Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

R-1 Program Element (Number/Name)

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

PE 0604827A I Soldier Systems - Warrior Dem/Val

Date: February 2015

Development & Demonstration (SDD)

Appropriation/Budget Activity

· ·												
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	25.477	6.155	18.776	-	18.776	23.839	20.850	19.204	19.505	Continuing	Continuing
DX7: TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM	-	-	0.922	0.934	-	0.934	0.952	0.971	0.989	0.993	Continuing	Continuing
S65: Soldier Power	-	7.164	-	5.411	-	5.411	11.990	8.870	7.142	7.277	Continuing	Continuing
S75: Ground Soldier Ensemble	-	18.313	5.233	12.431	-	12.431	10.897	11.009	11.073	11.235	Continuing	Continuing

Note

Army

Fiscal Year 2014: Program Decreases of \$5.718 million to Ground Soldier Ensemble and \$2.000 million to Soldier Power.

The FY 2016 funding request was reduced for \$4.692 million to account for the availability of prior year execution balances.

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 misison 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.

PE 0604827A: Soldier Systems - Warrior Dem/Val

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)

PE 0604827A I Soldier Systems - Warrior Dem/Val

Date: February 2015

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	18.467	6.157	11.976	-	11.976
Current President's Budget	25.477	6.155	18.776	-	18.776
Total Adjustments	7.010	-0.002	6.800	-	6.800
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	_	-			
 Congressional Rescissions 	_	-			
 Congressional Adds 	_	-			
 Congressional Directed Transfers 	_	-			
 Reprogrammings 	_	-			
SBIR/STTR Transfer	-	-			
Other Adjustments 1	7.010	-0.002	6.800	-	6.800

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	Army							Date: Febr	uary 2015		
Appropriation/Budget Activity 2040 / 5					PE 0604827A / Soldier Systems - Warrior DX7 / TAC					Number/Name) CTICAL COMMUNICATIONS AND TIVE SYSTEM			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
DX7: TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM	-	-	0.922	0.934	-	0.934	0.952	0.971	0.989	0.993	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 enabling Soldiers to communicate with each other using voice communications or over a tactical radio. TCAPS also enhances survivability and situational awareness by allowing Soldiers to selectively amplify faint sounds that would not be otherwise audible.

By reducing noise-induced hearing damage, TCAPS contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injury. TCAPS will employ commercial-off-the-shelf (COTS) solution(s) that are evaluated annually. The best commercial solutions evaluated will be transitioned into production and fielding. TCAPS will also continually evaluate lower cost active hearing protection solutions for soldiers without radios.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Testing Tactical Communications and Protective System (TCAPS)	-	0.631	0.639
Description: TCAPS procurement of test articles and testing and evaluation.			
FY 2015 Plans: Conduct testing of commercial TCAPS solutions for soldiers without a radio to allow all combat soldiers Active Hearing Protection and transition to procurement.			
FY 2016 Plans: TCAPS will buy test articles and conduct an annual relook of commercial technology to seek improved capabilities, conduct testing and evaluation, and transition to procurement.			
Title: System Engineering and Program Management (SEPM)	-	0.291	0.295
Description: Conduct System Engineering and Program Management support to TCAPS.			
FY 2015 Plans:			

PE 0604827A: Soldier Systems - Warrior Dem/Val

Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Ar	my		Date: F	ebruary 2015	5
Appropriation/Budget Activity 2040 / 5	DX7 / TA	(Number/ ACTICAL (CTIVE SY	COMMUNICA	TIONS AND	
B. Accomplishments/Planned Programs (\$ in Millions) Conduct government systems engineering and program in TCAPS Non-Radio solution and to develop preplanned pr	nanagement for TCAPS such as: developing training materials for t		FY 2014	FY 2015	FY 2016
	and program management for TCAPS such as; developing advan nd ensuring integration and interoperability with other Soldier equip				

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

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
B55510: Tactical Communications	31.868	22.654	25.597	-	25.597	22.579	23.653	25.640	20.402	-	172.393
and Protective System											

Accomplishments/Planned Programs Subtotals

0.922

0.934

Remarks

D. Acquisition Strategy

TCAPS is an ACAT III program leveraging commercial-off-the-shelf (COTS) technology. TCAPS will conduct an annual relook of commercial technology to seek improved capabilities, reduce cost, conduct test and evaluation, and transition to procurement.

E. Performance Metrics

N/A

PE 0604827A: Soldier Systems - Warrior Dem/Val Army

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Exhibit R-3, RDT&E F		<u>-</u>	U IO AIM	<u> </u>		D 4 D					.		February	2015	
Appropriation/Budge 2040 / 5	t Activity	/				R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val Project (Number/Name) DX7 / TACTICAL COMMUNIC								VICATIO	NS AND
Management Service	es (\$ in M	illions)		FY 2014		FY 2015		FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o Contrac
SEPM	MIPR	Fort Belvoir : Ft Belvoir, VA	0.018	-		0.291		0.295		-		0.295	-	0.604	-
		Subtotal	0.018	-		0.291		0.295		-		0.295	-	0.604	-
Support (\$ in Millions	Support (\$ in Millions)				2014	FY 2	015	FY 2 Ba			2016 CO	FY 2016 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 Contrac
Test Articles (Engineering Assessment)	MIPR	DLA DSCP : Philadelphia, PA	0.026	-		0.028		0.028		-		0.028	-	0.082	-
Test Articles (Development Test)	MIPR	DLA DSCP : Philadelphia, PA	0.020	-		0.019		0.019		-		0.019	-	0.058	-
Test Articles (OT)	MIPR	DLA DSCP : Philadelphia, PA	0.120	-		0.141		0.144		-		0.144	-	0.405	-
		Subtotal	0.166	-		0.188		0.191		-		0.191	-	0.545	-
Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	FY 2016 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 Contrac
Annual Relook of Technology/Evaluation	MIPR	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.177	-		0.190		0.192		-		0.192	-	0.559	-
Developmental and Operational Test	Various	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.411	-		0.253		0.256		-		0.256	-	0.920	-
Customer Test	Various	Army Hearing Program Office : Various Locations	0.028	-		-		-		-		-	-	0.028	-
		Subtotal	0.616	_		0.443		0.448		_		0.448	_	1.507	_

PE 0604827A: Soldier Systems - Warrior Dem/Val Army

Appropriation/Budget Activity			R-1 Program	Element (Number/N	Project (Nur	roject (Number/Name)				
2040 / 5	PE 0604827A Dem/Val						ACTICAL COMMUNICATIONS COTIVE SYSTEM			
	Prior Years FY 2014			FY 2016 F' FY 2015 Base				Cost To	Total Cost	Target Value of Contrac
Project Cost Totals	0.800	-	0.922	0.934	-	(0.934	-	2.656	-

Remarks

Name) Warrior 2 2 3 4 for Evaluational As	4 1 ation/m		ACTIC CTIVE 18 4	CAL (STE	1MUN M		FY	7 20:	
2 3 4 for Evalua ntional As	4 1 ation/m	2 3 tegration	4				1			20
or Evalua	ation/In	tegration	$\overline{}$	1	2	3 4	1	FY 2020		
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	and Op	erationa	l Asse	ssme	ent					
gration Te	est									
nal Asses	ssmen	t								
for Evalua	ation/In	ntegratio	n Test							
ental and	l Opera	ntional As	ssessn	nent						
1	nal Asse for Evalu	for Evaluation/li	nal Assessment for Evaluation/Integratio	nal Assessment for Evaluation/Integration Test		nal Assessment for Evaluation/Integration Test	nal Assessment for Evaluation/Integration Test	or Evaluation/Integration Test	nal Assessment for Evaluation/Integration Test	nal Assessment for Evaluation/Integration Test

PE 0604827A: Soldier Systems - Warrior Dem/Val Army

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
2040 / 5	PE 0604827A / Soldier Systems - Warrior	DX7 I TÀC	umber/Name) TICAL COMMUNICATIONS AND IVE SYSTEM

Schedule Details

	Sta	art	En	ıd
Events	Quarter	Year	Quarter	Year
Annual Relook of Technology for Evaluation/Integration Test for FY16 Fielding	1	2015	3	2015
Developmental and Operational Assessment for FY16 Fielding	2	2015	4	2015
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

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army											Date: February 2015			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val Project (Number/Name) S65 I Soldien					lumber/Name) lier Power			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost		
S65: Soldier Power	-	7.164	-	5.411	-	5.411	11.990	8.870	7.142	7.277	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

Army

Not applicable for this item.

A. Mission Description and Budget Item Justification

Soldier and Small Unit Power (SUP) Systems enable dismounted Soldiers and squads to execute their missions with significantly less battery weight and enable longer missions without a daily unit re-supply of batteries. These improved renewable systems enable the warfighter to sustain themselves for extended mission duration in the most austere operating environments. This effort began as a Congressional add for development and system improvement for early fuel cell and battery technology and now develops a line of power sources and solutions suited for the individual Soldier and the small unit. These power solutions include, but are not limited to, Soldier-worn power systems, integrated power vests, power management devices and small unit generators including the platoon power generator (PPG), chargers, scavengers or harvesters; all intended for use in the most austere operating environments. An advanced, Integrated Soldier Power/Data System (ISPDS) provides the Soldier with a body-worn power/data capability that is significantly more efficient and lighter than carrying separate batteries for each device. Soldier and Small Unit Power systems address the power and energy capability gap created by the increase in mission essential, Soldier-portable power consumers, such as Situational Awareness (SA) displays, Global Positioning System (GPS) navigation, weapon sensors, precision targeting systems and portable Soldier radios. Soldier-portable power systems reduce the weight and logistical burden associated with moving fuel and primary (disposable) batteries across the conventional battlefield. By using renewable energy and power scavenging technology, Soldiers and small units are able to operate independently for longer durations without being tethered to a large generator, vehicle, or supply train. This effort supports the following requirements: August 2013 Small Unit Power MDD, September 2013 Small Unit Power Capability Development Document (CDD), March 2011 Soldier Protection CDD, the December 2011 Operation End

Platoon Power Generator: 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 the following year, these two manufacturers will be down-selected to one for further refinement and test and evaluation.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Individual Soldier Power	1.940	-	-

PE 0604827A: Soldier Systems - Warrior Dem/Val

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 201	5	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val	Project (Number/Name) S65 / Soldier Power			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016	
Description: Integrated Soldier Power/Data System (ISPDS) and	individual power/Conformal Wearable Battery (CWB)				
FY 2014 Accomplishments: Matured an integrated Soldier system capable of managing powe carried peripherals. This system comprises of a safe rechargeable conforms to the Soldier's body armor and improved outer tactical of power for all Soldier worn devices on the body and serves as the Soldier system passes its power and peripheral C4I data through outer tactical vest and/or its soft armor. Partially matured Soldier of harvesting energy from a variety of available power sources and conducive to a variety of operating environments and capable of passmaller form factor. FY2015 efforts not funded with FY 2015 progrefforts for engineering and manufacturing development (EMD) act ISPDS and CWB.	e, high energy, lightweight, Soldier-wearable battery that vest. This improved conformal battery is the central source ne central power storage point for the Soldier. This integrate a wiring system that integrates into the fabric of the improve carried power/data management devices that are capable d developed a highly efficient solar and kinetic technology providing over twice the current level of power in an equal of the ram funding will expend FY 2014 funding in support of FY 2014.	ed ed r 015			
Title: Squad Power Generation and Squad Power Manager (SPN	1)	4.338	-		
Description: Soldier portable, renewable energy solutions and ch	narging capability for Squad formations.				
FY 2014 Accomplishments: Developed Soldier-portable, renewable energy solutions that have operations for 72 hours, while decreasing dependence on combat optimized lightweight universal, Soldier-portable chargers and ene electronic devices used in the conventional BCT formations. FY20 FY 2014 funding in FY 2015 to support EMD activities leading to I Generation and SPM.	t logistics through the use of Solar technology. Developed a ergy harvesters capable of supporting the variety of batterie 015 Efforts not funded with FY 2015 program funding will ex	nd s and pend			
Title: Soldier Power Test and Evaluation		0.886	-	0.60	
Pescription: Integration testing and annual testing and evaluation FY 2014 Accomplishments: Conducted annual developmental test and evaluation on Soldier Faberdeen Proving Ground, Maryland with focus on environmental magnetic compatibility. Conducted operational test and evaluation Transformative Reductions in Operational Energy Consumption (**)	Power components at Electronic Proving Ground, Arizona a testing, reliability, electro-magnetic interference and electro n on Soldier Power components at Fort Bliss, Texas and	D-			

PE 0604827A: Soldier Systems - Warrior Dem/Val Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 5	Project (Number/Name) S65 / Soldier Power			
3. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
(JWTC); Okinawa, Japan. Partially completed test and evaluation of and performance at the Soldier and Squad levels. FY 2015 efforts n funding in support of a limited user test leading to the Milestone C/F	ot funded with FY 2015 program funding will expend FY20			
FY 2016 Plans: Will conduct developmental test (DT) and evaluation on Soldier Power parvesters which include Small Unit Power generation devices at the Proving Ground, Arizona and Aberdeen Proving Ground, Maryland of magnetic interference and electro-magnetic compatibility. Conduct events and evaluation on Soldier Power components at Fort Devense Fort Bragg, North Carolina; and a Joint operational test in the tropical system including: Brigade level support, equipping, training, test correquired); environmental testing, and electronic warfare testing.	e Individual, Squad and Platoon power levels at Electronic with focus on environmental testing, reliability, electro- user assessment, verification and operational test (OT) s, Massachusetts; Fort Bliss, Texas; Fort Benning, Georgi al environment. Support Soldier Power equipment as a NI	a; E		
Title: Soldier Power Generation (SPG)		-	-	1.48
Description: Soldier portable, renewable energy solutions for Soldi	er Power Generation.			
FY 2016 Plans: Will mature Soldier-Worn technologies such as highly efficient solar operating environments and capable of providing twice the current lessoldier power solutions that have the capacity to sustain expeditional independence of combat logistics through the use of other alternative and optimization of lightweight, Soldier-portable chargers/harvesters devices used in tactical formations. The program funding will support 4QFY16 for SPG.	evel of power to achieve energy independence. Will devel ary austere operations for 72 hours, while achieving energ re renewable sources of power. Will continue developments and generators capable of supporting the variety of power.	y t		
Title: Platoon Power Generator (PPG)		-	-	3.32
Description: Prepare for award and manage an EMD phase R&D o	contract for the PPG.			
FY 2016 Plans: Award EMD contract and fund applicable functional support agreem	ents.			
	Accomplishments/Planned Programs Subt	otals 7.164	_	5.41

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val	Project (Number/Name) S65 / Soldier Power
C. Other Program Funding Summary (\$ in Millions)	EV 2046	EV 2046 EV 2046	Coot To

			FY 2016	FY 2016	FY 2016				Cost To
Line Item	FY 2014	FY 2015	Base	000	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020 Complete Total Cost
• R80010000: <i>Small</i>	-	-	43.639	-	43.639	30.502	37.660	43.451	47.730 Continuing Continuing
Unit Power Increment									

Remarks

D. Acquisition Strategy

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 on a Firm Fixed Price (FFP) basis.

PEO CS/CSS Effort on the Platoon Power Generation:

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

Army

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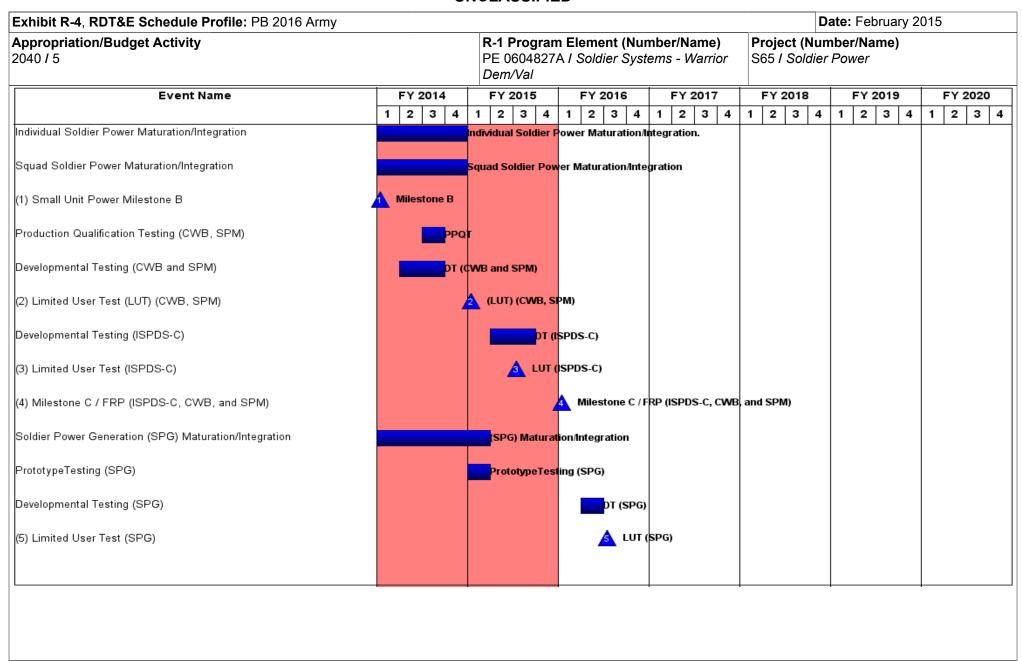
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Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2016 Army	/								Date:	February	2015		
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val						Project (Number/Name) S65 / Soldier Power				
Management Service	es (\$ in M	lillions)		FY 2	:014	FY	2015	FY 2 Ba	2016 ise		2016 CO	FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
PM integration and oversight	MIPR	Various : Various	1.263	1.842		-		0.237		-		0.237	Continuing	Continuing	Continuin	
		Subtotal	1.263	1.842		-		0.237		-		0.237	-	-	-	
Product Developmen	nt (\$ in M	illions)		FY 2	014	FY	2015	FY 2 Ba			2016 CO	FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
Soldier Power Development and Integration	TBD	TBD : TBD	8.104	3.774		-		1.002		-		1.002	Continuing	Continuing	Continuin	
Platoon Power Generation	C/CPIF	TBD : TBD	0.000	-		-		2.500		-		2.500	1.500	4.000	-	
		Subtotal	8.104	3.774		-		3.502		-		3.502	-	-	-	
Support (\$ in Millions	s)			FY 2	2014	FY	2015	FY 2 Ba	2016 ise		2016 CO	FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
Martix Support	MIPR	ARL, CERDEC, Various : Various	1.512	0.828		-		0.243		-		0.243	Continuing	Continuing	Continuin	
Platoon Power Generation	IA	TBD : TBD	0.000	-		-		0.820		-		0.820	0.600	1.420	-	
		Subtotal	1.512	0.828		-		1.063		-		1.063	-	-	-	
Test and Evaluation	(\$ in Milli	ions)		FY 2	014	FY	2015	FY 2 Ba			2016 CO	FY 2016 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	0.000	0.720		-		0.609		-		0.609	Continuing	Continuing	Continuin	
Platoon Power Generation	MIPR	TBD : TBD	0.000	_		_		_		_		_	0.220	0.220	_	

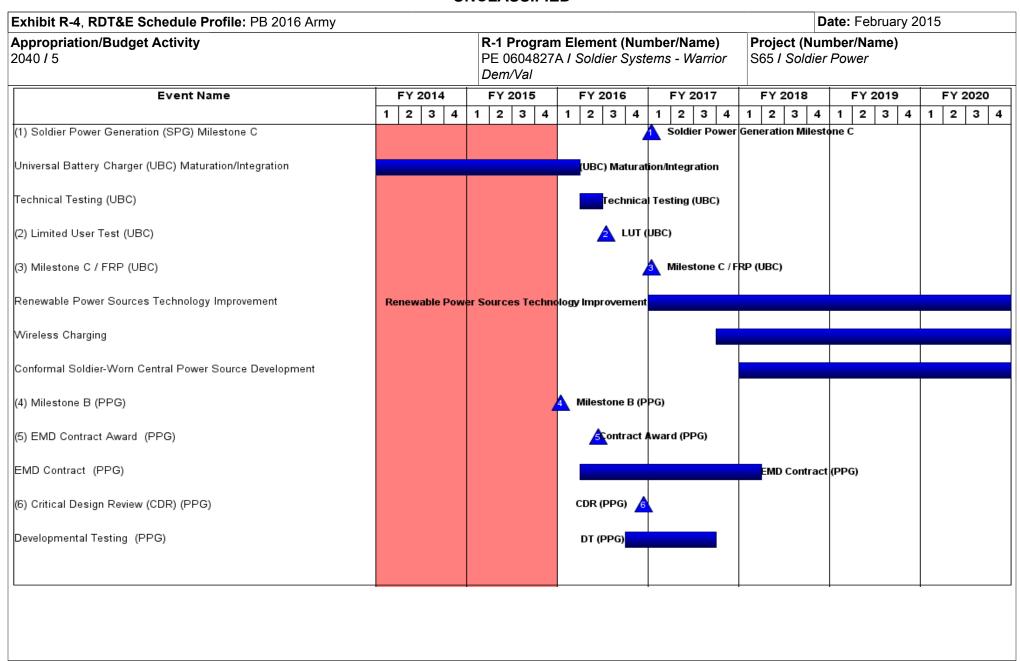
PE 0604827A: Soldier Systems - Warrior Dem/Val Army

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Army	,								Date:	February	2015	
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val Project (N S65 I Soldier					•	•			
Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY	2015	FY 2 Ba	2016 ise		2016 CO	FY 2016 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
		Subtotal	0.000	0.720		-		0.609		-		0.609	-	-	-
			Prior Years	FY 2	2014	FY	2015	FY 2 Ba			2016 CO	FY 2016 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	10.879	7.164		-		5.411		-		5.411	-	-	-

Remarks





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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army	y			Date: February	2015		
Appropriation/Budget Activity 2040 / 5		R-1 Progra PE 060482 Dem/Val	m Element (Number/Name) 7A <i>I Soldier Systems - Warrior</i>	Project (Number/Name) S65 / Soldier Power			
Event Name	FY 2014	FY 2015	FY 2016 FY 2017	FY 2018 FY 2019	FY 2020		
	1 2 3 4	1 2 3 4		1 2 3 4 1 2 3 4	1 2 3 4		
Pre Production Qualification Testing (PPQT) (PPG)			PPQT (PPG)				
(1) Limited User Test (LUT) (PPG)				▲LUT (PPG)			
(2) Mllestone C (PPG)				A Milestone C (PPG)			
			-	-	•		

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
, , ,	,	Project (N S65 / Sold	umber/Name) ier Power

Schedule Details

	Sta	End		
Events	Quarter	Year	Quarter	Year
Individual Soldier Power Maturation/Integration	1	2013	4	2014
Squad Soldier Power Maturation/Integration	1	2013	4	2014
Small Unit Power Milestone B	1	2014	1	2014
Production Qualification Testing (CWB, SPM)	3	2014	3	2014
Developmental Testing (CWB and SPM)	2	2014	3	2014
Limited User Test (LUT) (CWB, SPM)	1	2015	1	2015
Developmental Testing (ISPDS-C)	2	2015	3	2015
Limited User Test (ISPDS-C)	3	2015	3	2015
Milestone C / FRP (ISPDS-C, CWB, and SPM)	1	2016	1	2016
Soldier Power Generation (SPG) Maturation/Integration	1	2014	1	2015
PrototypeTesting (SPG)	1	2015	1	2015
Developmental Testing (SPG)	2	2016	2	2016
Limited User Test (SPG)	3	2016	3	2016
Soldier Power Generation (SPG) Milestone C	1	2017	1	2017
Universal Battery Charger (UBC) Maturation/Integration	1	2014	1	2016
Technical Testing (UBC)	2	2016	2	2016
Limited User Test (UBC)	3	2016	3	2016
Milestone C / FRP (UBC)	1	2017	4	2020
Renewable Power Sources Technology Improvement	1	2017	4	2020
Wireless Charging	4	2017	1	2021
Conformal Soldier-Worn Central Power Source Development	1	2018	1	2021
Milestone B (PPG)	1	2016	1	2016

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
1	, ,	Project (N S65 / Soldi	umber/Name) ier Power

	Sta	End		
Events	Quarter	Year	Quarter	Year
EMD Contract Award (PPG)	2	2016	2	2016
EMD Contract (PPG)	2	2016	1	2018
Critical Design Review (CDR) (PPG)	4	2016	4	2016
Developmental Testing (PPG)	4	2016	3	2017
Pre Production Qualification Testing (PPQT) (PPG)	3	2017	1	2018
Limited User Test (LUT) (PPG)	1	2018	1	2018
Mllestone C (PPG)	2	2018	2	2018

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	rmy							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 5					_		t (Number/ r Systems -	,	Project (N S75 / Grou		,	
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S75: Ground Soldier Ensemble	-	18.313	5.233	12.431	-	12.431	10.897	11.009	11.073	11.235	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.

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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Test and Evaluation including twice a year Network Integration Evaluation (NIE) to gain Soldier feedback	6.007	1.292	2.596
Description: Funding is provided for the following efforts.			
FY 2014 Accomplishments: Conducted NW test and evaluation for technical verification at developmental test events and user verification through IOT&E operational assessment at Network Integration Evaluation (NIE) 14.2 to support FY15 Low Rate Initial Production (LRIP) decision. Supported NW as a baseline NIE system including: Brigade level support, equipping, training, and spares for NW; conducted yearly Army Interoperability Certification; environmental testing; electronic warfare testing; and Information Assurance penetration prevention testing for new commercial smart devices.			
FY 2015 Plans:			

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Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val	Project (Nu S75 / Groun		lame) er Ensemble	
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2014	FY 2015	FY 2016
Continue NW test and evaluation for technical verification at developmetesting including Initial Operational Test & Evaluation (IOT&E) for a LR NIE system including: Brigade level support, equipping, training, test concertification; environmental testing; and Information Assurance penetra	IP decision. Will continue support for NW as a baselin osts, and spares for NW; yearly Army Interoperability				
FY 2016 Plans: Will conduct NW test and evaluation for technical verification at develop Operational Test and Evaluation to include new hardware and new Rifl NIE system including: Brigade level support, equipping, training, test concertification; environmental testing; electronic warfare testing; and Info commercial smart devices. Will test emerging secure 4G/LTE Army New York Plans 1998.	eman Radios from PEO C3T. Support NW as a basellosts, and spares for NW; yearly Army Interoperability rmation Assurance penetration prevention testing for n				
Title: Hardware and Software Integration and Evaluation for Capability	Improvements		5.138	1.244	5.00
Description: Funding is provided for the following efforts.					
FY 2014 Accomplishments: Continued software integration of the Army's Joint Battle Command Pladevice hardware to support Governmental T&E activities. Conducted I preparing for Full Rate Production Decision in FY15. Integrated applicated applicated production by the provided Software updates other testing supporting DT and OT.	Developmental Tests (DT), and Operational Testing (Oations to expand Nett Warrior capabilities to meet othe	r É			
FY 2015 Plans: Acquire, integrate and evaluate low cost, advanced commercial smart of into the NW system of proven and mature capabilities. Integrate 3rd paremerging technology and inform the acquisition decision process as to C3T radios from competitive Rifleman Radio procurement.	arty software combat applications and keep pace with				
FY 2016 Plans: Integrate and evaluate emerging advanced commercial smart devices, systems for potential adoption into the NW system. Will continue to intefunctionality. This will continually allow NW to keep pace with emerging acquisition decision process as to yearly Army Capability Set insertion.	egrate 3rd party software combat applications for incre- g technology, lower cost and weight, and inform the fut	ased			
Title: Software Development and Integration			4.722	2.082	2.49
Description: Funding is provided for the following efforts.					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	i
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val		Number/N ound Soldi	lame) er Ensemble	
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2014	FY 2015	FY 2016
FY 2014 Accomplishments: Completed software integration of the Army's Joint Battle Command commercial smart device hardware to support Governmental T&E a Operational Testing (OT) that led to production decisions and fieldin other Army applications that expanded Nett Warrior capabilities to mobile hand-held computing environment. Provided Software updated and other required testing supporting DT and OT.	ctivities. Conducted Developmental Tests (DT), and ng for FY14 and prepared for LRIP decision in FY15. Inte neet other requirements utilizing a common smart device	in			
FY 2015 Plans: Develop and integrate Nett Warrior software development kit product the NW system to provide the most current capability into production Nett Warrior capabilities to meet other Army requirements with a confor NW program to keep pace with Army software capability updates interoperability certification for Army Capability Sets.	n on a semi-annual basis. Integrate applications to expairment of the model of the semi-annual basis. Integrate applications to expair on a semi-annual basis.	nd nges			
FY 2016 Plans: Will continue to integrate other Army required applications via the N to meet other requirements utilizing a common smart device in a consoftware that allows the NW program to keep pace with Army software Capability Sets and information assurance accreditation.	mmon mobile hand held computing environment. Will ma	aintain			
Title: Integration with AN/PRC-154A and Vehicle Platforms			0.179	-	1.41
Description: Funding is provided for the following efforts.					
FY 2014 Accomplishments: Completed integration and verification of the AN/PRC-154A radio in Integrated GPS relay and power recharging systems for Stryker Brig verification of multiple vehicle integration kits to support NW and the	gade Combat Team vehicles with development, testing a				
FY 2016 Plans: Integrate new commercial smart devices with competitively procured Operational Testing in FY16/17. Will conduct integration of Army se		ned			
Title: Conduct Systems Engineering and Program Management Su	pport to Nett Warrior		2.267	0.615	0.92
Description: Funding is provided for the following efforts.					
		1	1		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	j
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A I Soldier Systems - Warrior Dem/Val	_	ct (Number/N Ground Soldi	lame) er Ensemble	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
FY 2014 Accomplishments: Conducted government systems engineering and program manag preparation for upcoming acquisition lifecycle decision. Integrated technology for test and evaluation. Collected input from Soldiers a fightability, safety and effectiveness via surveys and electronic dat OT) events.	the latest commercial smart devices, software applications t semi-annual NIE events that improved NW size, weight,	power,			
FY 2015 Plans: Continue to conduct government systems engineering and prograt documentation preparation for Full Rate Production decision. Colle NW size, weight, power, fightability, safety and effectiveness via stroperational Testing (DT/OT) events.	ect input from Soldiers at semi-annual NIE events to impro				
FY 2016 Plans: Will continue to conduct government systems engineering and pro a prime contractor. Will collect input from Soldiers to improve NW surveys. Will manage system configuration, and execute test, devanalysis of emerging innovative commercial technologies to lower	size, weight, power, fightability, safety and effectiveness vivelopment and integration planning including investigation	ia			
	Accomplishments/Planned Programs Sub	totals	18.313	5.233	12.431

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

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	000	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• OPA 3, R80501: <i>OPA 3,</i>	61.859	-	43.639	-	43.639	30.502	37.660	43.451	47.730	Continuing	Continuing
R80501, Ground Soldier System											
• RDT&E, PE 0603827A S49:	_	-	-	-	-	-	-	-	-		
RDT&E, PE 0603827A S49 -											

Ground Soldier System (GSS)

Remarks

D. Acquisition Strategy

The Nett Warrior (NW) program provides unparalleled situational awareness and mission command to dismounted combat leaders through an integrated End User Device, power source and radio. The NW program executed a MS A in FY09 and began three competing TD phase contracts leading to developmental and operational testing FY10-11. A Configuration Steering Board (CSB) was held August 2011 which restructured the program to implement COTS-based technology. NW was

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
,		- 3 (umber/Name) und Soldier Ensemble

restructured to use commercial End User Devices and the government as the prime integrator. Twice a year technology maturation and integration is assessed at NIE events. The NW MS C was approved 3 April 2012 followed by a low rate Capability Set (CS) 14 production award. Conducted Developmental Test and Evaluation during 4QFY12-1QFY13, followed by 1QFY13 Operational Test (OT) as well as hardware, software, integration and program management. The Developmental and Operational tests validated the system utility, supportability, and austere-environment power production and regeneration strategy that resulted in a production decision in 2QFY13 to procure the CS14 quantity of NW systems and support equipment. Conducted 1QFY14 Operational Test, and additional Developmental and Operational Tests during 2QFY14-3QFY14, as well as hardware, software, integration and program management. The Developmental and Operational tests will continue to validate the system utility, supportability, and austere-environment power production and regeneration strategy. Initial Operational Tests under OSD oversight are being conducted in 3QFY14 and 1QFY15 leading to a LRIP decision in 3QFY15 to procure the CS16/17 quantity of NW systems and support equipment. While in LRIP production NW also continues to reduce size, weight and power through a semi-annual integration and evaluation and test of the latest commercial smart device technologies which evolve continuously.

E. Performance Metrics

N/A

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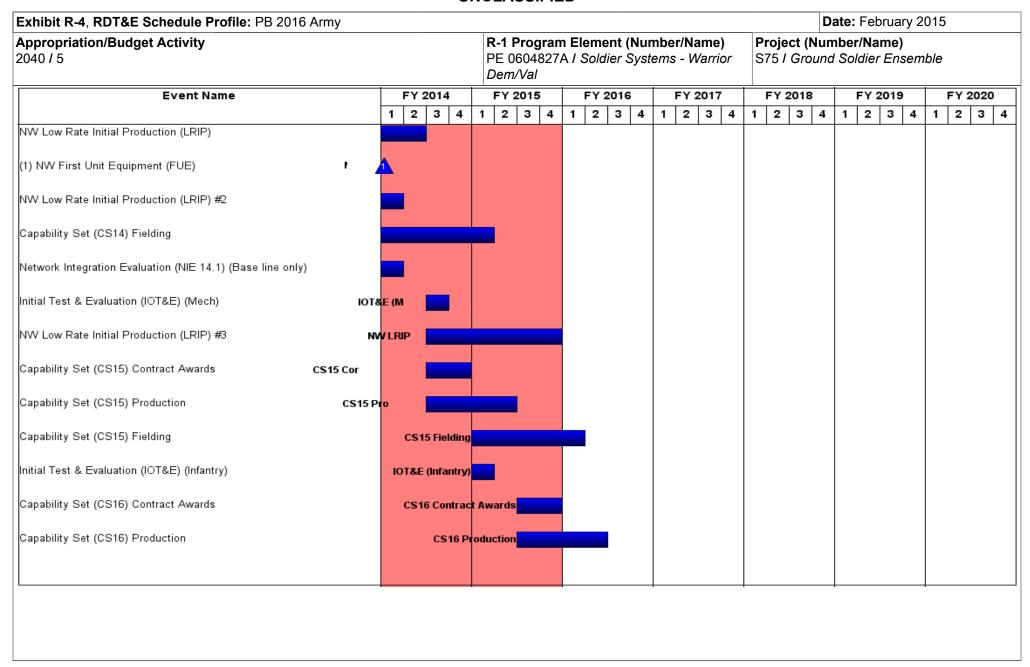
					Ur	ICLASS	DIFIED								
Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2016 Arm	y								Date:	February	2015	
Appropriation/Budge 2040 / 5	et Activity	1					4827A / S	ement (N Soldier Sy				(Number		emble	
Management Service	es (\$ in M	illions)		FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Hardware and software integration and evaluation	Various	Various : Various	16.663	5.138		1.244		5.004		-		5.004	Continuing	Continuing	Continuing
Systems Engineering and program management support	Various	Various : Various	20.843	2.267		0.615		0.928		-		0.928	Continuing	Continuing	Continuing
		Subtotal	37.506	7.405		1.859		5.932		-		5.932	-	-	-
Product Developmer	nt (\$ in Mi	illions)		FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Integration with Project Manager Tactical Radios and Vehicle Platforms	Various	Various : Various	1.882	0.179		-		1.412		-		1.412	Continuing	Continuing	Continuing
		Subtotal	1.882	0.179		-		1.412		-		1.412	-	-	-
Support (\$ in Millions	s)			FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Software Development and Integration	Various	Various : Various	5.795	4.722		2.082		2.491		-		2.491	Continuing	Continuing	Continuing
		Subtotal	5.795	4.722		2.082		2.491		-		2.491	-	-	-
Test and Evaluation	(\$ in Milli	ons)		FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Various Testing Organizations	Various	Various : Various	16.022	6.007		1.292		2.596		-		2.596	Continuing	Continuing	Continuing
		Subtotal	16.022	6.007		1.292		2.596		-		2.596	-	-	-

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2016 Army	,					Date:	February	2015	
								mble	
Prior Years	FY 2014	FY 2015	FY 2016 Base			FY 2016 Total	Cost To	Total Cost	Target Value o
61.205	18.313	5.233	12.431	-		12.431		-	-
	Prior Years	Prior Years FY 2014	Prior Years FY 2014 FY 2015	Prior Years FY 2014 FY 2015 R-1 Program Element (Number/left PE 0604827A / Soldier Systems - Dem/Val	R-1 Program Element (Number/Name) PE 0604827A Soldier Systems - Warrior Dem/Val	R-1 Program Element (Number/Name) Project	R-1 Program Element (Number/Name) Project (Number PE 0604827A Soldier Systems - Warrior S75 Ground Soldier Prior Years FY 2014 FY 2015 Base OCO FY 2016 Total	Prior Years FY 2014 FY 2015 Base Date: February Date: February Project (Number/Name) S75 I Ground Soldier Ensemble Project (Number/Name) S75 I Ground Soldier Ensemble Prior FY 2016 FY 2016 Complete	Prior Years FY 2014 FY 2015 R-1 Program Element (Number/Name) Project (Number/Name) S75 I Ground Soldier Ensemble FY 2016 FY 2016 Cost To Complete Cost



									,	Exhibit R-4, RDT&E Schedule Profile: PB 2016 Arm
	nm Element (Number/Name) 7A / Soldier Systems - Warrior									Appropriation/Budget Activity 2040 / 5
	FY 2016 FY 2017	FY 2015				Y 20	_			Event Name
4 1 2 3 4 1 2 3 4 1 2 3		- - -	4	Ŀ	3	2	Ŀ	1	1	
	ng	CS16 Fielding								Capability Set (CS16) Fielding
	OT&E									Operational Test & Evaluation (OT&E)
	Integration	v Tactical Radio Inte	Army	ı						Army Tactical Radio Integration
	act Awards	CS17 Contract								Capability Set (CS17) Contract Awards
	Production	CS17 Pro								Capability Set (CS17) Production
	CS17 Fielding	С								Capability Set (CS17) Fielding

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
,	` ` ` `	• `	umber/Name) und Soldier Ensemble

Schedule Details

	Sta	Start				
Events	Quarter	Year	Quarter	Year		
NW Low Rate Initial Production (LRIP)	3	2012	2	2014		
NW First Unit Equipment (FUE)	1	2014	1	2014		
NW Low Rate Initial Production (LRIP) #2	3	2013	1	2014		
Capability Set (CS14) Fielding	1	2014	1	2015		
Network Integration Evaluation (NIE 14.1) (Base line only)	1	2014	1	2014		
Initial Test & Evaluation (IOT&E) (Mech)	3	2014	3	2014		
NW Low Rate Initial Production (LRIP) #3	3	2014	4	2015		
Capability Set (CS15) Contract Awards	3	2014	4	2014		
Capability Set (CS15) Production	3	2014	2	2015		
Capability Set (CS15) Fielding	1	2015	1	2016		
Initial Test & Evaluation (IOT&E) (Infantry)	1	2015	1	2015		
Capability Set (CS16) Contract Awards	3	2015	4	2015		
Capability Set (CS16) Production	3	2015	2	2016		
Capability Set (CS16) Fielding	1	2016	4	2016		
Operational Test & Evaluation (OT&E)	4	2016	1	2017		
Army Tactical Radio Integration	3	2016	4	2016		
Capability Set (CS17) Contract Awards	3	2016	4	2016		
Capability Set (CS17) Production	3	2016	2	2017		
Capability Set (CS17) Fielding	4	2016	4	2017		