| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army | | | | | | | | | | | DATE: April 2013 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | | | | | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | | | | | | | |
| **COST ($ in Millions)** | **All Prior Years** | **FY 2012** | **FY 2013#** | **FY 2014 Base** | **FY 2014 OCO ##** | **FY 2014 Total** | **FY 2015** | **FY 2016** | **FY 2017** | **FY 2018** | **Cost To Complete** | **Total Cost** |
| Total Program Element | - | 3.914 | 4.232 | 3.465 | - | 3.465 | 4.204 | 5.137 | 4.570 | 4.570 | Continuing | Continuing |
| RH5: *TROJAN - RH12 - MIP* | - | 3.914 | 4.232 | 3.465 | - | 3.465 | 4.204 | 5.137 | 4.570 | 4.570 | Continuing | Continuing |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## The FY 2014 OCO Request will be submitted at a later date

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

This project is a Military Intelligence Program (MIP). Trojan research and development supports Trojan Classic XXI (TCXXI) and next generation (NexGEN) future capabilities to fulfill the Army's need for a worldwide, deployable, remotable, intelligence, surveillance and reconnaissance support that can dynamically execute operations from sanctuary-based to deployed assets in theater. In support of Army Modernization and Army Force Generation, TCXXI TROJAN NexGen and TROJAN SWARM will provide soldiers with a real-world, hands-on, live and near-real time SIGINT training environment sustaining, maintaining and enhancing their military occupational specialty proficiencies and specific target expertise. This operational readiness training will fulfill the Army's larger intelligence training requirement via a secure, collaborative architecture.

A key factor for future force success is the ability to collect, process and use information about an adversary while preventing similar information from being disclosed. Trojan is a combined operational and readiness mission system which uses advanced networking technology to provide seamless rapid radio relay, secure communications to include voice, data, facsimile, and electronic reconnaissance support to U.S. forces throughout the world. Trojan operations may be easily tailored to fit military intelligence unit training schedules and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting systems. This project engineers, tests and evaluates new digital intelligence collection, processing and dissemination technology using the fielded Trojan systems, prior to the acquisition of those technologies. As part of the objective intelligence architecture, these capabilities will enable processing and dissemination of real-time intelligence data from various sources to form the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative that Trojan keeps pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threats.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army | | | | | DATE: April 2013 |
|---|---|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | | | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | | |
| **B. Program Change Summary ($ in Millions)** | **FY 2012** | **FY 2013** | **FY 2014 Base** | **FY 2014 OCO** | **FY 2014 Total** |
| Previous President's Budget | 3.916 | 4.232 | 4.386 | - | 4.386 |
| Current President's Budget | 3.914 | 4.232 | 3.465 | - | 3.465 |
| Total Adjustments | -0.002 | 0.000 | -0.921 | - | -0.921 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Adjustments to Budget Years | -0.002 | - | -0.921 | - | -0.921 |

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Army | | | DATE: April 2013 |
|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* | |

| COST ($ in Millions) | All Prior Years | FY 2012 | FY 2013# | FY 2014 Base | FY 2014 OCO ## | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH5: *TROJAN - RH12 - MIP* | - | 3.914 | 4.232 | 3.465 | - | 3.465 | 4.204 | 5.137 | 4.570 | 4.570 | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | | |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## The FY 2014 OCO Request will be submitted at a later date

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

This project is a Military Intelligence Program (MIP). TROJAN research and development supports TROJAN Classic XXI (TCXXI) and Next Generation (NexGEN) future capabilities to fulfill the Army's need for a worldwide, deployable, remotable, intelligence, surveillance and reconnaissance support that can dynamically execute operations from sanctuary-based to deployed assets in theater. In support of Army Modernization and Army Force Generation, TCXXI TROJAN NexGEN and TROJAN SWARM will provide soldiers with a real-world, hands-on, live and near-real time SIGINT training environment sustaining, maintaining and enhancing their military occupational specialty proficiencies and specific target expertise. This operational readiness training will fulfill the Army's larger intelligence training requirement via a secure, collaborative architecture.

A key factor for future force success is the ability to collect, process and use information about an adversary while preventing similar information from being disclosed. Trojan is a combined operational and readiness mission system which uses advanced networking technology to provide seamless rapid radio relay, secure communications to include voice, data, facsimile, and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting systems. This project engineers, tests and evaluates new digital intelligence collection, processing and dissemination technology using the fielded TROJAN systems, prior to the acquisition of those technologies. As part of the objective intelligence architecture, these capabilities will enable processing and dissemination of real-time intelligence data from various sources to form the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative that TROJAN keeps pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threats.

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2012 | FY 2013 | FY 2014 |
|---|---|---|---|
| ***Title:*** Integrate and test specialized hardware/software | 0.410 | 0.862 | 0.705 |
| ***Articles:*** | 0 | 0 | |
| ***Description:*** Integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms. Resource development of GL Application Interface for Virtual Environments (GLAIVE) software. Integrated several new National Security Agency (NSA) SW packages. | | | |
| ***FY 2012 Accomplishments:*** | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2012 | FY 2013 | FY 2014 |
|---|---|---|---|
| Integrated and tested specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms. Resource development of GLAIVE software. Integrated several new NSA SW packages.<br>***FY 2013 Plans:***<br>Integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms. Resource development of GLAIVE software. Integrated several new NSA SW packages.<br>***FY 2014 Plans:***<br>Will integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms; resource development of GLAIVE software and integrated several new NSA SW efforts still ongoing. Will develop TROJAN SWARM Intelligence Surveillance Reconnaissance enterprise. | | | |
| ***Title:*** Multi-bandwidth compression algorithms<br>***Articles:***<br>***Description:*** Acquire and apply multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput.<br>***FY 2012 Accomplishments:***<br>Acquired and applied multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput.<br>***FY 2013 Plans:***<br>Acquire and apply multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput.<br>***FY 2014 Plans:***<br>Will acquire and apply multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput, as well as new technologies that address Video Encoder/Decoder system improvements. | 0.358<br>0 | 0.375<br>0 | 0.307 |
| ***Title:*** Develop prototype quick reaction capability receiver<br>***Articles:***<br>***Description:*** Develop prototype quick reaction capability receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using Digital System Processing (DSP) and Field Programmable Gate Arrays (FPGAs) technologies.<br>***FY 2012 Accomplishments:*** | 0.400<br>0 | 0.300<br>0 | 0.245 |

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2012 | FY 2013 | FY 2014 |
|---|---|---|---|
| Developed prototype quick reaction capability receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using DSP and FPGAs.<br>***FY 2013 Plans:***<br>Develop prototype quick reaction capability receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using DSP and FPGAs.<br>***FY 2014 Plans:***<br>Will continue development of prototype quick reaction capability receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using DSP and FPGAs. | | | |
| ***Title:*** Integrate Direction Finding<br>***Articles:***<br>***Description:*** Integrate Direction Finding (DF) and geolocation technologies into Trojan Remote Receiving Groups.<br>***FY 2012 Accomplishments:***<br>Integrated Direction Finding (DF) and geolocation technologies into TROJAN Remote Receiving Groups.<br>***FY 2013 Plans:***<br>Integrate Direction Finding (DF) and geolocation technologies into TROJAN Remote Receiving Groups.<br>***FY 2014 Plans:***<br>Will integrate Direction Finding (DF) and geolocation technologies into Trojan Remote Receiving Groups to include a High Frequency Direction Finding (HFDF) Extension Node 2 and a Wideband graphical user interface (GUI). | 0.390<br>0 | 0.950<br>0 | 0.778 |
| ***Title:*** Develop hardware/software interface<br>***Articles:***<br>***Description:*** Develop hardware/software interface for TCXXI system and NexGEN to ONEROOF storage system<br>***FY 2012 Accomplishments:***<br>Completed development of hardware/software interface for TCXXI system and NexGEN to ONEROOF storage system | 0.445<br>0 | 0.000 | 0.000 |
| ***Title:*** Develop specialized software enhancements to the Trojan<br>***Articles:***<br>***Description:*** Develop specialized software enhancements to the Trojan audio streaming subsystems to improve system redundancy and throughput capacity and system management capabilities; Investigate compression/processing technologies to reduce communications bandwidth requirements for remoted TROJAN systems, including streaming audio technologies. | 0.285<br>0 | 0.300<br>0 | 0.246 |

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2012 | FY 2013 | FY 2014 |
|---|---|---|---|
| ***FY 2012 Accomplishments:***<br>Developed specialized software enhancements to the TROJAN audio streaming subsystems to improve system redundancy and throughput capacity and system management capabilities; Investigate compression/processing technologies to reduce communications bandwidth requirements for remoted TROJAN systems, including streaming audio technologies.<br>***FY 2013 Plans:***<br>Develop specialized software enhancements to the TROJAN audio streaming subsystems to improve system redundancy and throughput capacity and system management capabilities; Investigate compression/processing technologies to reduce communications bandwidth requirements for remoted TROJAN systems, including streaming audio technologies.<br>***FY 2014 Plans:***<br>Will continue development of specialized software enhancements to the TROJAN audio streaming subsystems to improve system redundancy and throughput capacity and system management capabilities; will investigate compression/processing technologies to reduce communications bandwidth requirements for remoted TROJAN systems, including streaming audio technologies. | | | |
| ***Title:*** Development of Satellite Communication (SATCOM) dishes and receivers | 0.780 | 0.500 | 0.409 |
| ***Articles:*** | 0 | 0 | |
| ***Description:*** Development of smaller more mobile Satellite Communication (SATCOM) dishes and receivers. Development of more efficient use of bandwidth, communications on the move and man-packable intelligence collection systems.<br>***FY 2012 Accomplishments:***<br>Developed smaller more mobile SATCOM dishes and receivers. Develop more efficient use of bandwidth, communications on the move and man-packable intelligence collection systems.<br>***FY 2013 Plans:***<br>Develop smaller more mobile SATCOM dishes and receivers. Develop more efficient use of bandwidth, communications on the move and man-packable intelligence collection systems.<br>***FY 2014 Plans:***<br>Will continue development of smaller more mobile SATCOM dishes and receivers and the development of more efficient use of bandwidth, communications on the move and man-packable intelligence collection systems; Super Quick Deploy SATCOM terminals that auto-acquire the spacecraft; and a Back-pack SATCOM system. | | | |
| ***Title:*** Labor cost software (SW) engineers | 0.846 | 0.945 | 0.775 |
| ***Articles:*** | 0 | 0 | |

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2012 | FY 2013 | FY 2014 |
|---|---|---|---|
| ***Description:*** Labor for two software (SW) engineers at NSA in support of GLAIVE and other above applicable efforts. Labor for one Material Developer (MAT DEV) technologist, one MAT DEV software and one MAT DEV Hardware (HW) engineer.<br><br>***FY 2012 Accomplishments:***<br>Labor for two SW engineers at NSA in support of GLAIVE and other above applicable efforts. Labor for one MAT DEV technologist, one MAT DEV software and one MAT DEV HW engineer.<br><br>***FY 2013 Plans:***<br>Labor for two SW engineers at NSA in support of GLAIVE and other above applicable efforts. Labor for one MAT DEV technologist, one MAT DEV software and one MAT DEV HW engineer.<br><br>***FY 2014 Plans:***<br>Continued labor for two SW engineers at NSA in support of GLAIVE and other above applicable efforts. Continued labor for one MAT DEV technologist, one MAT DEV software and one MAT DEV HW engineer. | | | |
| **Accomplishments/Planned Programs Subtotals** | 3.914 | 4.232 | 3.465 |

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

| Line Item | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • BA0326: *TROJAN (MIP)* | 93.807 | 21.483 | 24.598 | | 24.598 | 17.506 | 12.520 | 14.710 | 14.716 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

This Acquisition Strategy for the TROJAN Classic XXI and TROJAN NexGEN Systems supported by TROJAN RDT&E is to adapt and leverage from Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) products. Additionally leverage off of development by DoD and other Government agencies to the greatest extent possible. TROJAN RDT&E is used to fund the development of enhancing these technologies to meet specific user requirements. The funding for production and fielding of these capabilities are funded under TROJAN BA0331.

**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.

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army | | | DATE: April 2013 |
|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* | |

**Management Services ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | FY 2012 Cost | FY 2012 Award Date | FY 2013 Cost | FY 2013 Award Date | FY 2014 Base Cost | FY 2014 Base Award Date | FY 2014 OCO Cost | FY 2014 OCO Award Date | FY 2014 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Labor Costs Software (SW) Engineers | Various | NSA:MD | 0.000 | 0.844 | Jun 2012 | 0.945 | Jun 2013 | 0.775 | Jun 2014 | - | | 0.775 | 0.000 | 2.564 | 0.000 |
| | | **Subtotal** | 0.000 | 0.844 | | 0.945 | | 0.775 | | 0.000 | | 0.775 | 0.000 | 2.564 | 0.000 |

**Product Development ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | FY 2012 Cost | FY 2012 Award Date | FY 2013 Cost | FY 2013 Award Date | FY 2014 Base Cost | FY 2014 Base Award Date | FY 2014 OCO Cost | FY 2014 OCO Award Date | FY 2014 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multi-Band Compression Algorithms | Various | APG:MD | 0.000 | 0.358 | Jun 2012 | 0.375 | Jun 2013 | 0.307 | Jun 2014 | - | | 0.307 | Continuing | Continuing | 0.000 |
| Develop Prototype Quick Reaction Capability Receiver | Various | APG:MD | 0.000 | 0.400 | Jun 2012 | 0.300 | Jun 2013 | 0.245 | Jun 2014 | - | | 0.245 | Continuing | Continuing | 0.000 |
| Integrate Direction Finding | Various | APG:MD | 0.000 | 0.390 | Jun 2012 | 0.950 | Jun 2013 | 0.778 | Jun 2014 | - | | 0.778 | Continuing | Continuing | 0.000 |
| Specialized Software Enhancements | Various | APG:MD | 0.000 | 0.285 | Jun 2012 | 0.300 | Jun 2013 | 0.246 | Jun 2014 | - | | 0.246 | Continuing | Continuing | 0.000 |
| Develop Satellite Communications (SATCOM) Dishes and Receivers | Various | APG:MD | 0.000 | 0.780 | Jun 2012 | 0.500 | Jun 2013 | 0.409 | Jun 2014 | - | | 0.409 | Continuing | Continuing | 0.000 |
| Develop Hardware/ Software Interface | Various | APG:MD | 0.000 | 0.445 | Jun 2012 | - | | - | | - | | - | 0.000 | 0.445 | 0.000 |
| | | **Subtotal** | 0.000 | 2.658 | | 2.425 | | 1.985 | | 0.000 | | 1.985 | | | 0.000 |

**Test and Evaluation ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | FY 2012 Cost | FY 2012 Award Date | FY 2013 Cost | FY 2013 Award Date | FY 2014 Base Cost | FY 2014 Base Award Date | FY 2014 OCO Cost | FY 2014 OCO Award Date | FY 2014 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Integration and Testing of Hardware/Software | Various | APG:MD | 0.000 | 0.412 | Jun 2012 | 0.862 | Jun 2013 | 0.705 | Jun 2014 | - | | 0.705 | 0.000 | 1.979 | 0.000 |
| | | **Subtotal** | 0.000 | 0.412 | | 0.862 | | 0.705 | | 0.000 | | 0.705 | 0.000 | 1.979 | 0.000 |

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army | | | DATE: April 2013 |
|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* | |

| | All Prior Years | FY 2012 | | FY 2013 | | FY 2014 Base | | FY 2014 OCO | | FY 2014 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Project Cost Totals** | 0.000 | 3.914 | | 4.232 | | 3.465 | | 0.000 | | 3.465 | | | 0.000 |

**Remarks**

| Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

| | FY 2012 | | | | FY 2013 | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Hardware, Software and Systems Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army | | DATE: April 2013 |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>2040: *Research, Development, Test & Evaluation, Army*<br>BA 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE<br>PE 0303032A: *TROJAN - RH12 - MIP* | PROJECT<br>RH5: *TROJAN - RH12 - MIP* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| Hardware, Software and Systems Development | 1 | 2014 | 4 | 2015 |