

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604280A / 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

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 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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army				Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				
B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		-	31.826	0.647	-	0.647
Current President's Budget		-	31.809	9.832	-	9.832
Total Adjustments		-	-0.017	9.185	-	9.185
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Adjustments to Budget Years		-	-0.017	9.185	-	9.185

UNCLASSIFIED

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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				Project (Number/Name) 162 / Network Enterprise Domain (NED)				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
<p>Description: 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.</p> <p>HMS Increment 1 is structured as a single program of record with two phases of development. Increment 1, 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. Increment 1, 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).</p> <p>FY 2014 Plans: Complete Phase 2 Government Developmental Test (GDT) and development efforts; Receive Information Assurance certification for Phase 2 radios with Mobile User Objective System (MUOS) capability; Perform GDT, including the participation in the Navy MUOS End to End Demonstration, and Multiservice Operational Test & Evaluation (MOTE) with MUOS waveform on the Manpack; Complete Phase 1 Operational Test; Complete Phase 2 Follow-on Operational Test & Evaluation (FOT&E); and provide technical and engineering support for development efforts including preparing for Full Rate Production (FRP) for Phase 1 & 2.</p>												
Accomplishments/Planned Programs Subtotals										-	26.203	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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 Cos	
• OPA: B90210: JTRS Cluster 5 (Handheld)	40.278	34.200	35.200	-	35.200	49.200	64.175	63.394	107.954	-	394.401	
• OPA: B90215: JTRS (Manpack)	251.489	315.800	140.511	-	140.511	333.515	317.323	329.615	443.102	-	2,131.355	

UNCLASSIFIED

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

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
------------------	----------------	----------------	-------------------------------	------------------------------	--------------------------------	----------------	----------------	----------------	----------------	-----------------------------------	-------------------

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

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				Project (Number/Name) 162 / Network Enterprise Domain (NED)					
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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 Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
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 Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
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 Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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: : Ft. Benning,	0.000	-		12.295		-		-		-	-	12.295	12.295

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army													Date: March 2014		
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				Project (Number/Name) 162 / Network Enterprise Domain (NED)					
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
		GA; APG, MD; Various													
Subtotal			0.000	-		12.295		-		-		-	-	12.295	12.295
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		26.203		-		-		-	-	26.203	26.203
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army	Date: March 2014
--	-------------------------

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>	Project (Number/Name) 162 / <i>Network Enterprise Domain (NED)</i>
--	---	--

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				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																												
Rifleman Radio Operational Test (POR LRIP)																												
Manpack MUOS MOTE																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>	Project (Number/Name) 162 / <i>Network Enterprise Domain (NED)</i>	

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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				Project (Number/Name) DZ5 / Handheld, Manpack and Small Form Fit (JTRS HMS)			
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 and the Rifleman Radio Operational Assessment of the candidate products to

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014			
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio	Project (Number/Name) DZ5 / Handheld, Manpack and Small Form Fit (JTRS HMS)		
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.					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
Title: HMS JTRS			-	5.606	9.832
Articles:			-	-	-
<p>Description: 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.</p> <p>HMS Increment 1 is structured as a single program of record with two phases of development. Increment 1, 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. Increment 1, 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).</p> <p>FY 2014 Plans: Complete Phase 2 Government Developmental Test (GDT) and development efforts; Receive Information Assurance certification for Phase 2 radios with Mobile User Objective System (MUOS) capability; Perform GDT, including the participation in the Navy MUOS End to End Demonstration, and Multiservice Operational Test & Evaluation (MOTE) with MUOS waveform on the Manpack; Complete Phase 1 Operational Test; Complete Phase 2 Follow-on Operational Test & Evaluation (FOT&E); and provide technical and engineering support for development efforts including preparing for Full Rate Production (FRP) for Phase 1 & 2.</p> <p>FY 2015 Plans: 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 and the Rifleman Radio Operational Assessment of the candidate products to demonstrate compliance with program requirements;</p>					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>				Project (Number/Name) DZ5 / <i>Handheld, Manpack and Small Form Fit (JTRS HMS)</i>				
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)												
Line Item	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	
• OPA: B90210: <i>JTRS Cluster 5 (Handheld)</i>	40.278	34.200	35.200	-	35.200	49.200	64.175	63.394	107.954	-	394.401	
• OPA: B90215: <i>JTRS (Manpack)</i>	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												

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604280A / Joint Tactical Radio				Project (Number/Name) DZ5 / Handheld, Manpack and Small Form Fit (JTRS HMS)					
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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	-		0.255		0.265		-		0.265	0.208	0.728	0.728
Subtotal			0.000	-		0.255		0.265		-		0.265	0.208	0.728	0.728
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
HMS JTRS System, Design & Development	C/CPAF	General Dynamics D4 Systems: : Scottsdale, AZ	0.000	-		1.650		-		-		-	-	1.650	1.650
Subtotal			0.000	-		1.650		-		-		-	-	1.650	1.650
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
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	3.273
Subtotal			0.000	-		1.070		1.113		-		1.113	1.090	3.273	3.273
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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	14.333

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>				Project (Number/Name) DZ5 / <i>Handheld, Manpack and Small Form Fit (JTRS HMS)</i>					

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		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
		Huachuca, AZ; Ft Benning, GA; APG, MD; Various													
Subtotal			0.000	-		2.631		8.454		-		8.454	3.248	14.333	14.333

	Prior Years	FY 2013	FY 2014	FY 2015 Base	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

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army										Date: March 2014			
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>					Project (Number/Name) DZ5 / <i>Handheld, Manpack and Small Form Fit (JTRS HMS)</i>			

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				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																												
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)																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A / <i>Joint Tactical Radio</i>	Project (Number/Name) DZ5 / <i>Handheld, Manpack and Small Form Fit (JTRS HMS)</i>	

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