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**Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	5.942	18.776	12.393	-	12.393	9.460	7.774	7.931	6.944	Continuing	Continuing
DX7: <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>	-	0.887	0.934	0.751	-	0.751	0.780	0.810	0.822	0.828	Continuing	Continuing
S65: <i>Soldier Power</i>	-	0.000	5.411	11.642	-	11.642	8.680	6.964	7.109	6.116	Continuing	Continuing
S75: <i>Ground Soldier Ensemble</i>	-	5.055	12.431	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program element contains four projects: Project S56 for Mounted Soldier System (MSS), Project S65 for Soldier Power, Project S75 for Nett Warrior (NW), [named in honor of Medal of Honor recipient COL Robert Nett], previously known as Ground Soldier System (GSS), and Project DX7 Tactical Communications and Protective System (TCAPS). MSS provides an integrated suite of enhancements to the combat vehicle crew member and commander to address identifiable capability gaps in their ability to fight, communicate, and maneuver across the full spectrum of operations. MSS consists of lightweight, modular, and mission tailorable equipment and Command, Control, Communications and Computer (C4) devices worn, carried, or used by mounted crew members in performance of their missions. Congressionally added funding in FY10 for Soldier Power efforts has been applied to the Soldier Power project line. NW provides unparalleled situational awareness and understanding to the dismounted leader allowing for faster and more accurate decisions in the tactical fight. This translates into Soldiers being at the right place, at the right time, with the right equipment making them more effective, more lethal, and more survivable in the execution of their combat mission. TCAPS enables Soldiers to communicate over radios in combat environments while simultaneously providing hearing protection from both steady state and impulse noise.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	6.155	18.776	23.839	-	23.839
Current President's Budget	5.942	18.776	12.393	-	12.393
Total Adjustments	-0.213	0.000	-11.446	-	-11.446
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-0.213	-	-11.446	-	-11.446

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
DX7: <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>	-	0.887	0.934	0.751	-	0.751	0.780	0.810	0.822	0.828	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Tactical Communications and Protective System (TCAPS) provides Soldiers with advanced, active hearing protection that simultaneously protects Soldiers' hearing while enabling situational awareness and mission command. TCAPS protects Soldiers against harmful impulse and steady-state noises characteristic of combat environments while also enabling Soldiers to communicate with each other using voice communications over a tactical radio. TCAPS enhances survivability and situational awareness by allowing Soldiers to selectively amplify faint sounds that would not be otherwise audible or intelligible. TCAPS reduces Soldiers' noise induced hearing damage. Includes integration and interface of products on Soldiers.

TCAPS contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injuries. TCAPS will continue to employ commercial-off-the-shelf (COTS) solutions that are evaluated periodically. The commercial solutions that meet the technical requirements and are rated the best by the Soldiers will transition to production and fielding.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> TCAPS testing and evaluation.	0.631	0.639	0.625
<b>Description:</b> Test articles procurement and testing & evaluation.			
<b>FY 2015 Accomplishments:</b> Conducted testing of TCAPS COTS solutions for Soldiers without a radio to ensure all combat Soldiers have active hearing protection. Conducted Gen 2 headset evaluation.			
<b>FY 2016 Plans:</b> Continue testing of TCAPS COTS solutions for Soldiers without a radio to ensure all combat Soldiers have active hearing protection. Conduct Post Implementation Review (PIR) for TCAPS and TCAPS lite systems. Conduct test for VIC3 TCAPS cable to be compatible with vehicle intercom systems.			
<b>FY 2017 Plans:</b> Funding supports test articles and evaluation for a limited relook of commercial technology to determine if there are improved capabilities to existing fielded systems or similar capabilities at lower costs.			
<b>Title:</b> System Engineering and Program Management (SEPM)	0.256	0.295	0.126

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b>Description:</b> TCAPS system engineering and program management support.</p> <p><b>FY 2015 Accomplishments:</b> Conducted systems engineering and program management for TCAPS such as developing Programs of Instruction and training materials for the TCAPS Non-Radio solution and preplanned product improvement documentation.</p> <p><b>FY 2016 Plans:</b> Continue with systems engineering and program management to develop critical documentation for the TCAPS Non-Radio solution and product improvements.</p> <p><b>FY 2017 Plans:</b> Funds system engineering and program management for TCAPS; the development of electronic training materials for improved leader training; and ensuring integration and interoperability with other Soldier equipment.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	0.887	0.934	0.751

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• B55510: <i>Tactical Communications and Protective System</i>	22.654	25.597	3.623	-	3.623	8.171	8.825	6.204	6.500	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**  
TCAPS is an ACAT III program that leverages commercial-off-the-shelf (COTS) technology. TCAPS conducts periodic relook of commercial technology to seek improved capabilities, reduce costs, conduct test and evaluation that allows transition to production.

**E. Performance Metrics**

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 5				PE 0604827A / Soldier Systems - Warrior Dem/Val				DX7 / TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM								
<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
SEPM	MIPR	Fort Belvoir : Ft Belvoir, VA	0.018	0.291		0.295		0.126		-		0.126	Continuing	Continuing	Continuing	
<b>Subtotal</b>			0.018	0.291		0.295		0.126		-		0.126	-	-	-	
<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Test Articles (Engineering Assessment)	MIPR	DLA DSCP : Philadelphia, PA	0.026	0.028		0.028		-		-		-	0	0.082	0	
Test Articles (Development Test)	MIPR	DLA DSCP : Philadelphia, PA	0.020	0.019		0.019		0.092		-		0.092	Continuing	Continuing	Continuing	
Test Articles (OT)	MIPR	DLA DSCP : Philadelphia, PA	0.120	0.141		0.144		-		-		-	0	0.405	0	
<b>Subtotal</b>			0.166	0.188		0.191		0.092		-		0.092	-	-	-	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Annual Relook of Technology/Evaluation	MIPR	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.177	0.190		0.192		0.193		-		0.193	Continuing	Continuing	Continuing	
Developmental and Operational Test	Various	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.411	0.218		0.256		0.340		-		0.340	Continuing	Continuing	Continuing	
Customer Test	Various	Army Hearing Program Office : Various Locations	0.028	-		-		-		-		-	0	0.028	0	
<b>Subtotal</b>			0.616	0.408		0.448		0.533		-		0.533	-	-	-	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2017 Army</b>								<b>Date:</b> February 2016					
<b>Appropriation/Budget Activity</b> 2040 / 5				<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>					
	<b>Prior Years</b>	<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	0.800	0.887		0.934		0.751		-		0.751	-	-	-

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Annual Relook of Technology for Evaluation/Integration Test for FY16 Fielding	██████████				██████████																							
Technical Gen 2 headset test																												
Operation Gen 2 headset test																												
Developmental and Operational Assessment for FY16 Fielding	██████████																											
TCAPS/TCAPS Lite Post Implementation Review																												
MIC3 cable test																												
Annual Relook of Technology for Evaluation/Integration Test for FY17 Fielding									██████████																			
Developmental and Operational Assessment for FY17 Fielding													██████████															
Annual Relook of Technology for Evaluation/Integration for FY18 Fielding																	██████████											
Developmental and Operational Assessment for FY18																					██████████							
Annual Relook of Technology for Evaluation/Integration Test for FY19 Fielding																					██████████							
Developmental and Operational Assessment for FY19 Fielding																					██████████							
Annual Relook of Technology for Evaluation/Integration Test for FY20 Fielding																									██████████			

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Developmental and Operational Assessment for FY20 Fielding																												
Annual Relook of Technology for Evaluation/Integration Test for FY21																												
Developmental and Operational Assessment for FY21 Fielding																												
Annual Relook of Technology for Evaluation/Integration Test for FY22																												
Developmental and Operational Assessment for FY22 Fielding																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Annual Relook of Technology for Evaluation/Integration Test for FY16 Fielding	1	2015	3	2015
Technical Gen 2 headset test	3	2015	4	2015
Operation Gen 2 headset test	4	2015	4	2015
Developmental and Operational Assessment for FY16 Fielding	2	2015	4	2015
TCAPS/TCAPS Lite Post Implementation Review	4	2016	4	2016
VIC3 cable test	4	2016	4	2016
Annual Relook of Technology for Evaluation/Integration Test for FY17 Fielding	1	2016	3	2016
Developmental and Operational Assessment for FY17 Fielding	2	2016	4	2016
Annual Relook of Technology for Evaluation/Integration for FY18 Fielding	1	2017	3	2017
Developmental and Operational Assessment for FY18	2	2017	4	2017
Annual Relook of Technology for Evaluation/Integration Test for FY19 Fielding	1	2018	3	2018
Developmental and Operational Assessment for FY19 Fielding	2	2018	4	2018
Annual Relook of Technology for Evaluation/Integration Test for FY20 Fielding	1	2019	3	2019
Developmental and Operational Assessment for FY20 Fielding	2	2019	4	2019
Annual Relook of Technology for Evaluation/Integration Test for FY21	1	2020	3	2020
Developmental and Operational Assessment for FY21 Fielding	2	2020	4	2020
Annual Relook of Technology for Evaluation/Integration Test for FY22	1	2021	3	2021
Developmental and Operational Assessment for FY22 Fielding	2	2021	4	2021

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				<b>Project (Number/Name)</b> S65 / <i>Soldier Power</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S65: <i>Soldier Power</i>	-	0.000	5.411	11.642	-	11.642	8.680	6.964	7.109	6.116	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Not applicable for this item.

**A. Mission Description and Budget Item Justification**

Soldier and Small Unit Power (SUP) fills the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, such as situational awareness displays, GPS systems, weapon sensors, radios, and other devices. This RDT&E line develops power sources and solutions suited for not only the individual Soldier, but for the team, squad, and platoon. These power solutions are intended for use in the most austere operating environments and include, but are not limited to, individual Soldier worn systems, integrated power vests, renewable energy, and kinetic energy harvesting. Specific systems are the Integrated Soldier Power/ Data systems (ISPDS), the Conformal Wearable Battery (CWB), the Squad Power Manager (SPM), the Universal Battery Charger (UBC), and Soldier Power Generation (SPG) Technologies. Small Unit Power systems will enable dismounted Soldiers to execute their missions with significantly less battery weight and fewer cables, permitting longer missions and fewer battery resupplies. An integrated Soldier power system will provide the Soldier with a wearable power supply that will be significantly more efficient and lighter than carrying separate batteries for each device. Soldier power systems will reduce the cost, weight, and logistical burden associated with moving fuel and primary (disposable) batteries, and allow dismounted Soldiers to operate independently for longer missions without being tethered to a large generator, vehicle, or supply train. This effort is consistent with the Sep 2013 Small Unit Power CDD, the Dec 2011 Operational Energy ICD, and the Mar 2011 Soldier Protection CDD, and the Universal Battery Charger CPD (May 2015).

Platoon Power Generator - PM E2S2: This project supports the demonstration and development of a Platoon Power Generator (PPG). The SUP PPG (1kW Generator) will provide small units with sufficient portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions using a common logistical fuel (JP-8). It will be used for charging batteries and powering various types of Army communications and electronics devices. It will provide sufficient power to recharge and power all Platoon equipment and fulfill residual power gaps at the Squad and Soldier level. The generator will provide Platoon power for charging batteries when away from vehicles in Stryker Brigade Combat Teams (SBCT), Armor Brigade Combat Team (ABCT) and as a power source for Infantry Brigade Combat Teams (IBCT) in austere environments. FY16 funds allow for the award and management of R&D contracts to two manufacturers to develop and demonstrate a 1kW PPG. In FY17, these two manufacturers will be down-selected to one for design refinement, test and evaluation, and preparation for production.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Soldier Power Generation (SPG)	-	1.482	7.984
<b>Description:</b> Soldier portable, renewable energy solutions for Soldier Power Generation.			
<b>FY 2016 Plans:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>Will continue development and optimization of lightweight, Soldier Power Generation chargers/ harvesters, and generators capable of supporting the variety of power devices used in tactical formations. Will support integration of the Universal Battery Charger on the Armored Multi-purpose Vehicle (AMPV) platform.</p> <p><b>FY 2017 Plans:</b> Will support EMD activities leading to Milestone C/ Full Rate Production in 1QFY19 for Soldier Power generation. Will continue development and optimization of lightweight, Soldier-portable chargers/harvesters and generators capable of supporting the variety of power devices used in tactical formations. Will support integration of the Universal Battery Charger on HMMWV platforms.</p>				
<p><b>Title:</b> Soldier Power Test and Evaluation</p> <p><b>Description:</b> Integration testing and annual testing and evaluation events</p> <p><b>FY 2016 Plans:</b> Will conduct development testing (DT) and evaluation of Soldier Power generation at the Electronic Proving Ground, Arizona, and Aberdeen Proving Ground, Maryland. Will conduct user assessments, verification and operational test (OT) events and evaluations at Fort Devens Massachusetts and Fort Bliss, Texas. Will complete test requirements necessary to satisfy Milestone C/ Full Rate production requirements for the Integrated Soldier Power/Data system (ISPDS), the Squad Power Manager (SPM), the Conformal Wearable Battery (CWB), and the Universal Battery Charger (UBC). Will test and validate new battery chemistries and interfaces with the existing power charging solutions within Small Unit Power. Will integrate and test new radios, GPS devices, and other power consuming systems for compatibility with the Soldier Power equipment. Will test the Universal Battery Chargers (UBC) on the Armored Multi-purpose Vehicle (AMPV) platform.</p> <p><b>FY 2017 Plans:</b> Will conduct developmental testing to support Milestone C/Full Rate production requirements for Soldier Power Generation and user evaluations at the Joint Infantry Company Prototype (JIC-P) event hosted by the Navy in 2QFY17. Will test and validate new battery chemistries and interfaces with the existing power charging solutions within Small Unit Power. Will test the integration of the Universal Battery charger on HMMWV platforms.</p>		-	0.609	1.404
<p><b>Title:</b> Platoon Power Generator (PPG) - PM E2S2</p> <p><b>Description:</b> Prepare for award and manage an EMD phase R&amp;D contract for the PPG.</p> <p><b>FY 2016 Plans:</b> Award EMD contract and fund applicable functional support agreements.</p> <p><b>FY 2017 Plans:</b></p>		-	3.320	2.254

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2015	FY 2016	FY 2017
Continue EMD contract: fund applicable functional support agreements and MIPRs; prepare documentation and vendor for Milestone C and production, respectively.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	5.411	11.642

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• R80010000: <i>Small Unit Power Increment</i>	-	38.639	30.380	-	30.380	42.650	40.907	47.730	48.622	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**  
Soldier and Small Unit Power

Pursue a variety of Soldier power initiatives under full and open competition. These initiatives range from Commercial-Off-The-Shelf (COTS) solutions to developmental efforts. The type of solicitation depends on the maturity of the technology. The power initiatives will be evaluated through scheduled test and evaluation events, and if successful, selected for procurement and subsequent fielding and sustainment. The acquisition strategy varies by product. For example, the SPM acquisition strategy will consist of two phases: Phase one includes the purchase of test articles using the Defense Logistics Agency (DLA) Special Operational (Spec Ops) Equipment Tailored Logistic Support Program (TLSP). Phase two includes the procurement of additional test articles through Indefinite Delivery Indefinite Quantity (IDIQ) contracts established through the Army Contracting Command (ACC). The Project Manager office will establish IDIQ contracts to support the SUP requirements over time. Each SUP system will be procured under purchase orders for production quantities that will be awarded on a Firm Fixed Price (FFP) contract.

PEO CS/CSS Effort on the Platoon Power Generation - PM E2S2:

Full and open competitive acquisition will be conducted culminating in an award of up to two (2) Cost Plus Incentive Fee (CPIF) contracts supporting a 24 month Engineering and Manufacturing Development (EMD) phase. Two selected contractors will be awarded EMD contracts and will separately perform a 15 month effort (Phase I) to fabricate and produce the minimum order of 10 SUP PPG (1kW Generator) systems (5 per vendor). Phase I will be followed by a down-select evaluation to choose the manufacturer that could produce the best value system. During Phase II, selected vendor will produce 5 additional systems to undergo developmental test (DT), a logistics demonstration (LD), pre-production qualification test, and limited user / operational test (LUT/OT). Upon successful completion of these tests and completion of logistics supportability, the performance data and Soldier's feedback will be utilized in preparation for Milestone C (MS C).

**E. Performance Metrics**  
N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604827A / Soldier Systems - Warrior Dem/Val				S65 / Soldier Power							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
PM integration and oversight	MIPR	Various : Various	3.105	-		0.237		1.936		-		1.936	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.105	-		0.237		1.936		-		1.936	-	-	-
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Soldier Power Development and Integration	TBD	TBD : TBD	11.878	-		1.002		5.552		-		5.552	Continuing	Continuing	Continuing
Platoon Power Generation	C/CPIF	TBD : TBD	0.000	-		2.500		1.500		-		1.500	1.500	5.500	0
<b>Subtotal</b>			11.878	-		3.502		7.052		-		7.052	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Martix Support	MIPR	ARL, CERDEC, Various : Various	2.340	-		0.243		0.496		-		0.496	Continuing	Continuing	Continuing
Platoon Power Generation	IA	TBD : TBD	0.000	-		0.820		0.534		-		0.534	0.600	1.954	0
<b>Subtotal</b>			2.340	-		1.063		1.030		-		1.030	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Various Testing Organizations	MIPR	Various : Various	0.720	-		0.609		1.404		-		1.404	Continuing	Continuing	Continuing
Platoon Power Generation	MIPR	TBD : TBD	0.000	-		-		0.220		-		0.220	0.220	0.440	0





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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S65 / <i>Soldier Power</i>
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(1) Milestone B (PPG)									▲ Milestone B Platoon Power Generation (PPG)																			
(2) EMD Contract Award (PPG)									▲ Contract Award (PPG)																			
EMD Contract (PPG)	EMD Contract (PPG)																											
(3) Critical Design Review (CDR) (PPG)									CDR (PPG) ▲																			
Developmental Testing (PPG)									DT (PPG)																			
Pre Production Qualification Testing (PPQT) (PPG)									PPQT (PPG)																			
(4) Limited User Test (LUT) (PPG)													▲ LUT (PPG)															
(5) Milestone C (PPG)																	▲ Milestone C (PPG)											

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2017 Army **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S65 / <i>Soldier Power</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Developmental Testing (ISPDS-C, CWB, SPM)	3	2015	4	2015
Operational Testing (ISPDS-C, CWB, SPM)	4	2015	1	2016
CWB Contract Award	2	2016	2	2016
Milestone C (ISPDS-C, CWB, SPM)	4	2016	4	2016
Prototyping (ISPDS-C, CWB, SPM Incr 2)	1	2019	4	2021
Limited User Test (ISPDS-C, CWB, SPM Incr 2)	3	2020	3	2020
Prototype Testing (Soldier Power Generation)	1	2016	3	2017
Developmental Testing (Soldier Power Generation)	4	2017	1	2018
Operational Testing (Soldier Power Generation)	2	2018	2	2018
Milestone C (Soldier Power Generation)	3	2018	3	2018
Renewable Power Sources Technology Improvement	1	2017	4	2021
Wireless Charging	4	2017	4	2021
Conformal Soldier-Worn Central Power Source Development	1	2019	4	2021
Milestone B (PPG)	4	2016	4	2016
EMD Contract Award (PPG)	4	2016	4	2016
EMD Contract (PPG)	4	2016	4	2018
Critical Design Review (CDR) (PPG)	4	2017	4	2017
Developmental Testing (PPG)	4	2017	2	2018
Pre Production Qualification Testing (PPQT) (PPG)	3	2018	1	2019
Limited User Test (LUT) (PPG)	1	2019	1	2019
Milestone C (PPG)	2	2019	2	2019

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>S75: Ground Soldier Ensemble</i>	-	5.055	12.431	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Nett Warrior (NW) Program (named in honor of Medal of Honor recipient Colonel Robert C. Nett), also known as the Ground Soldier System (GSS) Program, leverages commercial smart devices and secure Army tactical radios to provide the dismounted leader an integrated mission command and situational awareness system for use during combat operations. The NW system provides leaders electronic real-time information on friendly positions; information about enemy activity and movement; navigational data and map imagery; a collaborative planning tool; and other mission related graphics which effectively puts the power of the entire Army tactical network in the hands of the dismounted leader. The NW system also provides the same integrated mission command capability to the tactical vehicle-mounted leaders so that when dismounted, the leader still maintains the common operating picture (COP) and has continuous situational awareness. This capability provides unparalleled situational awareness and enhanced communications to the dismounted leader allowing for faster, more accurate decisions and reduced fratricide in the tactical fight. Includes integration and interface of products on Soldiers.

The continued development and integration of the NW program also integrates applications from other programs aimed at considerably reducing the weight and bulk of the dismounted Soldier's load by using a single End User Device. The NW program harnesses Soldiers' experience in combat operations and employs combat veterans for Soldier feedback enhancing human factors design and fightability of the system. This project funds the following: 1) Incorporation of additional new hardware applications and capabilities into Nett Warrior, 2) Yearly developmental and operational tests of the NW with continually advancing commercial smart device technology inserted, 3) Software development for planned updates, 4) Integration of new End User Devices with the existing and re-competed Army Tactical Radios, including vehicle power integration, 5) Government led integration and system engineering and program management, and 6) Conduct NW Operational Test and Evaluation with Mechanized and Infantry units in FY16/17.

NOTE: Beginning in FY17, funding for Nett Warrior was realigned to 0604818A (Army Tactical Command & Control Hardware & Software)/Project EQ8 (Mobile/ Handheld Computing Environment). Under this realignment Nett Warrior will continue to integrate, conduct developmental and operational test, etc. as stated above.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Test and Evaluation including twice a year Network Integration Evaluation (NIE) to gain Soldier feedback	1.292	2.596	-
<b>Description:</b> Funding is provided for the following efforts.			
<b>FY 2015 Accomplishments:</b> Conducted NW test and evaluation for technical verification at developmental events and user verification including Initial Operational Test & Evaluation (IOT&E) in support of an additional Low Rate Initial Production (LRIP) Decision. Continued support for NW as a baseline NIE system including: Brigade level support, equipping, training, test costs, and spares for NW; yearly			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>Army Interoperability Certification testing; environmental testing; information assurance penetration prevention testing for new commercial smart devices, NW software and accessories.</p> <p><b>FY 2016 Plans:</b> Will continue NW test and evaluation, along with 3rd party applications, for technical verification at developmental events and user verification to include new dismounted Soldier hardware and new Full and Open Competition (FOC) Rifleman Radios from PEO C3T. Support NW as a baseline NIE and Army Warfighting Assessment (AWA) system including: Brigade level support, equipping, training, test costs, and spares for NW; yearly Army Interoperability Certification; environmental testing; electronic warfare testing; and Information Assurance penetration prevention testing for new commercial smart devices, NW software and accessories. Also test emerging secure 4G/LTE Army tactical networks.</p>				
<p><b>Title:</b> Hardware and Software Integration and Evaluation for Capability Improvements</p> <p><b>Description:</b> Funding is provided for the following efforts.</p> <p><b>FY 2015 Accomplishments:</b> Acquired, integrated and evaluated low cost, commercial smart devices, cables, and other hardware for potential addition into the NW system of proven and mature capabilities. Integrated 3rd party software combat applications to keep pace with emerging technology and inform the acquisition decision process as to yearly Army Capability Set insertion.</p> <p><b>FY 2016 Plans:</b> Integrate and evaluate emerging advanced commercial smart devices, cables, and other hardware including unmanned sensor systems for potential adoption into the NW system. Integrate new PEO C3T FOC rifleman radios with NW from the 2015 Rifleman Radio procurement contract award. Will continue to integrate 3rd party software combat applications for increased functionality to keep pace with emerging technology, lower cost and weight, and inform the future acquisition decision process as to yearly Army Capability Set insertion. Continue to integrate tactical 4G/LTE capability with NW, to include accreditation via the NSA's Commercial Solutions for Classified (CSFC) process.</p>		1.244	5.004	-
<p><b>Title:</b> Software Development and Integration</p> <p><b>Description:</b> Funding is provided for the following efforts.</p> <p><b>FY 2015 Accomplishments:</b> Developed the initial release of the Nett Warrior Software Development Kit (SDK) products for use on commercial NW smart device hardware to reduce application integration time for third party app developers. Integrated applications to expand Nett Warrior capabilities to meet other Army requirements using a common smart device. Maintained software updates and changes</p>		2.082	2.491	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
for NW program to keep pace with Army software capability updates, maintain information assurance accreditation, and retain interoperability certification for Army Capability Sets.  <b>FY 2016 Plans:</b> Will continue to integrate NW capabilities, radio drivers, other Army required applications via the Nett Warrior software development kit. Expanding capabilities to meet Army, Special Forces and Army Mobile / Handheld Computer Environment (M/HHCE) requirements, retain interoperability certification for Army Capability Sets, information assurance accreditation, and complete required AIC testing for latest NW software baseline.				
<b>Title:</b> Integration with AN/PRC-154A and Vehicle Platforms <b>Description:</b> Funding is provided for the following efforts.  <b>FY 2016 Plans:</b> Integrate new commercial smart devices with competitively procured FOC Rifleman Radio AN/PRC-154A Radio from PEO C3T in preparation for planned FOT&E in FY17. Will conduct integration and testing of Army secure tactical 4G/LTE with NW.		-	1.412	-
<b>Title:</b> Conduct Systems Engineering and Program Management Support to Nett Warrior <b>Description:</b> Funding is provided for the following efforts.  <b>FY 2015 Accomplishments:</b> Continued to conduct government systems engineering and program management support for NW program including documentation preparation for an additional Low Rate Initial Production (LRIP) decision in May 2015. Collected input from Soldiers at semi-annual NIE events to improve NW size, weight, power, fightability, safety and effectiveness via surveys and electronic data monitoring from Developmental and Operational Testing (DT/OT) events.  <b>FY 2016 Plans:</b> Will continue to conduct government systems / software engineering and program management support for NW program. Will collect input from Soldiers to improve NW size, weight, power, fightability, safety and effectiveness via surveys. Will manage system configuration, and execute test, development and integration planning including investigation and analysis of emerging innovative commercial technologies to lower the size, weight, power, cost and increase Nett Warrior functionality.		0.437	0.928	-
<b>Accomplishments/Planned Programs Subtotals</b>		5.055	12.431	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>

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

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• OPA 3, R80501: <i>OPA 3, R80501, Ground Soldier System</i>	71.761	49.798	32.814	-	32.814	36.553	36.886	37.833	37.926	Continuing	Continuing
• RDT&E, PE 0604818A EQ8: <i>RDT&amp;E, PE 0604818A EQ8 Army Tactical Command &amp; Control Hardware &amp; Software</i>	-	-	10.563	-	10.563	10.822	10.898	11.068	11.352	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The Nett Warrior (NW) program provides unparalleled situational awareness and mission command to dismounted combat leaders through a secure commercial smart device, power source, cables and tactical radio. The NW is focused on Team Leader and higher echelons and provides an integrated secure information-centric Commercial-Off-The Shelf (COTS) mobile application-based computation platform with data collection, enhanced SA, mission planning, and navigational aid functions overlaid on geo-referenced maps and high resolution imagery throughout a brigade. The NW enables real-time ground tactical-level knowledge sharing and command and control (C2), directly impacting combat effectiveness and decision-making. The NW also improves lower echelon intelligence production and analysis capabilities which are central to efficient and effective counter-insurgency warfare. NW program completed LRIP/MS C in 2012 followed by two LRIP decisions in 2013-14 in preparation for IOT&E under DOT&E oversight in 4QFY14-1QFY15. This IOT&E event lead to an additional NW Low Rate Initial Production (LRIP) decision in 2015 and a Full Rate Production Decision is planned for mid FY17. From this decision NW will complete annual production and fielding events based on yearly development, integration and testing of emerging advanced smart devices to lower cost, weigh and power. To capitalize on commercial industry's investment in advanced smart device technology as well as innovation and changes within Army, NW requires annual RDT&E funding for integration and evaluation. Through this process and at low cost, the Army is able to integrate and evaluate for combat utility the hundreds of millions spent in product development by the major commercial device manufactures.

**E. Performance Metrics**

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016				
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val				Project (Number/Name) S75 / Ground Soldier Ensemble								
<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Hardware and software integration and evaluation	Various	Various : Various	21.801	1.244		5.004		-		-		-	Continuing	Continuing	Continuing	
Systems Engineering and program management support	Various	Various : Various	23.110	0.437		0.928		-		-		-	Continuing	Continuing	Continuing	
<b>Subtotal</b>			44.911	1.681		5.932		-		-		-	-	-	-	
<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Integration with Project Manager Tactical Radios and Vehicle Platforms	Various	Various : Various	2.061	-		1.412		-		-		-	Continuing	Continuing	Continuing	
<b>Subtotal</b>			2.061	-		1.412		-		-		-	-	-	-	
<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Software Development and Integration	Various	Various : Various	10.517	2.082		2.491		-		-		-	Continuing	Continuing	Continuing	
<b>Subtotal</b>			10.517	2.082		2.491		-		-		-	-	-	-	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Various Testing Organizations	Various	Various : Various	22.029	1.292		2.596		-		-		-	Continuing	Continuing	Continuing	
<b>Subtotal</b>			22.029	1.292		2.596		-		-		-	-	-	-	



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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Initial Test & Evaluation (IOT&E) (Infantry)	█				█																							
Operational Test & Evaluation (OT&E)	█				█				█																			
Army Tactical Radio Integration	█				█				█																			
Hardware and Software Integration	█				█				█																			
NIE/AWA baseline system	█				█				█																			

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	<b>Project (Number/Name)</b> S75 / <i>Ground Soldier Ensemble</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Initial Test & Evaluation (IOT&E) (Infantry)	1	2015	1	2015
Operational Test & Evaluation (OT&E)	4	2016	1	2017
Army Tactical Radio Integration	3	2016	4	2016
Hardware and Software Integration	1	2015	4	2016
NIE/AWA baseline system	1	2015	4	2016