>Cost To</u>

Line Item FY 2013 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 FY 2019 Complete Total Cost

Remarks

HMS RDTE funding for FY 2013 and prior can be found under Program Element (PE) 0604280N, Budget Submission BA5 aligned under the Navy Joint Tactical Radio System (JTRS) Programs. HMS procurement funding for FY 2014 and prior can be found under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack).

President's Budget (PB) FY 2013 included the following programs' funding in Budget Item 162: Network Enterprise Domain (NED), Handheld Manpack Small Form Fit (HMS), Airborne Maritime Fixed (AMF), and Multifunctional Information Distribution System (MIDS). At the time of PB 2014, all programs associated with this line with the exception of JTRS HMS have been moved to their own PE lines. NED program has been moved to PE 0605030A along with the amount of \$23.621 million, AMF program has been moved to PE 0605380A along with the amount of \$30.719 million, MIDS program has been moved to PE 0205604N along with the amount of \$1.236 million. JTRS HMS currently owns PE 0604280A and both associated Project Codes under it: 162 Network Enterprise Domain (NED) and DZ5 Handheld Manpack and Small Form Fit (HMS). Starting in FY 2015, all future funding requests for JTRS HMS will be included in Project Code DZ5.

D. Acquisition Strategy

This project supports completion of the HMS Engineering and Manufacturing Development phase efforts and execution of the HMS acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. The HMS Program received Milestone (MS) C approval on 17 June 2011. The HMS modified NDI acquisition strategy will deliver NSA certified capabilities. Following full and open competition, qualified NDI Rifleman and Manpack radios will require operationally-relevant testing to inform a FRP decision and to support fielding to Capability Set (CS) units. The contract will be Firm Fixed Price (FFP). The minimum set of waveforms to be supported on the HMS Manpack include: Satellite Communications (SATCOM), Soldier Radio Waveform (SRW), Mobile User Objective System (MUOS), and Single Channel Ground to Air Radio System (SINCGARS) waveforms.

E. Performance Metrics

N/A

Army

PE 0604280A: Joint Tactical Radio

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2015 Army	y								Date:	March 20	14	
Appropriation/Budg 2040 / 5	et Activity	/							lumber/N ical Radio			(Number	r/ Name) terprise D	omain (l	NED)
Management Servic	es (\$ in M	lillions)		FY 2	2013	FY 2	014		2015 ase		2015 CO	FY 2015 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	Various	PEO C3T & CECOM: : APG, MD	0.000	-		1.193		-		-		-	-	1.193	1.193
		Subtotal	0.000	-		1.193		-		-		-	-	1.193	1.193
Product Developme	nt (\$ in M	illions)		FY 2	2013	FY 2	014		2015 ase		2015 CO	FY 2015 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 JTRS System, Design & Development	C/CPAF	General Dynamics C4 Systems: : Scottsdale, AZ	0.000	-		7.715		-		-		-	-	7.715	7.715
		Subtotal	0.000	-		7.715		-		-		-	-	7.715	7.715
Support (\$ in Million	ns)			FY 2	2013	FY 2	014		2015 ase		2015 CO	FY 2015 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 JTRS Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC, Various: : APG, MD; Various	0.000	-		5.000		-		-		-	-	5.000	5.000
		Subtotal	0.000	-		5.000		-		-		-	-	5.000	5.000
Test and Evaluation	(\$ in Milli	ions)		FY 2	2013	FY 2	014		2015 ase		2015 FY 2015 CO 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	Various	EPG, AEC, MBL, ARLSLAD, CERDEC, OTC, JITC:: Ft. Benning,	0.000	-		12.295		-		-		-	-	12.295	12.295

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Army

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Arm	y			Date: Marc	ch 2014			
Appropriation/Budget Activity 2040 / 5		gram Element (Number/N 4280A / Joint Tactical Radio	,	Project (Number/Name) 162 I Network Enterprise Domain (NE				
Tost and Evaluation (\$ in Millions)		FY 2015	FY 2015	FY 2015				

FY 2014

FY 2013

Cost Category Item	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	Value of Contract
	7,1	GA; APG, MD;													
		Various													
		Subtotal	0.000	-		12.295		-		-		-	-	12.295	12.295
			Prior Years	FY:	2013	FY 2	2014		2015 ase		2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals		-		26.203		-		-		-	-	26.203	26.203

Remarks

Test and Evaluation (\$ in Millions)

Contract

PE 0604280A: Joint Tactical Radio Army

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R-1 Line #82

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Total

Target

Base

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5		,	umber/Name) ork Enterprise Domain (NED)

		FY 2013 FY 2014					FY 2015 FY 2016			FY 2017			FY 2018			3	FY 2019											
	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
Manpack Government Developmental Test 4 (POR LRIP)									•							'		'		'								-
Manpack MUOS Customer Development Test (POR LRIP)																												
Manpack Operational Test (POR LRIP)																												
Manpack Government Developmental Test with MUOS								I																				
Rifleman Radio Operational Test (POR LRIP)																												
Manpack MUOS MOTE																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	,	, ,	umber/Name)
2040 / 5	PE 0604280A I Joint Tactical Radio	10∠ / Netw	ork Enterprise Domain (NED)

Schedule Details

	St	art	Er	nd
Events	Quarter	Year	Quarter	Year
Manpack Government Developmental Test 4 (POR LRIP)	2	2014	2	2014
Manpack MUOS Customer Development Test (POR LRIP)	2	2014	2	2014
Manpack Operational Test (POR LRIP)	2	2014	3	2014
Manpack Government Developmental Test with MUOS	3	2014	3	2014
Rifleman Radio Operational Test (POR LRIP)	3	2014	3	2014
Manpack MUOS MOTE	3	2014	3	2014

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2015 A	Army							Date: Mar	ch 2014	
Appropriation/Budget Activity 2040 / 5					_	am Elemen 30A / Joint 7	•	•			ne) pack and Sm	nall Form
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DZ5: Handheld, Manpack and Small Form Fit (JTRS HMS)	-	-	5.606	9.832	-	9.832	4.546	-	-	-	-	19.984
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

[#] The FY 2015 OCO Request will be submitted at a later date.

Note

Prior to FY 2014, JTRS HMS was funded under Program Element (PE) 0604280N aligned under the Navy Joint Tactical Radio System (JTRS) Programs. In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Records (PORs) transitioned to a Military Department-managed program. JTRS HMS is now associated with Army Program Executive Office Command, Control and Communications-Tactical (PEO C3T) under Project Manager Tactical Radios (PM TR) PE 0604280A.

FY 2014 HMS funding is shared between Budget Items DZ5 and 162 under PE 0604280A; FY 2015-2016 HMS funding is in Budget Item DZ5 only.

A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the Special Operations Command (SOCOM), US Army, US Marine Corps, US Air Force and the US Navy communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS will be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record with two phases of development. Phase 1 developed the AN/PRC-154 Rifleman Radio, SFF-A (one and two channel) and SFF-D radios for use in a sensitive but unclassified environment. Phase 2 developed the AN/PRC-155 Manpack and embedded SFF-B, both of which are compliant for use in a classified environment. The AN/PRC-154 Rifleman Radio was modified via an engineering change proposal (ECP) to leverage advances in technology to provide the AN-PRC-154A encrypted secret and below capable radio. Waveforms to be ported to HMS Manpack include: SRW, Single Channel Ground to Air Radio System (SINCGARS), Satellite Communications (SATCOM), and Mobile-User Objective System (MUOS).

The FY 2015 budget will provide funding that is necessary to execute the required full and open competition contract strategy for the Rifleman and Manpack products. Specifically, the funding is needed to conduct Qualification Tests for both radios and the Rifleman Radio Operational Assessment of the candidate products to

PE 0604280A: Joint Tactical Radio

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army			Date: N	1arch 2014	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A I Joint Tactical Radio	DZ5 /	ct (Number/l Handheld, M TRS HMS)	Name) Janpack and S	Small Form
demonstrate compliance with program requirements; assess effectivenes safety, spectrum supportability, and other certifications necessary to prep		ial relea	se. The fund	ing will also s	upport
B. Accomplishments/Planned Programs (\$ in Millions, Article Quanti	ties in Each)		FY 2013	FY 2014	FY 2015
Title: HMS JTRS	A	rticles:	-	5.606 -	9.83
Description: Handheld, Manpack, and Small Form Fit (HMS) is a material Communications Architecture (SCA) compliant hardware system hosting waveforms (applications). HMS is an Acquisition Category (ACAT) ID Prothe Special Operations Command (SOCOM), US Army, US Marine Corps HMS provides voice and data communications to the tactical edge/most dhalt, and stationary Line of Sight (LOS)/ Beyond Line of Sight (BLOS) cap HMS radios are software re-programmable, networkable multi-mode systevideo communications. The embedded Small Form Factor (SFF) versions platform applications. HMS Increment 1 is structured as a single program of record with two phathe AN/PRC-154 Rifleman Radio, SFF-A (one and two channel) and SFF-environment. Increment 1, Phase 2 developed the AN/PRC-155 Manpack for use in a classified environment. The AN/PRC-154 Rifleman Radio was to leverage advances in technology to provide the AN-PRC-154A encrypt ported to HMS Manpack include: SRW, Single Channel Ground to Air Rad (SATCOM), and Mobile-User Objective System (MUOS).	SCA-compliant Government purpose rights softwater and that encompasses specific requirements to see, US Air Force and the US Navy communication in disadvantaged Warfighter with an on the move, at the ability for both dismounted personnel and platformem (of systems) capable of simultaneous voice, days of HMS will be used for Unmanned Vehicles and assess of development. Increment 1, Phase 1 development and embedded SFF-B, both of which are compliants and embedded SFF-B, both of which are compliants modified via an engineering change proposal (EC) ted secret and below capable radio. Waveforms to	eds. the ns. ata and other oped int CP)			
FY 2014 Plans: Complete Phase 2 Government Developmental Test (GDT) and developmental Phase 2 radios with Mobile User Objective System (MUOS) capability; Navy MUOS End to End Demonstration, and Multiservice Operational Test Manpack; Complete Phase 1 Operational Test; Complete Phase 2 Follow technical and engineering support for development efforts including preparaty 2015 Plans:	; Perform GDT, including the participation in the st & Evaluation (MOTE) with MUOS waveform on v-on Operational Test & Evaluation (FOT&E); and p	the provide			
The FY 2015 budget will provide funding that is necessary to execute the the Rifleman and Manpack products. Specifically, the funding is needed to the Rifleman Radio Operational Assessment of the candidate products to	o conduct Qualification Tests for both radios and a	ind			

PE 0604280A: Joint Tactical Radio

,	Project (Number/Name)	R-1 Program Element (Number/Name)	Appropriation/Budget Activity
ack and Small Form	DZ5 I Handheld, Manpack and Sn Fit (JTRS HMS)	PE 0604280A I Joint Tactical Radio	2040 / 5
	Fit (JTRS HMS)		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
assess effectiveness, suitability, and survivability; and to obtain material release. The funding will also support safety, spectrum supportability, and other certifications necessary to prepare the products for fielding.			
Accomplishments/Planned Programs Subtotals	-	5.606	9.832

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

		-	FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	<u>000</u>	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
 OPA: B90210: JTRS 	40.278	34.200	35.200	-	35.200	49.200	64.175	63.394	107.954	-	394.401
Cluster 5 (Handheld)											
• OPA: B90215: JTRS (Manpack)	251.489	315.800	140.511	-	140.511	333.515	317.323	329.615	443.102	-	2,131.355

Remarks

HMS RDTE funding for FY 2013 and prior can be found under Program Element (PE) 0604280N, Budget Submission BA5 aligned under the Navy Joint Tactical Radio System (JTRS) Programs. HMS procurement funding for FY 2014 and prior can be found under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack).

D. Acquisition Strategy

This project supports completion of the HMS Engineering and Manufacturing Development phase efforts and execution of the HMS acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. The HMS Program received Milestone (MS) C approval on 17 June 2011. The HMS modified NDI acquisition strategy will deliver NSA certified capabilities. Following full and open competition, qualified NDI Rifleman and Manpack radios will require operationally-relevant testing to inform a FRP decision and to support fielding to Capability Set (CS) units. The contract will be Firm Fixed Price (FFP). The minimum set of waveforms to be supported on the HMS Manpack include: Satellite Communications (SATCOM), Soldier Radio Waveform (SRW), Mobile User Objective System (MUOS), and Single Channel Ground to Air Radio System (SINCGARS) waveforms.

E. Performance Metrics

N/A

Army

PE 0604280A: Joint Tactical Radio

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	015 Army	1								Date:	March 20	14	
Appropriation/Budge 2040 / 5	et Activity	/						ement (No Hoint Taction		ame)	DZ5 / H	(Number landheld, RS HMS)		and Sma	ll Form
Management Service	es (\$ in M	lillions)		FY 2	2013	FY 2	014	FY 2 Ba			2015 CO	FY 2015 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 Contrac
Project Management Office Support	Various	PEO C3T & CECOM: : APG, MD	0.000	-		0.255		0.265		-		0.265	0.208	0.728	0.72
		Subtotal	0.000	-		0.255		0.265		-		0.265	0.208	0.728	0.72
Product Developme	nt (\$ in M	illions)		FY 2	2013	FY 2	014	FY 2 Ba			2015 CO	FY 2015 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 JTRS System, Design & Development	C/CPAF	General Dynamics D4 Systems: : Scottsdale, AZ	0.000	-		1.650		-		-		-	-	1.650	1.65
		Subtotal	0.000	-		1.650		-		-		-	-	1.650	1.65
Support (\$ in Million	ıs)			FY 2	2013	FY 2	014	FY 2 Ba			2015 CO	FY 2015 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 JTRS Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC, Various: : APG, MD; Various	0.000	-		1.070		1.113		-		1.113	1.090	3.273	3.27
		Subtotal	0.000	-		1.070		1.113		-		1.113	1.090	3.273	3.27
Test and Evaluation	(\$ in Milli	ions)		FY 2	2013	FY 2	014	FY 2			2015 CO	FY 2015 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	Various	EPG, AEC, MBL, ARLSLAD, CERDEC, OTC, JITC, Various: : Ft	0.000	-		2.631		8.454		-		8.454	3.248	14.333	14.33

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Exhibit R-3, RDT&E Project Cost Analysis: PB	2015 Army				Date: March	2014
Appropriation/Budget Activity 2040 / 5		_	lement (Number/N Joint Tactical Radio	DZ5	ect (Number/Name I Handheld, Manpa TRS HMS)	ck and Small Form
Test and Evaluation (\$ in Millions)	EV 2042	EV 2044	FY 2015	FY 2015	FY 2015	

Test and Evaluation	(\$ in Milli	ons)		FY	2013	FY 2	2014		2015 ase		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location Huachuca, AZ; Ft Benning, GA; APG, MD; Various	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	-		2.631		8.454		-		8.454	3.248	14.333	14.333
			Prior					FY:	2015	FY	2015	FY 2015	Cost To	Total	Target

	Prior Years	FY 2	2013	FY 2	014	FY 2 Ba	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		5.606		9.832	-	9.832	4.546	19.984	19.984

Remarks

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xhibit R-4, RDT&E Schedule Profile: PB 2015 A	rmy																					Da	ate:	Ма	rch	201	4		
ppropriation/Budget Activity 040 / 5								R-1 I									me)	DZ	Z5 / I	t (N Hand RS I	dhe	eld,				nd S	Sma	II Fo
		FY :	2013	3		FY 2	014	4		FY 2	2015	;		FY	201	6		FY	201	7		F١	Y 20)18			FY 2	019)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2	3	4	1	2	3	4
Manpack Government Developmental Test 4 (POR LRIP)																													
Manpack MUOS Customer Development Test (POR LRIP)																													
Manpack Operational Test (POR LRIP)																													
Manpack Government Developmental Test with MUOS																													
Rifleman Radio Operational Test (POR LRIP)																													
Manpack MUOS MOTE																													
Rifleman Radio Qualification Test (FOC)																													
Manpack Qualification Test (FOC)																													•
Rifleman Radio Operational Assessment (FRP)																													
Manpack Operational Assessment (FRP)																													
Rifleman Radio Follow-on Test (FOC)																													•

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	- 3 (umber/Name) dheld, Manpack and Small Form HMS)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Manpack Government Developmental Test 4 (POR LRIP)	2	2014	2	2014
Manpack MUOS Customer Development Test (POR LRIP)	2	2014	2	2014
Manpack Operational Test (POR LRIP)	2	2014	3	2014
Manpack Government Developmental Test with MUOS	3	2014	3	2014
Rifleman Radio Operational Test (POR LRIP)	3	2014	3	2014
Manpack MUOS MOTE	3	2014	3	2014
Rifleman Radio Qualification Test (FOC)	1	2015	1	2015
Manpack Qualification Test (FOC)	3	2015	3	2015
Rifleman Radio Operational Assessment (FRP)	3	2015	4	2015
Manpack Operational Assessment (FRP)	3	2016	4	2016
Rifleman Radio Follow-on Test (FOC)	3	2016	3	2016