

UNCLASSIFIED

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

| | |
|---|---|
| Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD) | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment |
|---|---|

| 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 | - | - | 10.036 | 8.880 | - | 8.880 | 7.880 | 7.000 | 7.161 | - | Continuing | Continuing |
| EE5: Aviation Ground Support Equipment | - | - | 10.036 | 8.880 | - | 8.880 | 7.880 | 7.000 | 7.161 | - | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This PE funds development of Aviation Ground Support Equipment (AGSE). The FY 2016 budget request funds for AGSE developmental testing and acquisition of prototypes to enhance the functionality of current and future aircraft maintenance equipment. This will be accomplished by identifying more effective aircraft maintenance equipment, validating new maintenance concepts, improving machine interfaces, updating aircraft maintenance processes, and replacing obsolete and unsupported equipment with improved diagnostic technologies which will reduce Operation and Support costs. This program provides for the development of rapid battle repair procedures, tools development to speed the return of aircraft to a full mission status, and development of new equipment for aerial recovery of damaged aircraft. Included in this program are: Aircraft Cleaning and De-Icing System (ACDS), Aviation Ground Power Unit (AGPU) redesign and incorporation of AGPU modularity capabilities, Aviation Foot Locker (AFL), Self-propelled Crane Aircraft Maintenance and Positioning (SCAMP II), (formerly referred to as Family of Aviation Lifting Devices (F-ALD)), Aviation Unit Maintenance Shop Set (AVUM SS), Digital Flexible Engine Diagnostic System (DFEDS), Non-Destructive Test Equipment System (NDTE), and development support for tools required to provide maintenance support to modernized/future force aircraft.

| B. Program Change Summary (\$ in Millions) | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | - | 10.041 | 8.880 | - | 8.880 |
| Current President's Budget | - | 10.036 | 8.880 | - | 8.880 |
| Total Adjustments | - | -0.005 | - | - | - |
| • Congressional General Reductions | - | -0.005 | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |

UNCLASSIFIED

| | | | | | | | | | | | | |
|--|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|---|----------------------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | | | | Project (Number/Name) EE5 / Aviation Ground Support Equipment | | | |
| 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 |
| EE5: Aviation Ground Support Equipment | - | - | 10.036 | 8.880 | - | 8.880 | 7.880 | 7.000 | 7.161 | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

Note

Beginning in FY 2015, funding on this Project was realigned from PE/Project 0603801A/B32 to reflect the program's development efforts in Budget Activity 05, System Development and Demonstration.

A. Mission Description and Budget Item Justification

This Project funds development of Aviation Ground Support Equipment (AGSE). The FY 2016 budget request funds for AGSE developmental testing and acquisition of prototypes to enhance the functionality of current and future aircraft maintenance equipment. This will be accomplished by identifying more effective aircraft maintenance equipment, validating new maintenance concepts, improving machine interfaces, updating aircraft maintenance processes, and replacing obsolete and unsupportable equipment with improved diagnostic technologies which will reduce Operation and Support costs. This program provides for the development of rapid battle repair procedures, tools development to speed the return of aircraft to a full mission status, and development of new equipment for aerial recovery of damaged aircraft. Included in this program are: Aircraft Cleaning and De-Icing System (ACDS), Aviation Ground Power Unit (AGPU) redesign and incorporation of AGPU modularity capabilities, Aviation Foot Locker (AFL), Self-propelled Crane Aircraft Maintenance and Positioning (SCAMP II), (formerly referred to as Family of Aviation Lifting Devices (F-ALD)), Aviation Unit Maintenance Shop Set (AVUM SS), Digital Flexible Engine Diagnostic System (DFEDS), Non-Destructive Test Equipment System (NDTE), and development support for tools required to provide maintenance support to modernized/future force aircraft.

B. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2014 | FY 2015 | FY 2016 |
|---|----------------|----------------|----------------|
| Title: Aircraft Cleaning and De-Icing System (ACDS) | - | 0.750 | 0.600 |
| Description: The ACDS will provide aviation maintenance units with a capability to clean external and internal aircraft surfaces and components as well as de-ice aircraft when in the field and deployed locations. | | | |
| FY 2015 Plans: Perform market survey, trade studies, and generate Purchase Item Description (PID) and Request For Proposal (RFP). Perform technical review of proposals, source selection, test sample procurement, systems performance test demonstration for evaluation, and conduct systems safety evaluation to certify and qualify the ACDS for Army aircraft operation. | | | |
| FY 2016 Plans: Complete systems performance test demonstration, complete preparation of the Request for Proposal, and obtain Milestone C decision. | | | |
| Title: Aviation Ground Power Unit (AGPU) | - | 1.400 | 0.300 |

UNCLASSIFIED

| | | | | |
|---|---|---|----------------|----------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 |
| <p>Description: The AGPU provides the capability to meet Army helicopter servicing requirements into the next decade by providing a modular system with external hydraulic, pneumatic, and AC/DC electrical power to all Modernized Force Aircraft.</p> <p>FY 2015 Plans: Develop prototype AGPUs incorporating the redesigned hydraulic module, upgraded electrical system, and power generation replacement and perform prototype testing.</p> <p>FY 2016 Plans: Complete prototype AGPU redesign and hydraulic module, upgrade electrical system and power generation replacement, and perform prototype testing.</p> | | | | |
| <p>Title: Aviation Foot Locker (AFL)</p> <p>Description: The AFL provides a standard Aviation Maintenance capability in a durable outer shell which augments the aviation maintainers' individual tool kits to maintain Army aircraft.</p> <p>FY 2015 Plans: Perform requirements analysis required to standardize AFL across the Force Structure.</p> <p>FY 2016 Plans: Complete requirements analysis for the AFL across the Force Structure.</p> | | - | 0.200 | 0.100 |
| <p>Title: Aviation Unit Maintenance Shop Set (AVUM SS)</p> <p>Description: The AVUM SS consists of three deployable shelters which provide deployable tool loads required for unit-level aviation maintenance tasks.</p> <p>FY 2015 Plans: Procure test samples, perform both developmental and operational testing, and finalize acquisition documentation in preparation for procurement.</p> <p>FY 2016 Plans: Complete developmental and operational testing of test samples and finalize acquisition documentation in preparation for procurement.</p> | | - | 2.309 | 1.303 |
| <p>Title: SCAMP II Flight Line/Expeditionary</p> | | - | 2.745 | 4.406 |

UNCLASSIFIED

| | | | | |
|--|---|---|----------------|----------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 |
| <p>Description: SCAMP II maintenance lifting capability ranges from simple scheduled maintenance lifting on the flight line and other improved Aviation maintenance areas, to maintenance lifting required during contact maintenance and Downed Aircraft Recovery Team (DART) operations in unimproved environments.</p> <p>FY 2015 Plans: Perform Market Survey, prepare Statement of Work, create detailed test plan, prepare Contract Requirements Package, perform technical reviews of proposals, and procure samples for testing.</p> <p>FY 2016 Plans: Complete testing of product samples, complete Source Selection Evaluation Board, and complete acquisition documentation supporting a Milestone C decision.</p> | | | | |
| <p>Title: Digital Flexible Engine Diagnostic System (DFEDS)</p> <p>Description: The DFEDS is an advanced technology engine test system designed to test and verify flight readiness of engines removed from aircraft for maintenance.</p> <p>FY 2016 Plans: Initiate and complete depot-level on-site calibration capability in order to increase accuracy and increase the mean time between overhaul. Evaluate support plan, decision brief & recommendations, and convert DFEDS Prototype to production with International Standard Organization.</p> | | - | - | 0.500 |
| <p>Title: Common Aviation Tool System (CATS)</p> <p>Description: CATS consists of individual aviation mechanics tool kit containers, aerospace standard tools, foam shadowed drawers and a component listing with picture diagrams for ease of inventory and to minimize foreign object damage to aircraft. CATS provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft during combat, contingency and training operations.</p> <p>FY 2015 Plans: Perform tool study analysis as required to determine whether Army Aviation Maintenance Units require further CATS modernization.</p> | | - | 0.100 | - |
| <p>Title: Non-Destructive Test Equipment (NDTE)</p> <p>Description: NDTE provides Army Aviation Maintenance units with an electronic test instrument to inspect aircraft components and structures without complete disassembly or removal of components from the aircraft.</p> | | - | 0.450 | 0.429 |

UNCLASSIFIED

| | | | | |
|---|---|---|----------------|----------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 |
| <p>FY 2015 Plans: Begin research and development of Non-Destructive Test Equipment (eddy current, ultrasonic, harmonic bond, and radiography) for modernization and technology advancements, prepare Statement of Work, create detailed test plan, and prepare contract requirements package.</p> <p>FY 2016 Plans: Complete research and development and product samples and testing.</p> | | | | |
| <p>Title: Unit Maintenance Aerial Recovery Kit (UMARK)</p> <p>Description: UMARK provides Aviation Support Company and Aviation Maintenance Company units with the ability to quickly rig for transport crash-damaged non-flyable modernized aircraft or aircraft undergoing maintenance for evacuation.</p> <p>FY 2015 Plans: Finalize UMARK Test Data Package, procedures and manuals.</p> | | - | 0.800 | - |
| <p>Title: Management Support Services</p> <p>Description: Management Support Services in support of the Aviation Ground Support Equipment Product Management Office.</p> <p>FY 2015 Plans: Management Support Services.</p> <p>FY 2016 Plans: Management Support Services</p> | | - | 0.350 | 0.637 |
| <p>Title: RDTE Project Test Support</p> <p>Description: RDTE Project Test Support for the Aviation Ground Support Equipment Product Management Office.</p> <p>FY 2015 Plans: RDTE Project Test Support.</p> <p>FY 2016 Plans: Project Test Support</p> | | - | 0.490 | 0.215 |
| <p>Title: Technical Engineering Services</p> <p>Description: Technical Engineering Services in support of the Aviation Ground Support Equipment Product Management Office.</p> <p>FY 2015 Plans:</p> | | - | 0.442 | 0.390 |

UNCLASSIFIED

| | | |
|--|---|---|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | Date: February 2015 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |

| | | | |
|---|----------------|----------------|----------------|
| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2014 | FY 2015 | FY 2016 |
| Technical Engineering Services. | | | |
| FY 2016 Plans: Technical Engineering Services | | | |
| Accomplishments/Planned Programs Subtotals | - | 10.036 | 8.880 |

| | | | | | | | | | | | |
|---|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | 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 |
| • Aviation Ground Support Equipment: <i>Aviation Ground Support Equipment, SSN AZ3520</i> | - | 29.231 | 64.867 | - | 64.867 | 64.447 | 71.285 | 63.008 | 62.471 | - | 355.309 |

Remarks

D. Acquisition Strategy

This project is an aggregate of advanced maintenance concepts related projects. While the detailed acquisition strategy varies from project to project, the general strategy for each individual project is to complete the development effort through Government test (developmental and operational). Program documentation for milestone decision is prepared, as appropriate, concurrently with the development effort.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

| | | |
|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |
|--|---|---|

| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|-----------------------------------|---|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Management Support Services | Various | PM AGSE : Redstone Arsenal, AL | 0.000 | - | | 0.350 | Oct 2014 | 0.637 | Oct 2015 | - | | 0.637 | Continuing | Continuing | Continuing |
| Subtotal | | | 0.000 | - | | 0.350 | | 0.637 | | - | | 0.637 | - | - | - |

Remarks
None.

| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|-----------------------------------|--|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| ACDS | Various | AATD, Ft. Eustis, VA, , Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD : APB | 0.000 | - | | 0.750 | Jul 2015 | 0.600 | Mar 2016 | - | | 0.600 | - | 1.350 | - |
| AGPU | Various | UAH, RSA, AL; RTTC, Redstone Arsenal, AL; AMRDEC, RSA, AL; Aberdeen Test Center, : Aberdeen Proving Ground, MD | 0.000 | - | | 1.400 | Apr 2015 | 0.300 | Jul 2016 | - | | 0.300 | - | 1.700 | - |
| AFL | Various | AMCOM, SRA; TRADOC, : Fort Rucker, AL | 0.000 | - | | 0.200 | Jan 2015 | 0.100 | Jan 2016 | - | | 0.100 | - | 0.300 | - |
| AVUM SS | Various | AMRDEC, RSA; RTTC, RSA; Aberdeen Test Center, : Aberdeen Proving Ground, MD | 0.000 | - | | 2.309 | Apr 2015 | 1.303 | Jul 2016 | - | | 1.303 | - | 3.612 | - |
| SCAMP II Flight Line/ Expeditionary | Various | AMCOM, RSA; AMRDEC, RSA : | 0.000 | - | | 2.745 | Jun 2015 | 4.406 | Jul 2016 | - | | 4.406 | - | 7.151 | - |

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

| | | |
|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |
|--|---|---|

| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|-----------------------------------|--|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| | | Redstone Arsenal, AL | | | | | | | | | | | | | |
| DFEDS | Various | RTTC (RSA); AMDREDEC (RSA); : Redstone Arsenal, AL | 0.000 | - | | - | | 0.500 | Feb 2016 | - | | 0.500 | Continuing | Continuing | Continuing |
| CATS | MIPR | AMRDEC(RSA), AL; Aberdeen Test Center (ATC), : Aberdeen Proving Ground, MD | 0.000 | - | | 0.100 | Aug 2015 | - | | - | | - | - | 0.100 | - |
| NDTE | Various | AMRDEC, RSA, AL; ATC : Aberdeen Proving Ground, MD | 0.000 | - | | 0.450 | Apr 2015 | 0.429 | Jul 2016 | - | | 0.429 | - | 0.879 | - |
| UMARK | Various | AMRDEC, RSA, AL; Aberdeen Test Center, APG, MD; AATD : Fort Eustis, VA | 0.000 | - | | 0.800 | Feb 2015 | - | | - | | - | - | 0.800 | - |
| Subtotal | | | 0.000 | - | | 8.754 | | 7.638 | | - | | 7.638 | - | - | - |

Remarks
None.

| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---------------------------------|-----------------------------------|---|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Technical Engineering Services | MIPR | AATD : Ft. Eustis, VA | 0.000 | - | | 0.300 | Apr 2015 | 0.200 | Apr 2016 | - | | 0.200 | Continuing | Continuing | Continuing |
| Technical Engineering Services | MIPR | AED : Redstone Arsenal, AL | 0.000 | - | | 0.142 | Apr 2015 | 0.190 | Apr 2016 | - | | 0.190 | Continuing | Continuing | Continuing |
| Subtotal | | | 0.000 | - | | 0.442 | | 0.390 | | - | | 0.390 | - | - | - |

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

| | | |
|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |
|--|---|---|

| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |

Remarks
None.

| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--------------------------------------|------------------------|-----------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| RDTE Project Test Support | MIPR | ATC : Aberdeen Proving Ground, MD | 0.000 | - | | 0.320 | Jan 2015 | 0.100 | Jan 2016 | - | | 0.100 | Continuing | Continuing | Continuing |
| RDTE Project Test Support | Various | AMRDEC : Redstone Arsenal, AL | 0.000 | - | | 0.115 | May 2015 | 0.075 | May 2016 | - | | 0.075 | Continuing | Continuing | Continuing |
| RDTE Project Test Support | Various | AMCOM, : Redstone Arsenal, AL | 0.000 | - | | 0.055 | Jan 2015 | 0.040 | Jan 2016 | - | | 0.040 | Continuing | Continuing | Continuing |
| Subtotal | | | 0.000 | - | | 0.490 | | 0.215 | | - | | 0.215 | - | - | - |

Remarks
None.

| | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| Project Cost Totals | 0.000 | - | 10.036 | 8.880 | - | 8.880 | - | - | - |

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

| | | |
|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |
|--|---|---|

| Event Name | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------|---|---|---|---------|---|---|---|---------|---|---|---|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Aircraft Cleaning and De-Icing System (ACDS) | | | | | | | | | ACDS | | | | | | | | | | | | | | | | | | | | | | | |
| (1) Aircraft Cleaning and De-Icing System (ACDS) MS C | | | | | | | | | | | | | | | | | ▲ | | | | | | | | | | | | | | | |
| Aviation Ground Power Unit (AGPU) | | | | | | | | | | | | | | | | | AGPU | | | | | | | | | | | | | | | |
| Aviation Foot Locker (AFL) | | | | | | | | | | | | | | | | | AFL | | | | | | | | | | | | | | | |
| Aviation Unit Maintenance Shop Set (AVUM SS) | | | | | | | | | | | | | | | | | AVUM SS | | | | | | | | | | | | | | | |
| Self-propelled Crane Aircraft Maintenance and Positioning II | | | | | | | | | | | | | | | | | SCAMP II | | | | | | | | | | | | | | | |
| Common Aviation Tool System (CATS) | | | | | | | | | | | | | | | | | CATS | | | | | | | | | | | | | | | |
| Non-Destructive Test Equipment (NDTE) | | | | | | | | | | | | | | | | | NDTE | | | | | | | | | | | | | | | |
| Unit Maintenance Aerial Recovery Kit (UMARK) | | | | | | | | | | | | | | | | | UMARK | | | | | | | | | | | | | | | |
| Digital Flexible Engine Diagnostic System (DFEDS) | | | | | | | | | | | | | | | | | | | | | DFEDS | | | | | | | | | | | |
| Aviation Maintenance Support System (AMSS) | | | | | | | | | | | | | | | | | AMSS | | | | | | | | | | | | | | | |
| Generic Aircraft Nitrogen Generator (GANG) | | | | | | | | | | | | | | | | | | | | | GANG | | | | | | | | | | | |
| Pitot Static Test Set (PSTS) | | | | | | | | | | | | | | | | | | | | | PSTS | | | | | | | | | | | |

UNCLASSIFIED

| | | |
|---|---|---|
| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army | | Date: February 2015 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment | Project (Number/Name) EE5 / Aviation Ground Support Equipment |

Schedule Details

| Events | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Aircraft Cleaning and De-Icing System (ACDS) | 4 | 2015 | 4 | 2016 |
| Aircraft Cleaning and De-Icing System (ACDS) MS C | 2 | 2016 | 2 | 2016 |
| Aviation Ground Power Unit (AGPU) | 3 | 2015 | 1 | 2017 |
| Aviation Foot Locker (AFL) | 2 | 2015 | 2 | 2016 |
| Aviation Unit Maintenance Shop Set (AVUM SS) | 3 | 2015 | 1 | 2017 |
| Self-propelled Crane Aircraft Maintenance and Positioning II | 3 | 2015 | 2 | 2017 |
| Common Aviation Tool System (CATS) | 4 | 2015 | 3 | 2016 |
| Non-Destructive Test Equipment (NDTE) | 3 | 2015 | 2 | 2017 |
| Unit Maintenance Aerial Recovery Kit (UMARK) | 2 | 2015 | 2 | 2016 |
| Digital Flexible Engine Diagnostic System (DFEDS) | 2 | 2016 | 4 | 2017 |
| Aviation Maintenance Support System (AMSS) | 2 | 2017 | 4 | 2021 |
| Generic Aircraft Nitrogen Generator (GANG) | 2 | 2018 | 2 | 2019 |
| Pitot Static Test Set (PSTS) | 2 | 2017 | 4 | 2019 |