Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604827A: Soldier Systems - Warrior Dem/Val

BA 5: Development & Demonstration (SDD)

| , | | | | | | | | | | | |
|---------------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| Total Program Element | 20.122 | 61.350 | 51.851 | - | 51.851 | 56.695 | 15.716 | 16.976 | 18.402 | Continuing | Continuing |
| S56: MOUNTED SOLDIER | 20.122 | 22.803 | - | - | - | - | - | - | - | Continuing | Continuing |
| S65: SOLDIER POWER | - | - | 5.054 | - | 5.054 | 9.914 | - | - | - | Continuing | Continuing |
| S75: GROUND SOLDIER ENSEMBLE | - | 38.547 | 46.797 | - | 46.797 | 46.781 | 15.716 | 16.976 | 18.402 | Continuing | Continuing |

Note

Army

Fiscal Year 2012 - Program Increase of \$13.041 million to Project S75 for Nett Warrior transition from 0603827A Soldier Systems Advanced Development to 0604827A Soldier Systems Warrior Demonstation/Validation.

Fiscal Year 2013 - Program Decrease of \$15.374 million to Project S56 for termination of the Mounted Soldier program. Program increase of \$5.054 million to Project S65 for Soldier Power development efforts. Program increase of \$2.168 million to Project S75 for Nett Warrior development efforts.

A. Mission Description and Budget Item Justification

This program element contains three projects: Project S56 for Mounted Soldier System (MSS), Project S65 for Soldier Power and Project S75 for Nett Warrior (NW), [named in honor of Medal of Honor recipient COL Robert Nett], previously known as Ground Soldier System (GSS). 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.

PE 0604827A: Soldier Systems - Warrior Dem/Val

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Page 1 of 24

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army

PE 0604827A: Soldier Systems - Warrior Dem/Val

BA 5: Development & Demonstration (SDD)

| B. Program Change Summary (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 20.886 | 48.309 | 60.003 | - | 60.003 |
| Current President's Budget | 20.122 | 61.350 | 51.851 | - | 51.851 |
| Total Adjustments | -0.764 | 13.041 | -8.152 | - | -8.152 |
| Congressional General Reductions | - | - | | | |
| Congressional Directed Reductions | - | - | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | - | - | | | |
| SBIR/STTR Transfer | -0.620 | - | | | |
| Adjustments to Budget Years | -0.144 | - | - | - | - |
| Other Adjustments 1 | - | 13.041 | -8.152 | - | -8.152 |

| Exhibit R-2A, RDT&E Project Ju | istification: PE | 3 2013 Army | | | | | | | DATE: Feb | ruary 2012 | |
|--|------------------|-------------|---|----------------|---------------------------|----------------------------|-------------|----------------------|-----------|---------------------|------------|
| APPROPRIATION/BUDGET ACT 2040: Research, Development, Te BA 5: Development & Demonstrate | est & Evaluation | n, Army | | | IOMENCLA 7A: Soldier S | TURE Systems - W | arrior Dem/ | PROJECT S56: MOUI | NTED SOLD | IER | |
| COST (\$ in Millions) | , , | | | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| S56: MOUNTED SOLDIER | 20.122 | 22.803 | - | - | - | - | - | - | - | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | |

Note

Army

Program slated for termination December 2012.

A. Mission Description and Budget Item Justification

Mounted Soldier System (MSS) provides an integrated suite of critical mission enhancing capabilities to the combat vehicle crew member and commander to address identified capability gaps in their ability to fight, communicate, and maneuver across the full spectrum of operations. The MSS consists of lightweight, modular, and mission tailorable equipment and Command, Control, Communications and Computer (C4) devices worn, carried, or used by mounted crew members in performance of their missions. Major components include a helmet mounted display mounted on the Combat Vehicle Crewmember Helmet (CVCH), an untethered (wireless) communications system, and a microclimate cooling system. Other integral components include a Mounted Soldier over-garment and cold weather gloves, Chemical/ Biological/Radiological/Nuclear (CBRN) protection, multi-threat eye protection, ballistic protection, flash/flame protection, and individual weapon holsters. The MSS increases mission effectiveness by improving Command and Control and Situational Awareness while increasing crewmember survivability, endurance, and comfort. MSS enables Mounted Crewman to utilize existing platform sensor, situational awareness, and C4 capabilities in and around their platform, therefore increasing combat effectiveness.

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2011 | FY 2012 | FY 2013 |
|---|---------|---------|---------|
| Title: Mounted Soldier System (MSS). | 15.533 | 22.803 | - |
| Articles: | 0 | 0 | |
| Description: Developmental Engineering, Prototyping, Systems Engineering and Program Management Support. | | | |
| FY 2011 Accomplishments: Integrated MSS on M2A2 Operation Desert Storm, Bradley fire support vehicle and M1064 mortar carrier. Conducted developmental testing on M1A2 System Enhancement Program, M2A3 and M3A3 Bradley fighting vehicles. Through a Research, Development, Test and Evaluation Small Business Inovative Research effort, developed prototypes and conducted user evaluation of maxillofacial protection prototype. Conducted compatibility integration of MSS microclimate cooling subsystem with Joint Service Lightweight Integrated Suit Technology (JSLIST) Chemical/Biological Coverall for Combat Vehicle Crewmen protective overgarment. | | | |
| Conduct provisioning activities to assign NSNs and technical documentation to transition MSS Hardware to PEO GCS. | | | |
| FY 2012 Plans: | | | |

PE 0604827A: Soldier Systems - Warrior Dem/Val

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R-1 Line #120

| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJEC | = | 0.50 | |
|--|--|-----------|-----------|---------|---------|
| 2040: Research, Development, Test & Evaluation, Army | PE 0604827A: Soldier Systems - Warrior Dem/ | S56: MO | UNTED SOL | DIER | |
| BA 5: Development & Demonstration (SDD) | Val | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Qua | ntities in Each) | | FY 2011 | FY 2012 | FY 2013 |
| \$17.8M adjustment funded another program. Remaining \$5M will prepared components to PEO GCS and termination. | are program for orderly shutdown, transition of sele | ect | | | |
| Title: Governmental Tests and Evaluation (T&E) Activities | | | 3.942 | = | - |
| | | Articles: | 0 | | |
| Description: Funding is provided for the following efforts: | | | | | |
| FY 2011 Accomplishments: | | | | | |
| Conducted limited user test (LUT) on HBCT and SBCT platforms. | | | | | |
| Conduct limited DT/OT to verify deficiencies identified during the LUT a | are corrected prior to transition to PEO GCS. | | | | |
| Title: Small Business Innovative Research/Small Business Technology | / Transfer Programs | | 0.647 | - | _ |
| | | Articles: | 0 | | |
| | | | | | |

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

Description: Funding is provided for the following efforts:

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army

| | | | FY 2013 | FY 2013 | FY 2013 | | | | | COST 10 | |
|------------------------------|---------|---------|-------------|------------|--------------|---------|---------|---------|---------|-----------------|-------------------|
| <u>Line Item</u> | FY 2011 | FY 2012 | <u>Base</u> | <u>000</u> | <u>Total</u> | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete | Total Cost |
| OPA 3: OPA 3 Mounted Soldier | 38.863 | 5.000 | | | | | | | | 0.000 | 43.863 |

Accomplishments/Planned Programs Subtotals

D. Acquisition Strategy

FY 2011 Accomplishments:

MSS as a Program of record is being terminated. Select components are being transitioned to PEO GCS.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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

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R-1 Line #120

DATE: February 2012

22.803

20.122

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604827A: Soldier Systems - Warrior Dem/ S56: MOUNTED SOLDIER

Val

DATE: February 2012

PROJECT

| Management Services (| nagement Services (\$ in Millions) | | | FY 2 | 2012 | | 2013 ise | | 2013 CO | FY 2013 Total | | | |
|--|------------------------------------|--|------------------------------|------|---------------|------|---------------|------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| PM Soldier Warrior Management/Support of MSS program | MIPR | PM Soldier Warrior;:Ft. Belvoir, VA | 19.215 | - | | - | | - | | - | 0.000 | 19.215 | 0.000 |
| SBIR/SBTTR | TBD | N/A:N/A | 2.000 | - | | - | | - | | - | 0.000 | 2.000 | 0.000 |
| | | Subtotal | 21.215 | - | | - | | - | | - | 0.000 | 21.215 | 0.000 |

| Product Development | | | | FY 2 | 2012 | | 2013 ise | | 2013 CO | FY 2013 Total | | | |
|--|------------------------------|--|------------------------------|--------|---------------|------|---------------|------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Develop and Engineer Mounted Soldier System Wireless Comms | C/FFP | Thales Communications, Inc.:Clarksburg, MD | 4.206 | - | | - | | - | | - | 0.000 | 4.206 | 0.000 |
| Develop and Engineer Mounted Soldier System Microclimate Cooling | C/FFP | Carleton Technologies, Inc.:Orchard Park, NY | 0.826 | - | | - | | - | | - | 0.000 | 0.826 | 0.000 |
| Develop and Engineer Mounted Soldier System Display | C/FFP | Rockwell Collins:Carlsbad, CA | 1.531 | - | | - | | - | | - | 0.000 | 1.531 | 0.000 |
| Develop and Engineer Mounted Soldier System | MIPR | Various:Various | 24.009 | 22.803 | | - | | - | | - | 0.000 | 46.812 | 0.000 |
| | | Subtotal | 30.572 | 22.803 | | - | | - | | - | 0.000 | 53.375 | 0.000 |

| Support (\$ in Millions) | | | | | | | 2013 se | FY 2 | | FY 2013 Total | | | |
|---|------------------------------|---------------------------------------|------------------------------|------|---------------|------|---------------|------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Mounted Soldier Platform Integration | MIPR | PM HBCT, PM SBCT, and others;:Various | 8.584 | - | | - | | - | | - | 0.000 | 8.584 | 0.000 |
| | | Subtotal | 8.584 | - | | - | | - | | - | 0.000 | 8.584 | 0.000 |

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

R-1 ITEM NOMENCLATURE

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0604827A: Soldier Systems - Warrior Dem/ S56: MOUNTED SOLDIER Val

BA 5: Development & Demonstration (SDD)

| Test and Evaluation (\$ i | est and Evaluation (\$ in Millions) | | | FY 2 | 2012 | | 2013 ase | FY 2 | | FY 2013 Total | | | |
|-------------------------------|-------------------------------------|--|------------------------------|------|---------------|------|---------------|------|---------------|------------------|---------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |
| Various Testing Organizations | MIPR | ATEC, TTC/YPG/ DTC/EPG/ARL-SLAD, etc.;:Various | 10.318 | - | | - | | - | | - | 0.000 | 10.318 | 0.000 |
| | | Subtotal | 10.318 | - | | - | | - | | - | 0.000 | 10.318 | 0.000 |
| | | | Total Prior | | | | | | | | | | Target |

| | Total Prior Years Cost | FY 2 | 012 | FY 2013 Base | | 2013 CO | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---------------------|------------------------------|--------|-----|-----------------|---|------------|------------------|---------------------|------------|--------------------------------|
| Project Cost Totals | 70.689 | 22.803 | | - | - | | - | 0.000 | 93.492 | 0.000 |

Remarks

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

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DATE: February 2012 Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army PE 0604827A: Soldier Systems - Warrior Dem/ S56: MOUNTED SOLDIER Val

BA 5: Development & Demonstration (SDD)

| | ΓY | Y 2011 I | | FY 2 | 2012 | 2 | | FY 2 | 2013 | | | FY 2 | 2014 | | | FY 2 | 2015 | , | | FY 2 | 2016 | ; | | FY 2 | 2017 | | |
|---|----|----------|---|------|------|---|---|------|------|---|---|------|------|---|---|------|------|---|---|------|------|---|---|------|------|---|---|
| 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 |

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

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PROJECT

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

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

PATE: February 2012

R-1 ITEM NOMENCLATURE
PE 0604827A: Soldier Systems - Warrior Dem/Val

PE 0604827A: Soldier Systems - Warrior Dem/Val

Schedule Details

| | St | art | End | | |
|----------------------|---------|------|---------|------|--|
| Events | Quarter | Year | Quarter | Year | |
| Termination complete | 1 | 2013 | 1 | 2013 | |

| Exhibit R-2A, RDT&E Project Jus | tification: Pl | 3 2013 Army | ' | | | | | | DATE: Feb | ruary 2012 | | | |
|--|----------------|-------------|-----------------|----------------|--|---------|-------------|----------------------|-----------|---------------------|------------|--|--|
| APPROPRIATION/BUDGET ACTI 2040: Research, Development, Tes BA 5: Development & Demonstration | t & Evaluatio | n, Army | | | I OMENCLA 7A: <i>Soldier S</i> | | arrior Dem/ | PROJECT S65: SOLD | IER POWER | R POWER | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost | | |
| S65: SOLDIER POWER | - | - | 5.054 | - | 5.054 | 9.914 | - | - | - | Continuing | Continuing | | |
| Quantity of RDT&E Articles | | | | | | | | | | | | | |

Note

Army

Not applicable for this item.

A. Mission Description and Budget Item Justification

Individual Soldier Power Systems (SPSs) 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. An advanced, integrated Soldier power system provides the Soldier with a worn power capability that is significantly more efficient and lighter than carrying separate batteries for each device. Soldier Power Systems address the power and energy 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 Radio Command and Control Communications. This effort began as a Congressional plus up for development and system improvements to the M-25 fuel cell and Acid Alkaline (AA) batteries, and continues to develop a line of power sources and solutions suited for not only the individual Soldier, but for the Team and Squad. These power solutions include, but are not limited to individual Soldier worn systems, integrated power vests, wireless power technology, and small unit charger/power supplies; all intended for use in the most austere operating environments. A Portable Power System will equip the Squad with power to the forward edge. Soldier portable power platforms reduce the weight and logistical risk and burden associated with moving fuel and primary (disposable) batteries. It enables Infantry Squads to operate independently for longer durations without being tethered to a large generator, vehicle, or supply train. This effort is in support of the March 2011 Soldier Protection Capability Development Document (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 specified by GEN Allen.

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 |
|---|---------|---------|---------|
| Title: Individual Soldier Power | - | - | 3.404 |
| Description: Funding is provided for the following effort: | | | |
| FY 2013 Plans: Will mature: 1) a safe, high energy, lightweight, Soldier-wearable battery that conforms to the body armor and improved outer tactical vest; and 2) a cabling/wiring solution that is integrated into a textile that is suitable for combat environments and capable of supporting the exchange of power and data. Will develop a Soldier wearable power system that includes a conformal battery, smart textiles, and power management integrated into the existing body armor and improved outer tactical vest. Will mature: 1) an integrated, ergonomic, Soldier worn, bionic energy harvester capable of providing power for Soldier worn power systems; 2) a light weight, high power, Soldier worn fuel cell capable of providing power to all devices worn by the warfighter while reducing | | | |

PE 0604827A: Soldier Systems - Warrior Dem/Val

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Army | | | DATE: February 2012 |
|---|---|-----------|---------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 2040: Research, Development, Test & Evaluation, Army | PE 0604827A: Soldier Systems - Warrior Dem/ | S65: SOLD | IER POWER |
| BA 5: Development & Demonstration (SDD) | Val | | |

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 |
|---|---------|---------|---------|
| the logistics burden; and 3) Soldier carried power management devices that are capable of harvesting remaining energy from any available power sources and manages/distributes worn or carried power. | | | |
| Title: Squad Soldier Power | - | - | 0.968 |
| Description: Funding is provided for the following effort: | | | |
| FY 2013 Plans: Will continue development of Soldier portable, renewable/ replenishable 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 fuels cells and hybridized technology. Will continue development of light weight, Soldier portable chargers capable of supporting the variety of batteries used in the conventional IBCT formation. | | | |
| Title: Soldier Power Test and Evaluation | - | - | 0.682 |
| Description: Funding is provided for the following effort: | | | |
| FY 2013 Plans: Will conduct annual test and evaluation at the Network Integration Evaluation, Ft. Bliss, TX. Will conduct integration testing on power components at the Army Expeditionary Warrior Experiment, Ft. Benning, GA. | | | |
| Accomplishments/Planned Programs Subtotals | _ | _ | 5.054 |

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

N/A

Army

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 (Broad Agency Announcement (BAA) or Request for Proposal (RFP)) depends on the maturity of the technology. The power initiatives will be evaluated through the scheduled Network Integrated Evaluation (NIE) events, and if successful, selected for procuring and subsequent fielding and sustainment.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

PE 0604827A: Soldier Systems - Warrior Dem/Val

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DATE: February 2012 Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0604827A: Soldier Systems - Warrior Dem/ S65: SOLDIER POWER BA 5: Development & Demonstration (SDD) Val **FY 2013** FY 2013 FY 2013 Management Services (\$ in Millions) FY 2012 oco Base Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Date Cost Date Cost Date Complete **Total Cost** Contract & Type Cost Cost MIPR Various:Various 0.386 0.386 Continuina Continuina Continuina PM oversight Subtotal 0.386 0.386 **FY 2013** FY 2013 FY 2013 **Product Development (\$ in Millions)** oco Total FY 2012 Base **Total Prior** Contract Target Value of Method Performing Years Award Award Award Cost To Cost Category Item & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Soldier Power Development **TBD** TBD:TBD 3.552 3.552 Continuing Continuing Continuing 5.648 and Integration Subtotal 5.648 3.552 3.552 FY 2013 FY 2013 FY 2013 Support (\$ in Millions) FY 2012 Base oco Total Contract **Total Prior Target** Value of Method Performing Years Award Award Cost To Award **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract ARL, CERDEC, **MIPR** 0.434 Continuing Martix Support 0.732 0.434 Continuing Continuing Various: Various 0.434 Subtotal 0.732 0.434 **FY 2013** FY 2013 FY 2013 Test and Evaluation (\$ in Millions) oco FY 2012 Base Total **Total Prior** Contract Target Method Years Cost To Value of Performing Award Award Award **Cost Category Item** Cost **Total Cost** & Type **Activity & Location** Cost Cost Date Date Cost Date Cost Complete Contract Various Testing Organizations MIPR Various: Various 0.682 0.682 Continuing Continuing Continuing 0.682 Subtotal 0.682 **Total Prior** Target Value of **FY 2013** FY 2013 FY 2013 Cost To Years Cost FY 2012 oco Total Complete **Total Cost** Contract Base 5.054 5.054 **Project Cost Totals** 6.380

PE 0604827A: Soldier Systems - Warrior Dem/Val

Army

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| | | ry 2012 | |
|------------------|---------------------|-------------------------------|--------------------------------|
| ECT SOLDIER F | POWER | | |
| FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| | | | |
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| | OLDIER I | OLDIER POWER FY 2013 Cost To | OLDIER POWER FY 2013 Cost To |

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

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY
2040: Research, Development, Test & Evaluation, Army
BA 5: Development & Demonstration (SDD)

DATE: February 2012

R-1 ITEM NOMENCLATURE
PE 0604827A: Soldier Systems - Warrior Dem/Val

S65: SOLDIER POWER

| | | FY 2011 | | | FY | 20 | 12 | | FY 2013 FY 2014 FY 2015 | | | FY 2016 | | | FY 2017 | | | 7 | | | | | | | | | | |
|---|---|---------|---|---|----|-----------|-----|-----|-------------------------|---|---|---------|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 2 (| 3 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Soldier Power Field Evaluation/Feedback | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 (NIE 14.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squad Soldier Power Evaluation (NIE 4.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Schedule Details

| | St | Start | | nd |
|---|---------|-------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| Soldier Power Field Evaluation/Feedback | 3 | 2011 | 4 | 2012 |
| 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 (NIE 14.2) | 2 | 2014 | 3 | 2014 |
| Squad Soldier Power Evaluation (NIE 4.2) | 2 | 2014 | 3 | 2014 |

| Exhibit R-2A, RDT&E Project Jus | tification: Pl | 3 2013 Army | • | | | | | | DATE: Febr | ruary 2012 | | |
|---|----------------|-------------|-----------------|----------------|--|---------|-------------|----------------------|-------------------------------|------------------|------------|--|
| APPROPRIATION/BUDGET ACTIV 2040: Research, Development, Tes BA 5: Development & Demonstration | t & Evaluatio | n, Army | | | I OMENCLA 7A: <i>Soldier S</i> | | arrior Dem/ | PROJECT S75: GROU | ECT ROUND SOLDIER ENSEMBLE | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost | |
| S75: GROUND SOLDIER ENSEMBLE | - | 38.547 | 46.797 | - | 46.797 | 46.781 | 15.716 | 16.976 | 18.402 | Continuing | Continuing | |
| Quantity of RDT&E Articles | | | | | | | | | | | | |

Note

Army

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 COL Robert Nett], previously known as Ground Soldier System (GSS) program, leverages commercial smart devices to provide an integrated dismounted leader Mission Command (MC) and Situational Awareness (SA) system for use during combat operations. The system 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 information making them more effective, more lethal, and more survivable in the execution of their combat mission. The NW program focuses on the integration and evaluation of commercial smart devices for the MC/SA system, improved navigation, and reduced fratricide through the visualization of friendly forces. The development and integration process employs combat veteran for Soldier integration and feedback enhancing the human factors and fightability. NW also develops supporting power systems aimed at achieving NET ZERO power balance in the expeditionary environment. This project funds the following: 1) the yearly developmental and operational test of the NW with continually advancing commercial smart device technology inserted, (2) the software development for planned updates, 3) integration with Joint Tactical Radio System (JTRS), including vehicle power integration, 4) and government led integration and system engineering and program management. Note this is the continuation of work performed in Program Element (PE) 0603827A/S49.

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| Title: Test and Evaluation and Network Integration Evaluation (NIE) | - | 11.676 | 14.174 |
| Articles: | | 0 | |
| Description: Funding is provided for the following effort | | | |
| FY 2012 Plans: Conduct Nett Warrior (NW) test and evaluation to include semi-annual operational assessments at Network Integration Exercise (NIE) events at Ft. Bliss, TX., supporting objective of full Army network integration from dismounted Soldier level. Conduct component and system, and operational level developmental testing to support production decision of NW. | | | |
| FY 2013 Plans: Will conduct NW test and evaluation for technical verification at developmental events and user verification through operational testing at semi-annual NIE events. Test events will include: Brigade level support, equipping, training, test costs, and spares for | | | |

PE 0604827A: Soldier Systems - Warrior Dem/Val

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Army | | | DATE : Fe | bruary 2012 | |
|--|--|------------------|------------------|-------------|---------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJEC | | | |
| 2040: Research, Development, Test & Evaluation, Army | PE 0604827A: Soldier Systems - Warrior Dem/ | S75: <i>GR</i> 0 | DUND SOLD | IER ENSEME | BLE |
| BA 5: Development & Demonstration (SDD) | Val | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article | • | | FY 2011 | FY 2012 | FY 2013 |
| NW Initial Operational Test; Evaluation at NIE to support a full ra airborne; air-worthiness; Army Interoperability Certification; envir Assurance penetration prevention testing. | | | | | |
| Title: Hardware and Software for Integration and Evaluation | | Articles: | - | 14.789 0 | 17.95 |
| Description: Funding is provided for the following effort | | | | | |
| FY 2012 Plans: Acquire, integrate and evaluate Brigade sized quantities of commintegration into the NW system of proven and mature capability combat applications. This allows NW to keep pace with emerging yearly Army Capability Set insertion. | during the semi-annual NIE events. Integrate 3rd party so | oftware | | | |
| FY 2013 Plans: Will continue to acquire, integrate and evaluate Brigade sized que for potential integration into the NW system of proven and mature party software combat applications. This allows NW to keep pace process as to yearly Army Capability Set insertion. | e capability during the semi-annual NIE events. Will integ | grate 3rd | | | |
| Title: Software Development | | Articles: | - | 5.253 0 | 6.37 |
| Description: Funding is provided for the following effort | | | | | |
| FY 2012 Plans: Develop and integrate software based on the Army's Joint Battle smart device hardware for potential integration into the NW syste semi-annual basis. Maintain software updates and changes for maintain information assurance accreditation, and retain interoper | em to provide the most current capability into production on NW program to keep pace with Army software blocking u | on a | | | |
| FY 2013 Plans: Will continue to develop software based on the Army's Joint Batt | le Command Platform software development kit for comnem to provide the most current capability into production o | | | | |

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

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Army | | | DATE: Fe | bruary 2012 | |
|--|---|------------------|-----------|-------------|---------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJEC | | | |
| 2040: Research, Development, Test & Evaluation, Army | PE 0604827A: Soldier Systems - Warrior Dem/ | S75: <i>GR</i> 0 | DUND SOLD | IER ENSEME | BLE |
| BA 5: Development & Demonstration (SDD) | Val | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article | e Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 |
| semi-annual basis. Will maintain software updates and changes | | ng | | | |
| updates, maintain information assurance accreditation, and retain | | | | | |
| Title: Integration with Joint Tactical Radio System (JTRS) and Int | terface, Vehicle Power and Integration | | - | 4.800 | 5.828 |
| | | Articles: | | 0 | |
| Description: Funding is provided for the following effort | | | | | |
| | | | | | |
| FY 2012 Plans: | siste NIM avatam. Davalan avatara nawar rasharaina aa | Jutiona | | | |
| Integrate JTRS Rifleman Radio running Soldier Radio Wave form and integrate power recharging systems for Infantry, Stryker and | | | | | |
| and verification of 4 types of vehicle integration kits to support NV | | it, testing | | | |
| | varia trio radio battorios. | | | | |
| FY 2013 Plans: Will integrate and verify modified JTRS Rifleman Radio running S | Coldier Radio Ways form and gross demain guards into N | 1\A/ | | | |
| system. Will continue to develop austere power recharging solut | | | | | |
| and Heavy Brigade Combat Team vehicles with development, tes | | | | | |
| support NW and the radio batteries. | sang and vermeation of the people of vermele integration tale | | | | |
| Title: Conduct Systems Engineering and Program Management | Support to Nett Warrior | | _ | 2.029 | 2.464 |
| | | Articles: | | 0 | |
| Description: Funding is provided for the following effort | | | | | |
| EV 0040 Blanca | | | | | |
| FY 2012 Plans: Conduct government systems engineering, assessment and programming and programming assessment and programming asse | eram management augnort for NIM program. Integrate of | volvina | | | |
| commercial smart devices and technology for test and evaluation | | volving | | | |
| to improve NW size, weight, power, fightability, safety and effective | | | | | |
| Developmental and Operational Testing events. Conduct survey | | pability at | | | |
| Developmental and Operational testing at NIE at Ft. Bliss to impr | | | | | |
| FY 2013 Plans: | | | | | |
| Will continue to conduct government systems engineering, asses | sment and program management support for NW progra | am. | | | |
| Will integrate evolving commercial smart devices, software applic | | | | | |
| from Soldiers at semi-annual NIE events to improve NW size, we | | | | | |
| | | · | | | |
| | | | | | |
| | | | | | |

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

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Army | | | DATE: February 2012 |
|---|---|-----------|----------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 2040: Research, Development, Test & Evaluation, Army | PE 0604827A: Soldier Systems - Warrior Dem/ | S75: GROL | IND SOLDIER ENSEMBLE |
| BA 5: Development & Demonstration (SDD) | Val | | |

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| and electronic data monitoring from Developmental and Operational Testing (DT/OT) events. Will conduct surveys and technical analysis of austere power generation capability at DT/OT at NIE at Ft. Bliss to improve power generation process. | | | |
| Accomplishments/Planned Programs Subtotals | - | 38.547 | 46.797 |

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

| | | | FY 2013 | FY 2013 | FY 2013 | | | | | Cost To | |
|--|---------|---------|-------------|---------|--------------|---------|---------|---------|---------|------------|-------------------|
| <u>Line Item</u> | FY 2011 | FY 2012 | Base | OCO | <u>Total</u> | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete | Total Cost |
| • OPA 3, R80501: <i>OPA 3, R80501,</i> | 1.685 | 63.500 | 103.317 | | 103.317 | | 200.855 | 203.547 | 225.251 | Continuing | Continuing |
| Ground Soldier System | | | | | | | | | | _ | |
| • RDT&E, PE 0603827A S49: | 34.819 | 0.020 | | | | | | | | 0.000 | 34.839 |
| DDT0E DE 06030374 C40 | | | | | | | | | | | |

RDT&E, PE 0603827A S49 - Ground Soldier System (GSS)

D. Acquisition Strategy

The Nett Warrior (NW) program provides unparalleled situational awareness and battle command to dismounted combat leaders through an integrated computer, display, 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. The NW MS C is executed in 2QFY12 followed by a low rate Capability Set (CS) 14 production award. Conduct Developmental Test and Evaluation planned for 4QFY12-1QFY13, followed by 1QFY13 Initial Operational Test & Evaluation (IOT&E) as well as hardware, software, integration and program management. The Developmental and Operational tests are validation of the system utility, supportability, and austere-environment power production and regeneration strategy-leading to a production decision in the 2QFY13 to procure the CS14 quantity of NW systems and support. NW also continues to reduce size, weight and power through a semi-annual integration and evaluation and test of commercial smart device technologies which evolve continuously.

E. Performance Metrics

Army

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

PE 0604827A: Soldier Systems - Warrior Dem/Val

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DATE: February 2012 Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0604827A: Soldier Systems - Warrior Dem/ S75: GROUND SOLDIER ENSEMBLE BA 5: Development & Demonstration (SDD) Val FY 2013 FY 2013 FY 2013 Management Services (\$ in Millions) FY 2012 oco Base Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of **Activity & Location Cost Category Item** & Type Cost Cost Date Cost Date Cost Date Complete **Total Cost** Contract Cost PM Soldier Warrior hardware and software integration and **MIPR** Various:Various 14.789 17.954 Continuing Continuing 17.954 Continuing evaluation PM Soldier Warrior Systems Engineering and program Various Various: Various 2.029 2 464 2.464 Continuina Continuina Continuina management support Subtotal 16.818 20.418 20.418 FY 2013 FY 2013 FY 2013 **Product Development (\$ in Millions)** FY 2012 Base oco Total Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Cost Date Cost Date Cost Date **Total Cost** Contract & Type Cost Complete JTRS integration and Continuing interface, vehicle power **MIPR** Various:Various 4.800 5.828 5.828 Continuing Continuing integration Subtotal 4.800 5.828 5.828 FY 2013 FY 2013 **FY 2013** Support (\$ in Millions) oco FY 2012 Base Total **Total Prior** Contract Target Method Performing Years Award Award Award **Cost To** Value of **Total Cost Cost Category Item Activity & Location** Cost Date Cost Cost Contract & Type Cost Date Date Cost Complete Software development **MIPR** Various Various 5 253 6.377 6 377 Continuing Continuina Continuing 5.253 Subtotal 6.377 6.377 **FY 2013** FY 2013 FY 2013 Test and Evaluation (\$ in Millions) FY 2012 Base oco Total **Total Prior** Contract Target Method Performing Years Award Award **Cost To** Value of Award Cost Category Item & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Various Testing Organizations MIPR 11.676 14.174 Various: Various 14.174 Continuing Continuina Continuing Subtotal 11.676 14.174 14.174

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

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 A | rmy | | | | D | ATE: Februar | ry 2012 | |
|--|-------------|--|-----------------------------------|--------------|-----------------------|--------------|----------|--------|
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD) | | | MENCLATURE : Soldier Systems - | Warrior Dem/ | PROJECT S75: GROUN | D SOLDIER E | ENSEMBLE | Ē |
| | Total Prior | | EV 2013 | FV 201 | 3 FV 201 | 3 Cost To | | Target |

| | Total Prior Years Cost | FY 2 | FY 20 012 Bas | | | Cost To | Total Cost | Target Value of Contract |
|---------------------|------------------------------|--------|------------------|---|--------|---------|------------|--------------------------------|
| Project Cost Totals | - | 38.547 | 46.797 | - | 46.797 | - | | |

Remarks

DATE: February 2012 Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army PROJECT

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/ S75: GROUND SOLDIER ENSEMBLE

Val

| | | FΥ | 201 1 | | | FΥ | 2012 | 2 | | FY 2 | 2013 | | | FY 2 | 2014 | | | FY 2 | 201 | 5 | | FY | 2016 | 3 | | FY | 2017 | 7 |
|---|---|----|--------------|---|---|----|------|---|---|------|------|---|---|------|------|---|---|------|-----|---|---|----|------|---|---|----|------|---|
| | 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 |
| Army Configuration Steering Board (CSB) | | | , | | | | , | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 12.1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW Milestone C Decision | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Rate Initial Production (LRIP) Contract Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW Low Rate Initial Production (LRIP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 12.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW Developmental Test (DT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial Operational Test and Evaluation (IOTE)/ NIE 13.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW First Unit Equipment (FUE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW Initial Operating Capability (IOC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 13.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS14 Contract Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS14 Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS14 Fielding | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 14.1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 14.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS15 Contract Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS15 Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS15 Fielding | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 15.1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Integration Evaluation (NIE 15.2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS16 Contract Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS16 Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4, RDT&E Schedule Profile: PB 2013 | Army | , | | | | | | | | | | | | | | | | | | | D | ATE: | : Fel | brua | ry 20 | 012 | | |
|---|-------|----|-----|---|---|----|------|---|---|----|-----|---|---|--------|-------|------|-----|------|------|------------|---|------|-------|------|-------|-----|-----|---|
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, BA 5: Development & Demonstration (SDD) | . Arm | у | | | | | | | | | | | | ıs - V | Varri | or D | em/ | | | ECT GRO | |) SC | DLDI | IER | ENS | SEM | BLE | |
| | | FY | 201 | 1 | | FY | 2012 | 2 | | FY | 201 | 3 | | FY | 2014 | ļ | | FY 2 | 2015 | 5 | | FY: | 2016 | 6 | | FY | 201 | 7 |
| | 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 |
| CS16 Fielding | | | | • | | • | | | | | | • | | | | | | | | | | | | | Ī | | | |
| Network Integration Evaluation (NIE 16.1) | | | | | | | | | | | | | | | | | | | | | | I | | | | | | |
| Network Integration Evaluation (NIE 16.2) | | | | | | | | | | | | | | | | | | | | | | | | I | | | | |
| CS17 Contract Award | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| CS17 Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS17 Fielding | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army
BA 5: Development & Demonstration (SDD)
PE 0604827A: Soldier Systems - Warrior Dem/ S75: GROUND SOLDIER ENSEMBLE Val

Schedule Details

| | Sta | End | | | | | |
|---|---------|------|---------|------|--|--|--|
| Events | Quarter | Year | Quarter | Year | | | |
| Army Configuration Steering Board (CSB) | 4 | 2011 | 4 | 2011 | | | |
| Network Integration Evaluation (NIE 12.1) | 1 | 2012 | 1 | 2012 | | | |
| NW Milestone C Decision | 2 | 2012 | 2 | 2012 | | | |
| Low Rate Initial Production (LRIP) Contract Award | 3 | 2012 | 3 | 2012 | | | |
| NW Low Rate Initial Production (LRIP) | 3 | 2012 | 2 | 2013 | | | |
| Network Integration Evaluation (NIE 12.2) | 3 | 2012 | 3 | 2012 | | | |
| NW Developmental Test (DT) | 4 | 2012 | 1 | 2013 | | | |
| Initial Operational Test and Evaluation (IOTE)/NIE 13.1 | 1 | 2013 | 1 | 2013 | | | |
| NW First Unit Equipment (FUE) | 2 | 2013 | 2 | 2013 | | | |
| NW Initial Operating Capability (IOC) | 2 | 2013 | 2 | 2013 | | | |
| Network Integration Evaluation (NIE 13.2) | 3 | 2013 | 3 | 2013 | | | |
| CS14 Contract Award | 3 | 2013 | 3 | 2013 | | | |
| CS14 Production | 3 | 2013 | 2 | 2014 | | | |
| CS14 Fielding | 4 | 2013 | 4 | 2014 | | | |
| Network Integration Evaluation (NIE 14.1) | 1 | 2014 | 1 | 2014 | | | |
| Network Integration Evaluation (NIE 14.2) | 3 | 2014 | 3 | 2014 | | | |
| CS15 Contract Award | 3 | 2014 | 3 | 2014 | | | |
| CS15 Production | 3 | 2014 | 2 | 2015 | | | |
| CS15 Fielding | 4 | 2014 | 4 | 2015 | | | |
| Network Integration Evaluation (NIE 15.1) | 1 | 2015 | 1 | 2015 | | | |
| Network Integration Evaluation (NIE 15.2) | 3 | 2015 | 3 | 2015 | | | |
| CS16 Contract Award | 3 | 2015 | 3 | 2015 | | | |

DATE: February 2012 Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0604827A: Soldier Systems - Warrior Dem/ S75: GROUND SOLDIER ENSEMBLE Val

BA 5: Development & Demonstration (SDD)

| | Sta | art | E | nd |
|---|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| CS16 Production | 3 | 2015 | 2 | 2016 |
| CS16 Fielding | 4 | 2015 | 4 | 2016 |
| Network Integration Evaluation (NIE 16.1) | 1 | 2016 | 1 | 2016 |
| Network Integration Evaluation (NIE 16.2) | 3 | 2016 | 3 | 2016 |
| CS17 Contract Award | 3 | 2016 | 3 | 2016 |
| CS17 Production | 3 | 2016 | 2 | 2017 |
| CS17 Fielding | 4 | 2016 | 4 | 2017 |