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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 0604280A I Joint Tactical 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
Total Program Element	-	4.415	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.415
DZ5: Handheld, Manpack and Small Form Fit (JTRS HMS)	-	4.415	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.415

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 materiel 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.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	4.546	0.000	0.000	-	0.000
Current President's Budget	4.415	0.000	0.000	-	0.000
Total Adjustments	-0.131	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.131	-			

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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
DZ5: Handheld, Manpack and Small Form Fit (JTRS HMS)	-	4.415	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.415
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

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

	FY 2016	FY 2017	FY 2018
Title: Test, Evaluation, Engineering, and PMO Support	4.415	-	-
Description: The Test and Evaluation focuses on the evaluation of key technical and operational characteristics of the system: Radio Frequency performance, security, Reliability, Availability & Maintainability, and survivability requirements, in addition to operational environmental performance requirements as per the Capability Production Document. All radios awarded a contract will be required to go through the Qualification Test (QT) to qualify for a Customer Test (CT) and gain eligibility to participate at the Initial Operational Test & Evaluation (IOT&E) to ensure the radio is operational at full capability and ready to be used by soldiers. The QT and CT will be executed by Electronic Proving Ground and will serve as risk reduction events prior to the IOT&E as opposed to developmental test to support incremental system improvement.			
The QT phase will facilitate selection of the radios able to participate in the CT. The QT will validate the manufacturer's ability to meet the minimum functional requirements identified in the Performance Requirements Document. Radios that successfully demonstrate key capabilities during QT will proceed to the CT; however, there will be an opportunity to re-enter competition during an On-Ramp phase in the future. The CT will serve as a risk reduction event for the IOT&E as data from this event will be considered for manufacturer down-select and an initial buy decision.			

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
The IOT&E will include support from Army and DoD operational testers and will use communication scenarios based on the Operational Mode Summary / Mission Profile of the system(s) under test. The operational tests will be designed to validate that the HMS products meets the users' needs in terms of effectiveness, suitability and survivability in an operationally realistic environment. Results from the IOT&E will facilitate the delivery orders for Full Rate Production.												
FY 2016 Accomplishments: The FY 2016 budget provided funding to continue executing the approved testing strategy. Specifically, the funding was used to partially fund the MP Qualification and Customer Tests. The remaining funding was used for PMO and Engineering Support.												
Accomplishments/Planned Programs Subtotals										4.415	-	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• RDTE: 0605042A, FA1: Manpack Radio	-	14.819	10.039	-	10.039	3.826	5.088	11.003	11.164	Continuing	Continuing	
• RDTE: 0605042A, FA2: Rifleman Radio	-	4.005	10.037	-	10.037	3.825	5.090	11.003	11.164	Continuing	Continuing	
• OPA: B90000, B90210: JTRS Cluster 5 (Handheld)	29.509	-	-	-	-	-	-	-	-	0.000	29.509	
• OPA: B90000, B90215: JTRS (Manpack)	25.131	-	-	-	-	-	-	-	-	0.000	25.131	
• OPA: B95004, B95006: Handheld Radio	-	43.734	37.773	-	37.773	53.511	60.951	85.020	73.255	Continuing	Continuing	
• OPA: B95004, B95007: Manpack Radio	-	229.911	317.578	-	317.578	305.005	338.962	317.760	401.571	Continuing	Continuing	
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.												

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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.		
E. Performance Metrics N/A		