Exhibit R-2, **RDT&E Budget Item Justification:** PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational

PE 0607865A I Patriot Product Improvement

Systems Development

| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
|-------------------------------------|----------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| Total Program Element | - | 33.935 | 57.962 | 105.816 | - | 105.816 | 131.365 | 167.013 | 129.318 | 115.517 | Continuing | Continuing |
| DV8: Patriot Product Improvement | - | 33.935 | 57.962 | 105.816 | - | 105.816 | 131.365 | 167.013 | 129.318 | 115.517 | Continuing | Continuing |

Note

FY15 Congressional reduction; program increase only for counter-EA improvements

FY16 Across the board reductions to the planned efforts.

A. Mission Description and Budget Item Justification

PATRIOT is an advanced Surface-to-Air guided missile system with a high probability of kill, capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by U.S. Forces. The PATRIOT Product Improvement Program provides for the upgrade of the PATRIOT System through individual material changes and upgrades to the PATRIOT system to address operational lessons learned, enhancements to joint force interoperability, and other system performance improvements to provide overmatch capability with the emerging threat. Efforts will be made to expedite PATRIOT material solutions (e.g. Radar Digital Processor, Communications Upgrades, address Tactical Ballistic Missile (TBM) capability, Combat ID, and Advanced ECM improvements) to both enhance capability and facilitate integration into the Integrated Air and Missile Defense (IAMD) architecture. Near term efforts are modifications and FY15 initiates competitive modernization through development of the Lower Tier Air & Missile Defense-Capability (LTAMD-C).

The software funding provides improvements to the PATRIOT system against the evolving threat. This effort supports work with national agencies to evaluate, assess, and develop means to mitigate threat trends and specific threat developments potentially impacting system performance, and prioritize the improvements in the overall development cycle. Specific improvements may be developed and fielded under this task if warranted. The effort maintains the Mission Tailoring Database, responding to immediate tactical concerns; Database updates are fielded between major software upgrades as necessary.

FY2016 base dollars continue Software Improvement for Threat Evolution, Upper Tier Debris Mitigation (UTDM), Radar Digital Processor (RDP) Development, RDP Waveform Suite, THAAD PATRIOT Interoperability, Advanced Electronic Counter Measures (AECM), Tasks 2, 6, and 7 activities, Combat ID Enhancements, Common Warfighter Machine Interface (CWMI), Lower Tier Air & Missile Defense-Capability (LTAMD-C), Concept Development and Anti-Radiation Missile (ARM) Asset Defense for the PATRIOT Product Improvement Program (PIP).

PE 0607865A: Patriot Product Improvement

| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army | | Date: February 2015 |
|--|---|---------------------|
| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | |
| 2040: Research, Development, Test & Evaluation, Army I BA 7: Operational | PE 0607865A I Patriot Product Improvement | |
| Systems Development | | |

| B. Program Change Summary (\$ in Millions) | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 35.034 | 152.991 | 143.939 | - | 143.939 |
| Current President's Budget | 33.935 | 57.962 | 105.816 | - | 105.816 |
| Total Adjustments | -1.099 | -95.029 | -38.123 | - | -38.123 |
| Congressional General Reductions | - | -0.029 | | | |
| Congressional Directed Reductions | - | -95.000 | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | - | - | | | |
| SBIR/STTR Transfer | -1.099 | - | | | |
| Adjustments to Budget Years | - | - | -38.123 | - | -38.123 |

| Exhibit R-2A, RDT&E Project Ju | Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | | | | | | | | | | |
|--|---|--|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| Appropriation/Budget Activity 2040 / 7 | | R-1 Program Element (Number/Name) PE 0607865A I Patriot Product Improvement Project (Number/Name) DV8 I Patriot Product Improvement | | | | | | | nt | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| DV8: Patriot Product Improvement | - | 33.935 | 57.962 | 105.816 | - | 105.816 | 131.365 | 167.013 | 129.318 | 115.517 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

Note

Army

Continues effort funded in PE 273801A - PATRIOT PROD IMP PGM (Project 036).

A. Mission Description and Budget Item Justification

Software Improvements for threat evolution: Performs necessary analysis and development efforts to maintain PATRIOT system effectiveness against evolving threat technologies and specific threat capabilities. This effort identifies evolving threats and threat characteristics that might present a challenge to PATRIOT's current capabilities and develops initial concepts to maintain system effectiveness relative to these threats.

Upper-Tier Debris Mitigation (UTDM): Implements algorithms to mitigate system impacts of debris from Upper Tier intercepts associated with operating in the Ballistic Missile Defense System (BMDS) environment. Debris from Upper Tier intercepts can cause significant radar loading effects and the potential for erroneous engagements and missile wastage on debris.

Radar Digital Processor (RDP) Development: Incorporates improvements to mitigate radar hardware obsolescence, improves Reliability, Availability and Maintainability (RAM) and improves performance of the PATRIOT Radar Set against evolving threat sets. This program includes the implementation of Identification Friend or Foe (IFF) Mode 5 Level 1 / Level 2, and a Non-Cooperative Target Recognition (NCTR) Combat ID technique to mitigate potential fratricide risk, and the development of CONOPS to incorporate the new Combat ID capabilities into system operation. The RDP also provides the necessary radar processing capability to support follow-on Evolutionary Development Program (EDP) Tasks 6 and 7 to counter emerging threats and provide data necessary to support migration to IAMD. The RDP is a prerequisite for migration to an IAMD Netted Sensor.

RDP Waveform Suite: Develops a comprehensive set of waveforms in the RDP to improve PATRIOT radar capabilities against current and evolving threats, including support to Task 6 and 7 efforts(see below), and implements advanced data collection enabled by the RDP to support further system improvements. The RDP implementation allows significant radar waveform improvements necessary to counter evolving threats.

SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO): Provides hardware interfaces to support extended range communications within the battalion (TROPO) and Force Operations interfaces to satellite for access to SIPR/NIPR worldwide communication networks.

THAAD/PATRIOT Interoperability: Implements improvements to THAAD/PATRIOT Interoperability and addresses Joint Defense Network (JDN) deficiencies that impact Tactical Ballistic Missile (TBM) battle management and force/engagement operations. Efforts will be concentrated on joint, collaborative force operations (defense design and planning) and enhanced Tactical Digital Information Link - Joint (TADIL J) interoperability.

PE 0607865A: Patriot Product Improvement

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 | |
|---|---|---------------------|--|
| Appropriation/Budget Activity 2040 / 7 | , | , , | umber/Name) iot Product Improvement |

Advanced Electronic Counter Measures (AECM): This task investigates the implications of advanced technology Digital Radio Frequency Memory (DRFM) available on airborne platforms that enables new ECM techniques which could adversely affect Air and Missile Defense System effectiveness.

Task 2: Implements improved ground system and interceptor capabilities (PATRIOT Advanced Capability-2 / Guidance Enhanced Missiles(PAC-2/GEM), PATRIOT Advanced Capability-3 (PAC-3), and Missile Segment Enhancement (MSE)) to counter stressing TBM threats.

Task 6: Software improvements enhance discrimination of higher altitude TBM Re-entry Vehicles (RVs) from associated objects to support the full engagement capabilities of the interceptor. Longer-range detection, track, and improved high-altitude discrimination are required to achieve the required lethality performance against the RV and to mitigate missile wastage against separation debris. This task leverages the signal processing capabilities of the RDP, and supports the high altitude engagements required by the PATRIOT Advanced Capability-3 (PAC-3) and PAC-3 Missile Segment Enhancement (MSE) missiles.

Task 7: Software improvements analyze existing and evolving TBM countermeasures and their effects on PATRIOT system effectiveness. Develops concepts to address countermeasure effects and ensure the PATRIOT system maintains its effectiveness. Develops detailed system requirements to implement concepts; design/ code/test software implementation leveraging RDP, Modernized Adjunct Processor (MAP), Enhanced Weapons Control Computer - Emulator (EWCC-E) and Flight Solution Computer - Redesign (FSC-R) processing capabilities.

Combat ID Enhancements: Develop and implement improvements to the RDP-C Combat ID capabilities and additional NCTR technique to further mitigate misclassification and fratricide risk, and to provide the Warfighter with improved situational awareness.

Common Warfighter-Machine Interface (CWMI): Leverages modern manstation capabilities to implement CWMI concepts to improve training commonality and costefficiency, and to provide better situational awareness. Brings the man-machine interface under development for the IBCS program into the legacy PATRIOT system so that while the IAMD Battle Command System (IBCS) is fielding, the warfighter has the same interface whether he/she is fighting the battle from legacy PATRIOT or from the IBCS. The incorporation of CWMI significantly mitigates the impact to the Institutional Training Base (ITB) and manning requirements during the 8-year transition from legacy PATRIOT to the IBCS system.

Lower Tier Air & Missile Defense-Capability (LTAMD-C), Concept Study: This task provides studies for initial concepts and performance capabilities related to the implementation of an Active Electronically Scanned Array (AESA) transmitter/antenna into the PATRIOT radar. These assessments are needed to refine user community expectations and requirements, and to prepare a viable set of requirements to support a competitive modernization competition.

Anti-Radiation Missile (ARM) Asset Defense: Provides improved capability for PATRIOT to protect other Army and Joint Services Sensors from ARM attacks. Builds on an initial capability provided in Post-Deployment Build (PDB)-7 by determining remaining gaps, identifying and evaluating alternatives, and implementing further improvements.

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| Exhibit R-2A, RDT&E Project Justi | fication: PB | 2016 Army | | | | | | | Date: Fe | bruary 2015 | |
|---|---------------------------------|----------------------------------|--------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------|---------------------------------|----------------------|------------|
| Appropriation/Budget Activity 2040 / 7 | | | | PE 06 | | ment (Numb etriot Product | | | (Number/N atriot Produc | ame) ct Improveme | ent |
| Lower Tier Air & Missile Defense-Ca Capability Materiel Development De determined, the development effort that and Engineering and Manufacturing | cision (MDD) or LTAMD-C | , Analysis of will be acco | f Alternatives Implished. T | s (AOA), and hese activiti | Business C es will conti | ase Analyse | s/Trades. O the Technolo | nce the ma ogy Matura | terial solution tion and Ris | n has been | |
| B. Accomplishments/Planned Prog | grams (\$ in I | Millions) | | | | | | | FY 2014 | FY 2015 | FY 2016 |
| Title: PATRIOT Product Improvemen | nt | | | | | | | | 33.935 | 57.962 | 105.816 |
| Description: Software Improvement | for Threat E | volution | | | | | | | | | |
| Continued Software Improvement for FY 2016 fielding. Supported improve Point/Troposcatter (SNAP/TROPO), Enhancements, and Task 6 efforts for | ements for th Lower Tier A | e Advanced ir & Missile I | Electronic C Defense-Cap | Counter Measoability (LTA | sures (AECN MD-C), Con | Л), SIPRNet/ | NIPRNet Ac | cess | | | |
| FY 2015 Plans: Continues Software Improvement for FY 2016 fielding, providing the field of for AECM, Combat ID Enhancement (LTAMD-C), and Concept Developm | vith additiona s, Tasks 2, 6 | al capability a , and 7 activ | and growth prities, SNAP/ | ootential to c TROPO, Lov | ounter stres | sing threats. | Continues | efforts | | | |
| FY 2016 Plans: Continues Software Improvement for Defense-Capability (LTAMD-C), Con Tasks 2, 6, and 7 activities. Begins I Warfighter-Machine Interface (CWMI | cept Develor RDP Wavefo | oment, Comb rm Suite dev | bat ID Enhar velopment, A | ncements, Ti Inti-Radiatio | HAAD/ PATI n Missile (AF | RIOT Interop RM) Asset De | erability, and efense, Com | d imon | | | |
| | | | | Accor | nplishment | s/Planned P | rograms Sເ | ıbtotals | 33.935 | 57.962 | 105.816 |
| C. Other Program Funding Summa | ry (\$ in Milli | ons) | | | | | | | | | |
| | • * | | FY 2016 | FY 2016 | FY 2016 | | | | | Cost To | |
| <u>Line Item</u> | FY 2014 | FY 2015 | Base | 000 | <u>Total</u> | FY 2017 | FY 2018 | FY 2019 | | Complete | |
| • C50700: Patriot Mods (C50700) | 326.438 | 183.838 | 241.883 | - | 241.883 | 207.692 | 321.879 | 354.907 | 197.147 | Continuing | Continuing |

Remarks

Army

The improvements/enhancements developed through the PATRIOT Product Improvement Program (PIP) are procured and installed under the Missile Procurement, Army (MIPA) appropriation's PATRIOT Mods program.

PE 0607865A: Patriot Product Improvement

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 | |
|---|---|---------------------|--|
| 2040 / 7 | , | , | umber/Name) iot Product Improvement |

D. Acquisition Strategy

The design objective of the PATRIOT system was to provide a baseline system capable of modification to cope with continuing threat evolution. This program minimizes technological risks and provides a means of enhancing system capability through planned upgrades of deployed systems. The PATRIOT Product Improvement Program upgrades the PATRIOT system to address operational lessons learned, enhancements to joint force interoperability and communications, and other system performance improvements to provide overmatch capability against the emerging threat. Upgrades are implemented through individual hardware and software materiel changes and fielded incrementally. This program encompasses several changes which will require the use of a variety of acquisition methods to develop, test, procure and field. Future software capabilities will be incorporated into future PDB releases.

E. Performance Metrics

| N/ | Α |
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|----|---|

Army

PE 0607865A: Patriot Product Improvement

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

2040 / 7

PE 0607865A I Patriot Product

DV8 I Patriot Product Improvement

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|----|-----|----|----|----|----|
|----|-----|----|----|----|----|

| Management Service | Management Services (\$ in Millions) | | | FY 2 | 2014 | FY 2 | 2015 | | 2016 ise | FY 2 | | FY 2016 Total | | | |
|----------------------------------|--------------------------------------|--|----------------|-------|---------------|-------|---------------|-------|---------------|------|---------------|------------------|------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |
| Government Program Management | Various | RSA, AL : MIPR | 0.538 | 0.600 | Oct 2013 | 0.762 | Oct 2014 | 0.400 | Oct 2015 | - | | 0.400 | Continuing | Continuing | Continuing |
| U.S. Contracts | C/FFP | Intuitive Research and Technology Corp. (IRTC) : Huntsville, AL | 0.361 | - | | 1.800 | Feb 2015 | 1.600 | Feb 2016 | - | | 1.600 | Continuing | Continuing | Continuing |
| | | Subtotal | 0.899 | 0.600 | | 2.562 | | 2.000 | | - | | 2.000 | - | - | - |

| Product Development (\$ in Millions) | | FY 2 | 2014 | FY 2 | 2015 | | FY 2016 FY 2016 Base OCO | | | FY 2016 Total | | | | | |
|---|------------------------------|--------------------------------------|----------------|--------|---------------|--------|-----------------------------|--------|---------------|------------------|---------------|--------|------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |
| Software Improvement for Threat Evolution | Various | Multiple : Multiple | 5.370 | 7.500 | Jan 2014 | 8.900 | Jan 2015 | 9.600 | Jan 2016 | - | | 9.600 | Continuing | Continuing | - |
| Upper Tier Debris Mitigation (UTDM) | Various | Multiple : Multiple | 0.000 | - | | - | | 5.000 | Jan 2016 | - | | 5.000 | Continuing | Continuing | - |
| Radar Digital Processor (RDP) Development | Various | Raytheon : Andover, Massachusetts | 23.300 | 16.335 | Aug 2014 | 8.700 | Jan 2015 | 1.500 | Jan 2016 | - | | 1.500 | Continuing | Continuing | - |
| SNAP/TROPO | Various | Multiple : Multiple | 0.000 | 2.000 | Feb 2014 | 0.400 | Feb 2015 | - | | - | | - | Continuing | Continuing | - |
| RDP Waveform Suite | Various | Raytheon : Andover, Massachusetts | 0.000 | - | | - | | 2.000 | Jan 2016 | - | | 2.000 | Continuing | Continuing | - |
| THAAD PATRIOT Interoperability | Various | Multiple : Multiple | 1.200 | - | | - | | 2.000 | Jan 2016 | - | | 2.000 | Continuing | Continuing | - |
| Advanced Electronic Counter Measures (AECM) | Various | Multiple : Multiple | 3.700 | 3.000 | Jan 2014 | 20.000 | Jan 2015 | 10.000 | Jan 2016 | - | | 10.000 | Continuing | Continuing | - |
| Task 2 Non-Ballistic Tactical Ballistic Missile (TBM) | Various | Multiple : Multiple | 5.200 | - | | 5.500 | Jan 2015 | 12.000 | Jan 2016 | - | | 12.000 | Continuing | Continuing | - |
| Task 6 Discrimination Improvements | Various | Multiple : Multiple | 2.100 | 2.000 | Feb 2014 | 2.400 | Feb 2015 | 18.616 | Feb 2016 | - | | 18.616 | Continuing | Continuing | - |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 2040 / 7

PE 0607865A I Patriot Product

DV8 I Patriot Product Improvement

Date: February 2015

Improvement

| Product Developmen | roduct Development (\$ in Millions) | | | FY 2 | 2014 | FY 2 | 2015 | FY 2 Ba | | FY 2 | 2016 CO | | | | |
|--|-------------------------------------|-----------------------------------|----------------|--------|---------------|--------|---------------|------------|---------------|------|---------------|---------|------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |
| Task 7 Tactical Ballistic Missile (TBM) Countermeasures | Various | Multiple : Multiple | 0.000 | - | | 1.000 | Jan 2015 | 15.000 | Jan 2016 | - | | 15.000 | Continuing | Continuing | - |
| Combat ID Enhancements | Various | Multiple : Multiple | 0.000 | 0.800 | Feb 2014 | 1.000 | Feb 2015 | 13.500 | Feb 2016 | - | | 13.500 | Continuing | Continuing | - |
| Common Warfighter- Machine Interface (CWMI) | Various | Multiple : Multiple | 0.000 | - | | - | | 10.000 | Jan 2016 | - | | 10.000 | Continuing | Continuing | - |
| Lower Tier Air & Missile Defense-Capability (LTAMD-C),Concept Development | Various | Multiple : Multiple | 0.000 | 0.300 | Jan 2014 | 1.000 | Jan 2015 | 2.000 | Jan 2016 | - | | 2.000 | Continuing | Continuing | - |
| Anti-Radiation Missile (ARM) Asset Defense | Various | Multiple : Multiple | 0.000 | - | | - | | 2.000 | Jan 2016 | - | | 2.000 | Continuing | Continuing | - |
| Lower Tier Air & Missile Defense-Capability (LTAMD-C) | Various | Multiple : Multiple | 0.000 | - | | 5.000 | Feb 2015 | - | | - | | - | - | 5.000 | - |
| | | Subtotal | 40.870 | 31.935 | | 53.900 | | 103.216 | | - | | 103.216 | - | - | - |

Remarks

The contract method type Sole Source/Various is Fixed Price Level of Effort which includes Cost Plus Fixed Fee for material, ODC, and travel.

Years

42.181

Project Cost Totals

FY 2014

33.935

| Test and Evaluation (\$ in Millions) | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | | |
|--------------------------------------|------------------------------|-----------------------------------|----------------|-------|---------------|-------|-----------------|-------|----------------|------|------------------|---------|------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |
| RDEC and Other Govt Agencies | Various | RSA, AL : MIPR | 0.412 | 1.400 | Jan 2014 | 1.500 | Jan 2015 | 0.600 | Jan 2016 | - | | 0.600 | Continuing | Continuing | Continuing |
| | | Subtotal | 0.412 | 1.400 | | 1.500 | | 0.600 | | - | | 0.600 | - | - | - |
| | | | Prior | | | | | FY 2 | 2016 | FY 2 | 2016 | FY 2016 | Cost To | Total | Target Value of |

PE 0607865A: Patriot Product Improvement Army

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57.962

FY 2015

R-1 Line #167

Base

105.816

oco

Total

105.816

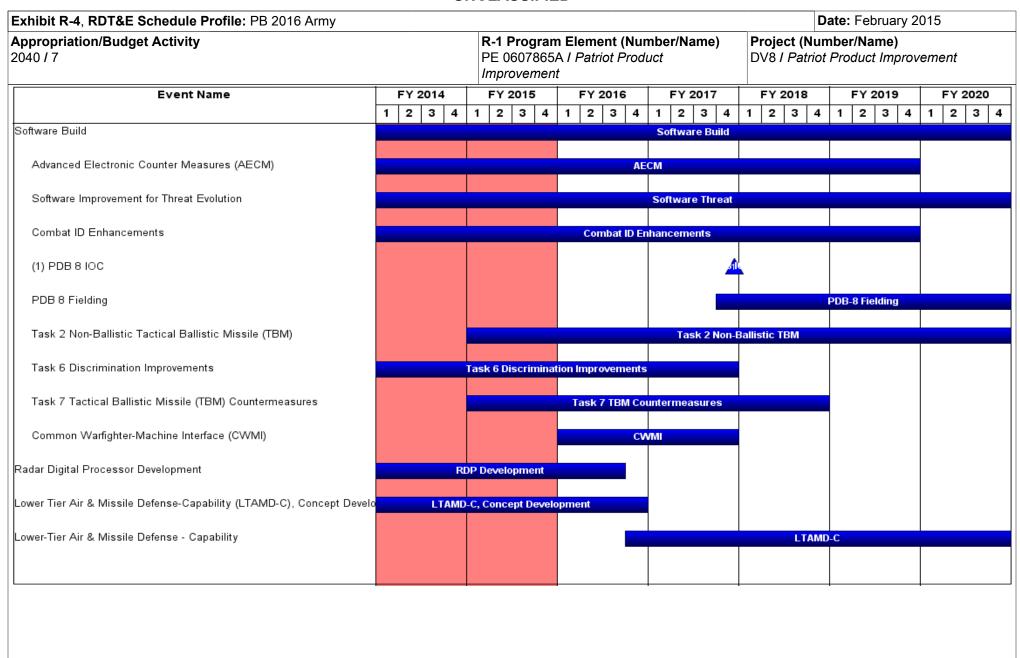
Complete

Cost

Contract

| | | • | DINCLASSIFIED | | | | | | |
|---|-------------------|---------|--|-----------------|---|------------------|---------------------|---------------|------------------------------|
| Exhibit R-3, RDT&E Project Cost Analys | sis: PB 2016 Army | | | | Date | February | 2015 | | |
| Appropriation/Budget Activity 2040 / 7 | | | R-1 Program EI PE 0607865A / I Improvement | Proje | Project (Number/Name) DV8 / Patriot Product Improvement | | | | |
| | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value o Contrac |
| Remarks | | | | | | | | | |
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PE 0607865A: *Patriot Product Improvement* Army



PE 0607865A: *Patriot Product Improvement* Army

| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army | | | Date: February 2015 |
|--|---|-----|--|
| 11 1 | , | , , | umber/Name) iot Product Improvement |

Schedule Details

| | Sta | art | End | | |
|--|---------|------|---------|------|--|
| Events | Quarter | Year | Quarter | Year | |
| Software Build | 4 | 2005 | 4 | 2020 | |
| Advanced Electronic Counter Measures (AECM) | 1 | 2014 | 4 | 2019 | |
| Software Improvement for Threat Evolution | 1 | 2014 | 4 | 2020 | |
| Combat ID Enhancements | 1 | 2014 | 4 | 2019 | |
| PDB 8 IOC | 4 | 2017 | 4 | 2017 | |
| PDB 8 Fielding | 4 | 2017 | 4 | 2020 | |
| Task 2 Non-Ballistic Tactical Ballistic Missile (TBM) | 1 | 2015 | 4 | 2020 | |
| Task 6 Discrimination Improvements | 1 | 2014 | 4 | 2017 | |
| Task 7 Tactical Ballistic Missile (TBM) Countermeasures | 1 | 2015 | 4 | 2018 | |
| Common Warfighter-Machine Interface (CWMI) | 1 | 2016 | 4 | 2017 | |
| Radar Digital Processor Development | 1 | 2012 | 3 | 2016 | |
| Lower Tier Air & Missile Defense-Capability (LTAMD-C), Concept Development | 1 | 2014 | 4 | 2016 | |
| Lower-Tier Air & Missile Defense - Capability | 4 | 2016 | 4 | 2020 | |