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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	28.358	18.467	6.157	-	6.157	11.976	16.416	9.459	5.092	Continuing	Continuing
DX7: TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM	-	-	-	0.922	-	0.922	0.940	0.958	0.977	0.996	Continuing	Continuing
S65: Soldier Power	-	4.499	7.410	-	-	-	-	-	-	-	-	11.909
S75: Ground Soldier Ensemble	-	23.859	11.057	5.235	-	5.235	11.036	15.458	8.482	4.096	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

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

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.

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Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	51.851	48.477	18.923	-	18.923
Current President's Budget	28.358	18.467	6.157	-	6.157
Total Adjustments	-23.493	-30.010	-12.766	-	-12.766
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-23.493	-30.010	-9.062	-	-9.062
• Other Adjustments 2	-	-	-3.704	-	-3.704

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val				Project (Number/Name) DX7 / TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DX7: TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM	-	-	-	0.922	-	0.922	0.940	0.958	0.977	0.996	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
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 annually are evaluated. The best commercial solutions will cut into production. TCAPS will also evaluate lower cost active hearing protection solutions for soldiers without radios.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Title: Testing Tactical Communications and Protective Ssystem (TCAPS)										-	-	0.922
Description: TCAPS procurement of test articles and testing												
FY 2015 Plans: TCAPS will buy test articles and conduct an annual relook of commercial technology to seek improved capabilities, conduct testing and transition to procurement.												
Accomplishments/Planned Programs Subtotals										-	-	0.922
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• SSN B55510: Tactical Communications and Protective System	12.967	31.868	24.354	-	24.354	21.809	20.176	20.462	20.867	-	152.503	

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C. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Remarks												
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 testing and transition to procurement.												
E. Performance Metrics												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>						Project (Number/Name) DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>			
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEPM	MIPR	Fort Belvoir : Ft Belvoir, VA	0.018	-		-		0.300		-		0.300	-	0.318	-
Subtotal			0.018	-		-		0.300		-		0.300	-	0.318	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Articles (Engineering Assessment)	MIPR	DLA DSCP : Philadelphia, PA	0.026	-		-		0.028	May 2015	-		0.028	-	0.054	-
Test Articles (Development Test)	MIPR	DLA DSCP : Philadelphia, PA	0.020	-		-		0.019	May 2015	-		0.019	-	0.039	-
Test Articles (OT)	MIPR	DLA DSCP : Philadelphia, PA	0.120	-		-		0.141	May 2015	-		0.141	-	0.261	-
Subtotal			0.166	-		-		0.188		-		0.188	-	0.354	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Annual Relook of Technology/Evaluation	MIPR	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.177	-		-		0.190	Jan 2015	-		0.190	-	0.367	-
Developmental and Operational Test	Various	ATEC, AEC, OTC, ARL-SLAD : Various Locations	0.411	-		-		0.244	Feb 2015	-		0.244	-	0.655	-
Customer Test	Various	Army Hearing Program Office : Various Locations	0.028	-		-		-		-		-	-	0.028	-
Subtotal			0.616	-		-		0.434		-		0.434	-	1.050	-

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			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.800	-		-		0.922		-		0.922	-	1.722	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>			Project (Number/Name) DX7 / <i>TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Annual Relook of Technology for Evaluation/ Integration Test for FY16																												
Developmental and Operational Assessment for FY16																												
Annual Relook of Technology for Evaluation/ Integration Test for FY17																												
Developmental and Operational Assessment for FY17																												
Annual Relook of Technology for Evaluation/ Integration for FY18																												
Developmental and Operational Assessment for FY18																												
Annual Relook of Technology for Evaluation/ Integration Test for FY19																												
Developmental and Operational Assessment for FY19																												
Annual Relook of Technology for Evaluation/ Integration Test for FY20																												
Developmental and Operational Assessment for FY20																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) 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	1	2015	3	2015
Developmental and Operational Assessment for FY16	2	2015	4	2015
Annual Relook of Technology for Evaluation/Integration Test for FY17	1	2016	3	2016
Developmental and Operational Assessment for FY17	2	2016	4	2016
Annual Relook of Technology for Evaluation/Integration for FY18	1	2017	3	2017
Developmental and Operational Assessment for FY18	2	2017	4	2017
Annual Relook of Technology for Evaluation/Integration Test for FY19	1	2018	3	2018
Developmental and Operational Assessment for FY19	2	2018	4	2018
Annual Relook of Technology for Evaluation/Integration Test for FY20	1	2019	3	2019
Developmental and Operational Assessment for FY20	2	2019	4	2019

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val				Project (Number/Name) S65 / Soldier Power			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S65: Soldier Power	-	4.499	7.410	-	-	-	-	-	-	-	-	11.909
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note Not applicable for this item.												
A. Mission Description and Budget Item Justification Soldier and Small Unit Power 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 systems enable the warfighter to sustain themselves for extended mission duration in the most austere operating environments. An advanced, Integrated Soldier Power/Data System (ISPDS) provides the Soldier with a 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, and portable Soldier radios. This effort began as a Congressional add for development and system improvement for early fuel cell and battery technology and has developed into a line of power sources and solutions suited for not only the individual Soldier, but for the small unit as well. These power solutions include, but are not limited to, Soldier-worn power systems, integrated power vests, power management devices and small unit chargers/scavengers; all intended for use in the most austere operating environments. 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 August 2013 Small Unit Power MDD, September 2013 Small Unit Power Capability Development Document (CDD), March 2011 Soldier Protection CDD, the December 2011 Operational Energy Initial Capabilities Document (ICD), the Army Chief of Staff's Squad: Foundation of the Decisive Force initiative, and the December 2011 Operation Enduring Freedom (OEF) Operational Energy directives.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Individual Soldier Power Articles: Description: Integrated Soldier Power/Data System (ISPDS) and individual power FY 2013 Accomplishments: Mature an integrated Soldier system capable of managing power and system C4I data from Soldier worn/carried peripherals. This system is comprised of a safe, high energy, lightweight, Soldier-wearable battery that conforms to the Soldiers body armor and improved outer tactical vest. This conformal battery is the central source of power for all Soldier worn devices and serves									3.404	1.940	-	
									-	-	-	

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val	Project (Number/Name) S65 / Soldier Power		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
as the central power storage point for integrated. This integrated Soldier system passes its power and peripheral system C4I data through a wiring system that is integrated into the fabric of the improved outer tactical vest and/or its soft armor. Efforts also include Soldier carried power/data management devices that are capable of harvesting energy from a variety of available power source.				
FY 2014 Plans: Will continue to mature an integrated Soldier system capable of managing power and system C4I data from Soldier worn/carried peripherals. This system will be comprised of a safe, high energy, lightweight, Soldier-wearable battery that will conform to the Soldier's body armor and improved outer tactical vest. This improved conformal battery will be the central source of power for all Soldier worn devices and serve as the central power storage point for the integrated Soldier. This integrated Soldier system will pass its power and peripheral C4I data through a wiring system that will be integrated into the fabric of the improved outer tactical vest and/or its soft armor. Will continue to mature Soldier carried power/data management devices that are capable of harvesting energy from a variety of available power source and will mature a highly efficient solar technology conducive to a variety of operating environments and capable of providing over twice the current level of power in an equal or lesser form factor.				
Title: Squad and Soldier Power Generation		1.095	4.584	-
Articles:		-	-	-
Description: Soldier portable, renewable energy solutions for Squad formation				
FY 2013 Accomplishments: Development of Soldier-portable, renewable energy solutions that have the power capacity to sustain expeditionary austere operations for 72 hours while decreasing dependence on packaged fuel and combat logistics through the use of improved renewable energy solutions and hybridized technology. Technologies include Soldier worn energy harvesting technologies such as kinetic and/or solar energy harvesters. These technologies are capable of harvesting energy from the Soldiers movement and/or from the sun. Continue development of lightweight, Soldier-portable chargers and power scavenging technology capable of supporting the variety of batteries used in the conventional IBCT formation.				
FY 2014 Plans: Will continue development of Soldier-portable, renewable energy solutions that have the power capacity to sustain expeditionary austere operations for 72 hours, while decreasing dependence on combat logistics through the use of fuels cells and hybridized technology. Will continue development and optimization of lightweight, Soldier-portable chargers capable of supporting the variety of batteries used in the conventional IBCT formation.				
Title: Soldier Power Test and Evaluation		-	0.886	-
Articles:		-	-	-

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S65 / <i>Soldier Power</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Description: Integration testing and annual testing and evaluation events FY 2014 Plans: Conduct annual developmental test and evaluation on Soldier Power components at Electronic Proving Ground, Arizona and Aberdeen Proving Ground, Maryland with focus on environmental testing, reliability, electro-magnetic interference and electro-magnetic compatibility. Conduct operational test and evaluation on Soldier Power components at Fort Bliss, Texas and Fort Bragg, North Carolina to evaluate operational reliability and performance at the Soldier and Squad levels.			
Accomplishments/Planned Programs Subtotals		4.499	7.410
C. Other Program Funding Summary (\$ in Millions)			
N/A			
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.			
E. Performance Metrics			
N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val				Project (Number/Name) S65 / Soldier Power					
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM integration and oversight	MIPR	Various : Various	0.000	1.263		2.088		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	1.263		2.088		-		-		-	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Soldier Power Development and Integration	TBD	TBD : TBD	5.648	2.456		3.774		-		-		-	Continuing	Continuing	Continuing
Subtotal			5.648	2.456		3.774		-		-		-	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Martix Support	MIPR	ARL, CERDEC, Various : Various	0.732	0.780		0.828		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.732	0.780		0.828		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various Testing Organizations	MIPR	Various : Various	0.000	-		0.720		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	-		0.720		-		-		-	-	-	-

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	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.380	4.499		7.410		-		-		-	-	-	-
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>			Project (Number/Name) S65 / <i>Soldier Power</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Individual Soldier Power Maturation/Integration																												
Individual Soldier Power Evaluation (NIE 13.2)																												
Squad Soldier Power Maturation/Integration																												
Squad Soldier Power Evaluation (NIE 13.2)																												
Individual Soldier Power Evaluation																												
Squad Soldier Power Evaluation																												

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

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Individual Soldier Power Maturation/Integration	1	2013	4	2014
Individual Soldier Power Evaluation (NIE 13.2)	2	2013	3	2013
Squad Soldier Power Maturation/Integration	1	2013	4	2014
Squad Soldier Power Evaluation (NIE 13.2)	2	2013	3	2013
Individual Soldier Power Evaluation	2	2014	3	2014
Squad Soldier Power Evaluation	2	2014	3	2014

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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				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
S75: Ground Soldier Ensemble	-	23.859	11.057	5.235	-	5.235	11.036	15.458	8.482	4.096	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			
# The FY 2015 OCO Request will be submitted at a later date.													
Note													
Previously funded in 0603827A - Soldier Systems Advanced Development - S49 Ground Soldier System.													
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 harnesses soldiers' experience in combat operations and employs combat veterans for Soldier feedback enhancing human factor design and fightability of the system. 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 End User Devices. This project funds the following: 1) Yearly developmental and operational test of the NW with continually advancing commercial smart device technology inserted, 2) Software development for planned updates, 3) Integration with AN/PRC-154A, including vehicle power integration, 4) Government led integration and system engineering and program management, 5) Incorporation of other applications and capabilities into Nett Warrior, 6) and Conduct NW IOT&E with Mechanized and Infantry units in FY14 and FY15.													
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015		
Title: Test and Evaluation including twice a year Network Integration Evaluation (NIE) to gain Soldier feedback									7.242	6.357	2.873		
Articles:									-	-	-		
Description: Funding is provided for the following effort													
FY 2013 Accomplishments:													
Continued NW developmental and operational evaluation of the latest commercial smart devices and emerging technologies. Conducted testing at NIE (with multiple commercial smart devices to support yearly production decisions) and program													

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>		Project (Number/Name) S75 / <i>Ground Soldier Ensemble</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
management support for NW. Test events included: Brigade level support, equipping, training, test costs, and spares for NW Developmental and Operational Test at NIE to support a Low Rate Initial Production extension decision; Logistics Demonstration; safety testing; airborne; air-worthiness; Army Interoperability Certification; environmental testing; electronic warfare testing; and Information Assurance penetration prevention testing.					
FY 2014 Plans: Conduct NW test and evaluation for technical verification at developmental events and user verification. Fund continual Developmental Test efforts. Fund Initial Operational Test and Evaluation (IOT&E) Phase I (Mechanized unit) at Network Integration Evaluation (NIE) 14.2 events to support continued production decisions. Support NW as a baseline NIE system including: Brigade level support, equipping, training, and spares for NW; yearly Army Interoperability Certification; environmental testing; electronic warfare testing; and Information Assurance penetration prevention testing for new commercial smart devices.					
FY 2015 Plans: Will continue NW test and evaluation for technical verification at developmental events and user verification through operational testing including Initial Operational Test & Evaluation (IOT&E) Phase II (Infantry unit) for a Full Rate Production (FRP) Decision. Support NW as a baseline NIE system including: Brigade level support, equipping, training, test costs, and spares for NW; yearly Army Interoperability Certification; environmental testing; electronic warfare testing; Stryker Interoperability testing; and Information Assurance penetration prevention testing for new commercial smart devices.					
Title: Hardware and Software Integration and Evaluation for Capability Improvements			4.241	1.680	0.565
Articles:			-	-	-
Description: Funding is provided for the following effort					
FY 2013 Accomplishments: Continued software integration of the Army's Joint Battle Command Platform software development kit for commercial smart device hardware to support Governmental T&E activities by conducting Developmental Tests (DT), and Operational Testing (OT) preparing for production decisions and fielding for FY14. Integrated applications to expand Nett Warrior capabilities to meet other requirements with a common smart device. Provided Software updates to support Army Interoperability Certification testing and other testing supporting DT and OT.					
FY 2014 Plans: Acquire, integrate and evaluate Brigade sized quantities of commercial smart devices, cables, and other hardware for potential integration into the NW system of proven and mature capabilities during the semi-annual NIE events. Integrate 3rd party software					

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
combat applications and keep pace with emerging technology and inform the acquisition decision process as to yearly Army Capability Set insertion.				
FY 2015 Plans: Integrate and evaluate small quantities of the latest commercial smart devices, cables, and other hardware for potential adoption into the NW system. Will continue to integrate 3rd party software combat applications for increased functionality. This will continually allow NW to keep pace with emerging technology and informs the future acquisition decision process as to yearly Army Capability Set insertion.				
Title: Software Development and Integration		2.099	2.032	0.964
Articles:		-	-	-
Description: Funding is provided for the following effort				
FY 2013 Accomplishments: Continued software integration of the Army's Joint Battle Command Platform software development kit for commercial smart device hardware to support Governmental T&E activities by conducting Developmental Tests (DT), and Operational Testing (OT) that led to production decisions and fielding for FY14. Integrated applications that expanded Nett Warrior capabilities to meet other requirements utilizing a common smart device. Provided Software updates that supported Army Interoperability Certification testing and other testing supporting DT and OT.				
FY 2014 Plans: Develop software based on the Army's Joint Battle Command Platform software development kit for commercial smart device hardware for potential integration into the NW system to provide the most current capability into production on a semi-annual basis. Integrate software for open architecture to facilitate incorporation of other applications with minimal integration while maintaining Secret Level Accreditation. Maintain software updates and changes for NW program to keep pace with Army software blocking updates, maintain information assurance accreditation, and retain interoperability certification for Army Capability Sets.				
FY 2015 Plans: Will continually integrate applications that expand Nett Warrior capabilities to meet other requirements utilizing a common smart device. Will continually modify the NW software architecture to align with Mobile Handheld CE V2.0 emerging architecture and allow for easier integration of third party applications onto the common Army platoon level computational platform. Will maintain software updates that allow the NW program to keep pace with Army software blocking updates, retain interoperability certification for Army Capability Sets and information assurance accreditation.				
Title: Integration with AN/PRC-154A and Cross Domain Capability		-	0.480	-
Articles:		-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army									Date: March 2014		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val				Project (Number/Name) S75 / Ground Soldier Ensemble			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015
Description: Funding is provided for the following effort											
FY 2014 Plans: Integrate new commercial smart devices with AN/PRC-154A Radio and cross domain guards as technology changes over time.											
Title: Conduct Systems Engineering and Program Management Support to Nett WarriorArticles:									10.277 -	0.508 -	0.833 -
Description: Funding is provided for the following effort											
FY 2013 Accomplishments: Conducted government systems engineering and program management support for NW program including documentation preparation for upcoming acquisition lifecycle decision. Integrated the latest commercial smart devices and technology for test and evaluation. Collected input from Soldiers at semi-annual NIE events that improved NW size, weight, power, fightability, safety and effectiveness via surveys and electronic data monitoring from Developmental and Operational Testing (DT/OT) events.											
FY 2014 Plans: Continue to conduct government systems engineering and program management support for NW program including documentation preparation for Full Rate Production decision. Develop advanced electronic training materials for improved leader training. Collect 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.											
FY 2015 Plans: Will continue to conduct government systems engineering and program management support for NW program. Will develop advanced electronic training materials for improved leader training. Will collect input from Soldiers to improve NW size, weight, power, fightability, safety and effectiveness via surveys.											
Accomplishments/Planned Programs Subtotals									23.859	11.057	5.235
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPA 3, R80501: OPA 3, R80501, Ground Soldier System	93.914	61.859	84.761	-	84.761	87.706	48.857	46.960	53.008	Continuing	Continuing
• RDT&E, PE 0603827A S49: RDT&E, PE 0603827A S49 - Ground Soldier System (GSS)	-	-	-	-	-	-	-	17.565	17.825	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				Project (Number/Name) S75 / <i>Ground Soldier Ensemble</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
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. 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 the 2QFY13 to procure the CS14 quantity of NW systems and support. Conduct a 1QFY14 Operational Test, 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-leading to a production decision in the 2QFY14 to procure the CS15 quantity of NW systems and support. While in 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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>						Project (Number/Name) S75 / <i>Ground Soldier Ensemble</i>			
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Hardware and software integration and evaluation	Various	Various : Various	12.422	4.241		1.680		0.565		-		0.565	Continuing	Continuing	Continuing
Systems Engineering and program management support	Various	Various : Various	10.566	10.277		0.508		0.833		-		0.833	Continuing	Continuing	Continuing
SSI BTR	Various	Various : Various	0.258	-		-		-		-		-	-	0.258	-
Subtotal			23.246	14.518		2.188		1.398		-		1.398	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integration with Project Manager Tactical Radios and Vehicle Platforms	Various	Various : Various	1.882	-		0.480		-		-		-	Continuing	Continuing	Continuing
Subtotal			1.882	-		0.480		-		-		-	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development and Integration	Various	Various : Various	3.696	2.099		2.032		0.964		-		0.964	Continuing	Continuing	Continuing
Subtotal			3.696	2.099		2.032		0.964		-		0.964	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various Testing Organizations	Various	Various : Various	8.780	7.242		6.357		2.873		-		2.873	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014		
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Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			8.780	7.242		6.357		2.873		-		2.873	-	-	-

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	37.604	23.859	11.057	5.235	-	5.235	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NW Low Rate Initial Production (LRIP)																												
NW Developmental Test (DT)																												
Network Integration Evaluation (NIE 13.1)																												
NW First Unit Equipment (FUE)																												
Network Integration Evaluation (NIE 13.2)																												
Low Rate Initial Production (LRIP) #2 Contract Awards																												
NW Low Rate Initial Production (LRIP) #2																												
Capability Set (CS14) Fielding																												
Network Integration Evaluation (NIE 14.1) (Base line only)																												
Initial Test & Evaluation (IOT&E) (Mech)																												
Capability Set (CS15) Contract Awards																												
Capability Set (CS15) Production																												
Capability Set (CS15) Fielding																												
Initial Test & Evaluation (IOT&E) (Infantry)																												
Capability Set (CS16) Contract Awards																												
Capability Set (CS16) Production																												
Capability Set (CS16) Fielding																												
Follow-on Operational Test & Evaluation (FOT&E)																												
Capability Set (CS17) Contract Awards																												
Capability Set (CS17) Production																												
Capability Set (CS17) Fielding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S75 / <i>Ground Soldier Ensemble</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NW Low Rate Initial Production (LRIP)	3	2012	2	2014
NW Developmental Test (DT)	4	2012	1	2013
Network Integration Evaluation (NIE 13.1)	1	2013	1	2013
NW First Unit Equipment (FUE)	1	2014	1	2014
Network Integration Evaluation (NIE 13.2)	3	2013	3	2013
Low Rate Initial Production (LRIP) #2 Contract Awards	3	2013	4	2013
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
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	4	2015	4	2016
Follow-on Operational Test & Evaluation (FOT&E)	1	2016	1	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