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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army **Date:** February 2018

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	14.198	20.076	3.829	-	3.829	10.062	21.750	22.066	24.580	0.000	116.561
FA1: <i>Manpack Radio</i>	-	10.347	10.039	1.959	-	1.959	5.030	10.875	11.033	12.290	0.000	61.573
FA2: <i>Rifleman Radio (RR)</i>	-	3.851	10.037	1.870	-	1.870	5.032	10.875	11.033	12.290	0.000	54.988

A. Mission Description and Budget Item Justification

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a materiel solution providing software-defined radio systems that are tailorable and scalable to support the Chief of Staff of the Army's "fight tonight" strategy. 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. The program office will continue with the ongoing competition to procure the newest generation of software defined radios capable of running the threshold waveforms, to include MUOS for MP, and will pursue alternative waveforms to reduce the complexity of Mobile AdHoc Networking waveforms, improve spectral efficiency, and seek Electronic Counter-Countermeasures improvements for operations in contested environment.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	18.824	20.076	7.651	-	7.651
Current President's Budget	14.198	20.076	3.829	-	3.829
Total Adjustments	-4.626	0.000	-3.822	-	-3.822
• Congressional General Reductions	-4.059	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-0.560	-	-	-	-
• Adjustments to Budget Years	-	-	-3.822	-	-3.822
• FFRDC	-0.007	-	-	-	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)	
<u>Change Summary Explanation</u> FY 2019 budget reduction from \$7.651 Million to \$3.829 Million reflects MP radio reaching end of operational testing in preparation for full rate production.		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
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			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
FA1: Manpack Radio	-	10.347	10.039	1.959	-	1.959	5.030	10.875	11.033	12.290	0.000	61.573
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
HMS is structured as a single program of record. 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, Demand Assigned Multiple Access Satellite Communication, Mobile User Objective System (MUOS), and other advanced networking waveforms. 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 MP provides networking waveforms connectivity, Networked LOS / BLOS voice and data communications. The MP will serve as the vehicular and man-packable tactical LOS radio.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2017	FY 2018	FY 2019
Title: Program Management										0.312	0.600	0.450
Description: PdM HMS 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 2018 Plans: During this timeframe, will provide overall management and oversight to implement PdM HMS acquisition strategy. Includes Core, Matrix, and Contractor support.												
FY 2019 Plans: During this timeframe, will provide overall management and oversight to implement PdM HMS acquisition strategy. Includes Matrix and Contractor support.												
FY 2018 to FY 2019 Increase/Decrease Statement: The decrease in requirement is a result of the removal of Core support as this requirement will be covered with OMA funds starting in FY19.												
Title: HMS Engineering/Technical Support										1.142	0.700	0.700
Description: Overall technical analysis support to PdM HMS' Manpack products.												
FY 2018 Plans: To provide technical support, including systems engineering to evaluate technical alternatives and test support. System Engineering efforts includes: communication architecture analysis, identifying alternatives to reduce costs, improving system												

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>	Project (Number/Name) FA1 / <i>Manpack Radio</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
performance, and achieve tactical radio objectives. Technical test support includes: planning and execution of laboratory and field test events, support for testing of prototypes, Engineering Design Models (EDMs), commercial radio solutions, Developmental and Operational Test events, and data collection/reduction/analysis of tactical radio performance.			
FY 2019 Plans: To provide technical support, including systems engineering to evaluate technical alternatives and test support. System Engineering efforts includes: communication architecture analysis, identifying alternatives to reduce costs, improving system performance, and achieve tactical radio objectives. Technical test support includes: planning and execution of laboratory and field test events, support for testing of prototypes, Engineering Design Models (EDMs), commercial radio solutions, Developmental and Operational Test events, and data collection/reduction/analysis of tactical radio performance.			
Title: Test and Evaluation		8.893	8.739
Description: Manpack's Test and Evaluation focuses on the key technical and operational characteristics of the system: Radio Frequency performance, security, Reliability, Availability & Maintainability, suitability and survivability requirements, in addition to operational environmental performance requirements as per the Capability Production Document. All radios awarded a contract were required to go through the Qualification Test (QT) to qualify for a Customer Test (CT). Following CT there will be a Sandbox and Soldier Feedback Study and Field / Lab Based Risk Reduction Test (FBRR/LBRR) that will serve as risk reduction events prior to Operational Test (OT) to ensure the radio is operational at full capability and ready to be used by soldiers. The QT and CT are complete and were executed by Electronic Proving Ground.			0.809
The QT validated the manufacturers' ability to meet the minimum functional requirements identified in the Performance Requirements Document. All vendors successfully demonstrated key capabilities during QT and proceeded to the CT. The Sandbox, Soldier Feedback Study and FBRR/LBRR will serve as risk reduction events for delayed thresholds and OT. The OT 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 OT will be designed to validate that HMS products meet warfighter needs in terms of effectiveness, suitability and survivability in an operationally realistic environment. Results from OT will facilitate the delivery orders for Full Rate Production.			
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.			
FY 2019 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
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				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2017	FY 2018	FY 2019
The FY 2019 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 to FY 2019 Increase/Decrease Statement: The decrease in requirement is a result of the radio reaching the end of operational testing while approaching full rate production.												
Accomplishments/Planned Programs Subtotals										10.347	10.039	1.959
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• FA2: Rifleman Radio (RR)	3.851	10.037	1.870	-	1.870	5.032	10.875	11.033	12.290	0.000	54.988	
• B95006: Handheld Radio	43.734	37.773	79.802	-	79.802	102.959	92.940	95.091	92.653	0.000	544.952	
• B95007: Manpack Radio	224.388	317.578	271.763	-	271.763	413.805	402.038	453.968	505.349	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Manpack Radio 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, Mobile User Objective System (MUOS) - Navy managed waveform, and other advanced networking waveforms.												
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. Awarded second delivery orders based on Customer Test results (31 July 2017)												
d. Award LRIP (4QFY18)												
d. Award FRP delivery orders based on best value trade off construct (3QFY19)												
E. Performance Metrics												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
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					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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, PM TR Alliant : Various; APG, MD	-	0.312	Dec 2016	0.600		0.450	Dec 2018	-		0.450	0.000	1.362	-
Subtotal			-	0.312		0.600		0.450		-		0.450	0.000	1.362	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC : Various	-	1.142	Jan 2017	0.700		0.700	Jan 2019	-		0.700	0.000	2.542	-
Subtotal			-	1.142		0.700		0.700		-		0.700	0.000	2.542	N/A
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	-	2.447	Dec 2016	-		-		-		-	0.000	2.447	-
Follow on Delta Development & Testing (2)	RO	OTC : TBD	-	6.446	Mar 2018	8.739		0.809	Nov 2018	-		0.809	0.000	15.994	-
Subtotal			-	8.893		8.739		0.809		-		0.809	0.000	18.441	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.347		10.039		1.959		-		1.959	0.000	22.345	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army			Date: February 2018		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>		Project (Number/Name) FA1 / <i>Manpack Radio</i>	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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 (MP) Customer Test (CT)																												
MP CT																												
MP Sandbox and Soldier Feedback Study																												
MP Sandbox Event w/Soldier Feedback																												
MP Field/Lab Base Risk Reduction Test (FBRR/LBRR)																												
MP FBRR / LBRR																												
MP Operational Test (OT)																												
MP OT																												
MP LRIP																												
MP LRIP																												
MP Log Demo																												
MP Log Demo																												
MP Full Rate Production (FRP)																												
MP FRP																												
MP Performance Verification Test (PVT) (FY19)																												
MP PVT (FY19)																												
MP PVT (FY20)																												
MP PVT (FY20)																												
MP PVT (FY21)																												
MP PVT (FY21)																												
MP PVT (FY22)																												
MP PVT (FY22)																												
MP PVT (FY23)																												
MP PVT (FY23)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>	Project (Number/Name) FA1 / <i>Manpack Radio</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Manpack (MP) Customer Test (CT)	2	2017	4	2017
MP Sandbox and Soldier Feedback Study	1	2018	2	2018
MP Field/Lab Base Risk Reduction Test (FBRR/LBRR)	3	2018	4	2018
MP Operational Test (OT)	4	2018	2	2019
MP LRIP	4	2018	4	2018
MP Log Demo	1	2019	1	2019
MP Full Rate Production (FRP)	3	2019	3	2019
MP Performance Verification Test (PVT) (FY19)	2	2019	2	2019
MP PVT (FY20)	3	2020	3	2020
MP PVT (FY21)	3	2021	3	2021
MP PVT (FY22)	3	2022	3	2022
MP PVT (FY23)	3	2023	3	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)				Project (Number/Name) FA2 / Rifleman Radio (RR)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
FA2: Rifleman Radio (RR)	-	3.851	10.037	1.870	-	1.870	5.032	10.875	11.033	12.290	0.000	54.988
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
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, SRW data and voice communications, and other advanced networking waveform communications, in one radio with both handheld and mounted configurations.												
On 13 September 2016 the Army Acquisition Executive (AAE) approved a decreased Basis of Issue (BOI) for the single channel Rifleman Radio (RR), an increase to the BOI for the two channel Leader Radio (LR) and moving forward with acquisition activities for the two channel LR. Single channel RR procurement is being deferred.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2017	FY 2018	FY 2019
Title: Program Management										0.373	0.485	0.425
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 2018 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Core, Matrix, and Contractor support.												
FY 2019 Plans: During this timeframe, will provide overall management and oversight to implement HMS acquisition strategy. Includes Matrix and Contractor support.												
FY 2018 to FY 2019 Increase/Decrease Statement: The decrease in requirement is a result of the removal of Core support as this requirement will be covered with OMA funds starting in FY19.												
Title: HMS Engineering/Technical Support										0.154	0.300	0.300

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: February 2018		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>		Project (Number/Name) FA2 / <i>Rifleman Radio (RR)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019
Description: Overall technical analysis support to PdM HMS' Handheld products.					
FY 2018 Plans: Provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Technical test support for the planning and execution of laboratory and field test events, including support for testing of prototypes, Engineering Design Models (EDMs), commercial radio solutions, Developmental and Operational Test events, and data collection/reduction/analysis of tactical radio performance.					
FY 2019 Plans: Provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Technical test support for the planning and execution of laboratory and field test events, including support for testing of prototypes, Engineering Design Models (EDMs), commercial radio solutions, Developmental and Operational Test events, and data collection/reduction/analysis of tactical radio performance.					
Title: Test and Evaluation			3.324	9.252	1.145
Description: Handheld's 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 Field / Lab Based Risk Reduction (FBRR/LBRR) that will serve as risk reduction events prior to Operational Test (OT) to ensure the radio is operational at full capability and ready to be used by soldiers. The QT will validate the manufacturers' ability to meet the minimum functional requirements identified in the Performance Requirements Document. Radios that successfully demonstrate key capabilities during QT will proceed to FBRR/LBRR. The OT 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 OT will be designed to validate that the HMS products meet warfighter needs in terms of effectiveness, suitability and survivability in an operationally realistic environment. Results from the OT will facilitate the delivery orders for Full Rate Production.					
FY 2018 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army							Date: February 2018				
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>			Project (Number/Name) FA2 / <i>Rifleman Radio (RR)</i>				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2017	FY 2018	FY 2019		
<p>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 addendum approved in March 2017.</p> <p>FY 2019 Plans: The FY 2019 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 addendum approved in March 2017.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: The decrease in requirement is a result of the radio reaching the end of operational testing while approaching full rate production.</p>											
Accomplishments/Planned Programs Subtotals							3.851	10.037	1.870		
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• FA1: <i>Manpack Radio</i>	10.347	10.039	1.959	-	1.959	5.030	10.875	11.033	12.290	0.000	61.573
• B95006: <i>Handheld Radio</i>	43.734	37.773	79.802	-	79.802	102.959	92.940	95.091	92.653	0.000	544.952
• B95007: <i>Manpack Radio</i>	224.388	317.578	271.763	-	271.763	413.805	402.038	453.968	505.349	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
<p>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. An acquisition strategy addendum adding LR was approved in March 2017. The addendum continues 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 Program Office released the solicitation for the two channel LR to support Qualification Testing Sept 2017. The Program Office will change the strategy to request objective capabilities, rather than the previous approach of low cost technically acceptable, and seek a best value effort to increase operational flexibility. Rifleman Radio Increment 2 (LR) Capability Production Document (CPD) was JROC approved on April 2017.</p> <p>The LR will simultaneously run the Soldier Radio Waveform (SRW), or other advanced networking waveforms, and Single Channel Ground and Airborne Radio System (SINCGARS).</p> <p>The Army will award Firm Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) Contracts and will procure radios through a multiple step selection process:</p>											

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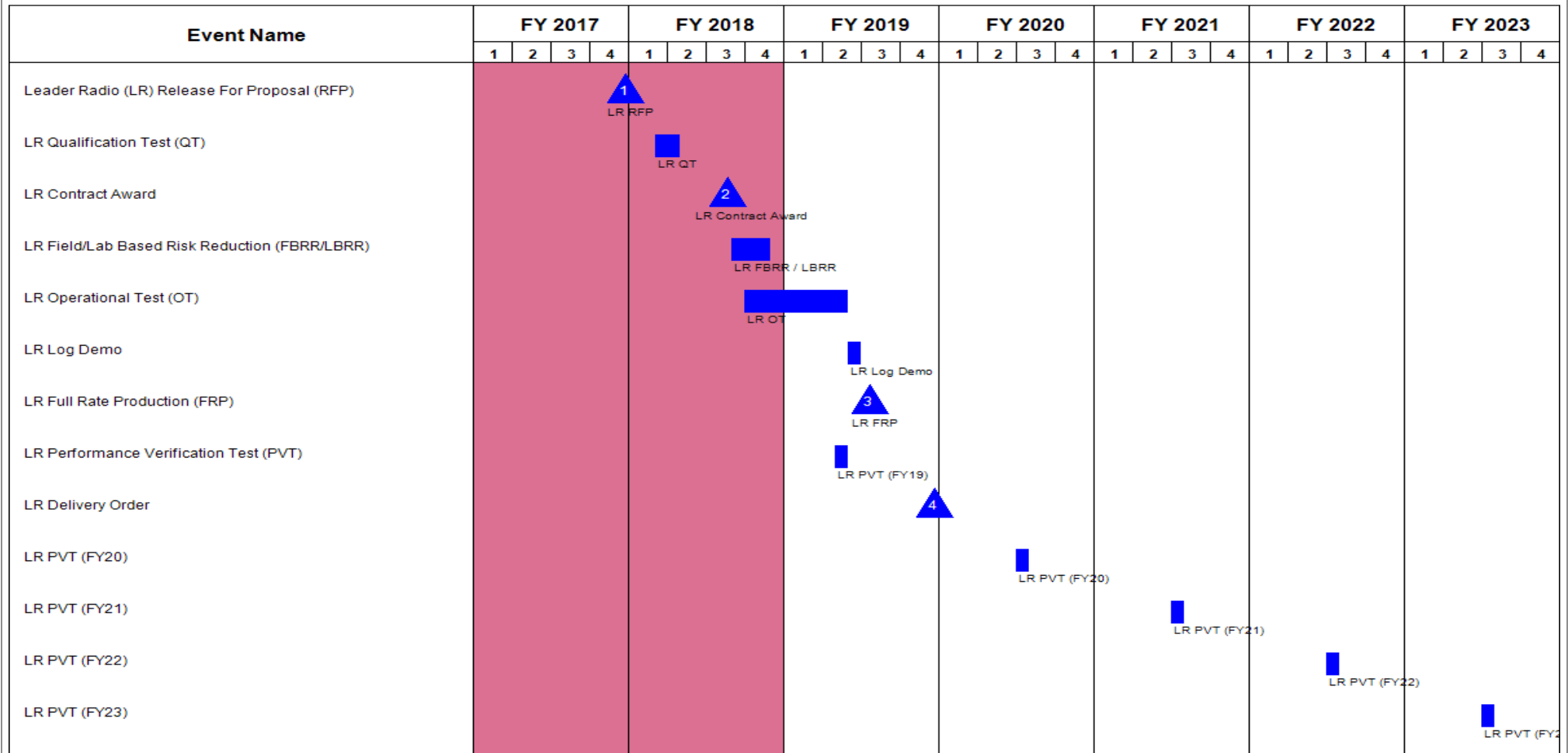
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>	Project (Number/Name) FA2 / <i>Rifleman Radio (RR)</i>
a. Award FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (3QFY18) b. Award initial delivery orders for FBRR/OT assets (3QFY18) c. Award FRP delivery orders based on Operational Test and best value trade off construct (3QFY19)		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Systems (Low-Tier)				Project (Number/Name) FA2 / Rifleman Radio (RR)					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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, PM TR Alliant : Various; APG, MD	-	0.373	Dec 2016	0.485		0.425	Dec 2018	-		0.425	0.000	1.283	-
Subtotal			-	0.373		0.485		0.425		-		0.425	0.000	1.283	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC : Various	-	0.154	Jan 2017	0.300		0.300	Jan 2019	-		0.300	0.000	0.754	-
Subtotal			-	0.154		0.300		0.300		-		0.300	0.000	0.754	N/A
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 : Fort Huachuca	-	2.676	Dec 2016	2.100		-		-		-	0.000	4.776	-
Follow on Delta Development & Testing (2)	RO	OTC : TBD	-	0.648	Mar 2018	7.152		1.145	Nov 2018	-		1.145	0.000	8.945	-
Subtotal			-	3.324		9.252		1.145		-		1.145	0.000	13.721	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.851		10.037		1.870		-		1.870	0.000	15.758	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army			Date: February 2018		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>		Project (Number/Name) FA2 / <i>Rifleman Radio (RR)</i>	



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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / <i>Tactical Network Radio Systems (Low-Tier)</i>	Project (Number/Name) FA2 / <i>Rifleman Radio (RR)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Leader Radio (LR) Release For Proposal (RFP)	4	2017	4	2017
LR Qualification Test (QT)	1	2018	2	2018
LR Contract Award	3	2018	3	2018
LR Field/Lab Based Risk Reduction (FBRR/LBRR)	3	2018	4	2018
LR Operational Test (OT)	4	2018	2	2019
LR Log Demo	2	2019	2	2019
LR Full Rate Production (FRP)	3	2019	3	2019
LR Performance Verification Test (PVT)	2	2019	2	2019
LR Delivery Order	4	2019	4	2019
LR PVT (FY20)	3	2020	3	2020
LR PVT (FY21)	3	2021	3	2021
LR PVT (FY22)	3	2022	3	2022
LR PVT (FY23)	3	2023	3	2023