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**Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army** **Date:** March 2024

|  |  |
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| <b>Appropriation/Budget Activity</b><br>2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P) | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev |
|--|--|

| COST (\$ in Millions)          | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|--------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element          | -           | 24.287  | 7.604   | 12.445       | -           | 12.445        | 12.845  | 9.869   | 2.783   | 2.811   | Continuing       | Continuing |
| 526: Marine Orien Log Eq Ad    | -           | 2.385   | 2.434   | 2.374        | -           | 2.374         | 2.723   | 2.752   | 2.783   | 2.811   | Continuing       | Continuing |
| EW8: Armored Engineer Vehicles | -           | 6.902   | 5.170   | 10.071       | -           | 10.071        | 10.122  | 7.117   | -       | -       | 0.000            | 39.382     |
| G11: Adv Elec Energy Con Ad    | -           | 15.000  | -       | -            | -           | -             | -       | -       | -       | -       | 0.000            | 15.000     |

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

This Program Element (PE) supports advanced component development and prototypes of new and improved technologies for combat support and combat service support equipment essential to sustaining combat operations. Advancements in bridging, armored engineer vehicles to include development of a robotic capability Remote Control System for the Assault Breacher Vehicle, electric power generators, material-handling, environmental control, shelter systems, cargo aerial delivery, field service systems, mortuary affairs equipment and petroleum equipment are necessary to improve safety and increase the tactical mobility, operational capability, lethality and survivability on the digital battlefield and to provide for greater sustainment while reducing the logistics support burden. Army Watercraft funding supports initiatives to enhance the seaworthiness, safety, survivability, supportability, energy efficiency, environmental, bulk fuel, water generation, regulatory compliance and reliability of existing systems.

**B. Program Change Summary (\$ in Millions)**

|                                     | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025 Base</u> | <u>FY 2025 OCO</u> | <u>FY 2025 Total</u> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget         | 24.638         | 7.604          | 12.480              | -                  | 12.480               |
| Current President's Budget          | 24.287         | 7.604          | 12.445              | -                  | 12.445               |
| Total Adjustments                   | -0.351         | 0.000          | -0.035              | -                  | -0.035               |
| • Congressional General Reductions  | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions | -              | -              |                     |                    |                      |
| • Congressional Rescissions         | -              | -              |                     |                    |                      |
| • Congressional Adds                | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers  | -              | -              |                     |                    |                      |
| • Reprogrammings                    | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                | -0.351         | -              |                     |                    |                      |
| • Adjustments to Budget Years       | -              | -              | -0.035              | -                  | -0.035               |

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** G11: Adv Elec Energy Con Ad

Congressional Add: *Lightweight Portable Power*

Congressional Add: *Mobile micro-reactor program*

|  | FY 2023 | FY 2024 |
|--|---------|---------|
|  | 3.000   | -       |
|  | 12.000  | -       |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Army | <b>Date:</b> March 2024 |
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| <b>Appropriation/Budget Activity</b><br>2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> |
|---|---|

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

|  | FY 2023 | FY 2024 |
|--|---------|---------|
| Congressional Add Subtotals for Project: G11 | 15.000  | -       |
| Congressional Add Totals for all Projects    | 15.000  | -       |

**Change Summary Explanation**

Change from prior year to current year is a result of cost adjustments.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Army **Date:** March 2024

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| <b>Appropriation/Budget Activity</b><br>2040 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>526 / Marine Orien Log Eq Ad |
|--|--|--|

| COST (\$ in Millions)       | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To    | Total      |
|-----------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------|------------|
|                             |             |         |         |              |             |               |         |         |         |         | Complete   | Cost       |
| 526: Marine Orien Log Eq Ad | -           | 2.385   | 2.434   | 2.374        | -           | 2.374         | 2.723   | 2.752   | 2.783   | 2.811   | Continuing | Continuing |
| Quantity of RDT&E Articles  | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       |            |            |

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

Project 526 Marine Orientation Logistics Equipment Advanced Development line supports current Army Watercraft Systems (AWS) that provide the Combatant, Multi-Domain Operations (MDO) and Joint All Domain Operations (JADO) Commanders with an organic waterborne lift capability to enable Dynamic Force Repositioning (DFR) in support of unified land operations. AWS provides the waterborne transportation capability to deliver combat-configured equipment with personnel, vehicles and sustainment cargo (Bulk Water and Fuel), through fixed, degraded and austere ports, inland waterways, remote and unimproved beaches and coastlines for missions across the spectrum of military operations. AWS bridges the gap between strategic sealift and sustains lethality in littoral areas or where mature ports and road networks are unavailable. Watercraft are a key enabler to Army and Joint force in support of Title 10 and DODD missions of providing logistics to joint operations and campaigns, including DODD missions of providing logistics to joint operations and campaigns, including joint logistics over joint logistics over-the-shore and intra-theater transport of time sensitive, mission-critical personnel and equipment, and in support of amphibious and riverine operations (DODD 5100.01).

This Army Watercraft funding supports initiatives to enhance the seaworthiness, safety, and survivability while increasing the lethality, tactical mobility, and operational capability of the Army Mariner to preserve the Combatant Commanders requirement of "freedom of seas" access in all areas of the world particularly the littorals, to support maneuver operations in all Areas of Responsibility. All modification and services efforts are critical enablers for the success Army's Watercraft Systems Transformation Strategy (AWSTS) and continued fulfillment of the AWS Title 10 mission.

Funded engineering efforts will address critical gaps in these areas for the current AWS for regaining capability, while at the same time researching, developing and testing emergent technologies. To support future acquisitions and future fleet planning, funding efforts will include conducting trade studies, Business Case Analyses to inform the requirement development process, and support Analysis of Alternatives (AoA). The funding enables Army's compliance with the National Defense Authorization Act of 1996 and 502(6) of the Clean Water Act and compliance with Environmental protection Agency (EPA) emission standards.

FY 2025 RDTE dollars in the amount of \$2.374 million supports modernization of the current Army Watercraft fleet by investigating technology insertions, including, but not limited to: force protection, prognostics & preventative maintenance, vessel electronics, autonomous operations and other emerging technologies. Funding also supports developing initial prototypes to enable refinement of operational requirements and early user feedback to support future sustainment and operational movement operating concepts. All Army Watercraft modernization efforts will incorporate Predictive Logistics which includes digital updates across commercial solutions which will improve readiness, predictive maintenance, unplanned emergency repairs.

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

|  | FY 2023 | FY 2024 | FY 2025 |
|--|---------|---------|---------|
| <b>Title:</b> Environmental Compliance Projects (UNDs) | 0.055   | 0.070   | 0.070   |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army  |   | <b>Date:</b> March 2024  |                |                |
| <b>Appropriation/Budget Activity</b><br>2040 / 4  | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>526 / <i>Marine Oriented Log Eq Ad</i> |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |   | <b>FY 2023</b>   | <b>FY 2024</b> | <b>FY 2025</b> |
| <p><b>Description:</b> Environmental projects enable compliance with requirements as defined under in the law Uniform National Discharge Standards (UNDS) and Environmental Protection Agency (EPA) emissions standards. The EPA reviews the UNDS Code of Federal Regulations (CFR) language in five-year increments separated into three batches (types of discharge). This is an ongoing assessment of statutory language which may or may not result in material solution change.</p> <p><b>FY 2024 Plans:</b><br/>Update UNDS Awareness brief for Batch III Discharges and develop an environmental compliance waterfront training brief.</p> <p><b>FY 2025 Plans:</b><br/>Support for all aspects of the UNDS program, including updates for Army UNDS implementation plan and Technical bulletin; provide recommendation for new Army watercraft designs equipped with clean ballast water systems and their respective ship specifications based on Approval process (including environmental testing of shock, vibe and EMI).</p> |   |  |                |                |
| <p><b>Title:</b> Force Protection Capability</p> <p><b>Description:</b> Army Watercraft Systems (AWS) Force Protection capability is limited to defensive measures. Current efforts include development of gunner station and weapon station locations, integration of Common Remotely Weapon Station (CROWS) and non-lethal Escalation of Force (EoF). The EoF capability includes white light, an acoustic hailing device, and Forward Looking Infra-Red (FLIR) cameras.</p> <p><b>FY 2024 Plans:</b><br/>Support EoF capabilities that include, but are not limited to, white light, an acoustic hailing device, sub surface surveillance, and Electro-Optical / Infrared (EO/IR) capabilities.</p> <p><b>FY 2025 Plans:</b><br/>Support CROWS testing and EoF capabilities that include, but are not limited to, white light, an acoustic hailing device, sub surface surveillance, and Electro-Optical / Infrared (EO/IR) capabilities.</p>  |   | 0.530  | 0.524          | 0.524          |
| <p><b>Title:</b> Army Watercraft Program Support</p> <p><b>Description:</b> Army Watercraft Program Support includes Program Management and System Engineering matrix salaries and in-house contractor salaries, travel, and other support costs required to effectively manage the AWS projects and provide contractor oversight. It also includes benefits, personnel training, and other Government costs required to retain a professional acquisition workforce.</p> <p><b>FY 2024 Plans:</b></p>  |   | 1.100  | 1.190          | 1.180          |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army  |  | <b>Date:</b> March 2024                                       |                |                |
| <b>Appropriation/Budget Activity</b><br>2040 / 4  | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>526 / Marine Orient Log Eq Ad |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |  | <b>FY 2023</b>  | <b>FY 2024</b> | <b>FY 2025</b> |
| Provide engineering support for C5ISR Studies, LSV technical upgrades and Force Protection design work.<br><b>FY 2025 Plans:</b><br>Provide engineering support for C5ISR Studies, LSV technical upgrades and Force Protection design work.<br><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b><br>FY25 decrease in matrix labor support for RDTE requirements.   |  |   |                |                |
| <b>Title:</b> Trade Studies and Business Analysis<br><b>Description:</b> Conduct Affordability and Feasibility Studies for concept development for future vessel platforms.<br><b>FY 2024 Plans:</b><br>Funding will continue to support concept development improvements for the current and future fleet.<br><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b><br>Decrease due to completion of trade study and business analysis efforts in FY24.   |  | 0.050   | 0.050          | -              |
| <b>Title:</b> Predictive Logistics<br><b>Description:</b> As Army Watercraft are equipped with subsystems that allow for sharing of digital information it is a natural evolution to incorporate Predictive Logistics which includes digital updates across commercial solutions which will improve readiness, improve maintainability with predictive maintenance, and timely repair of unplanned emergency repairs.<br><b>FY 2024 Plans:</b><br>Funding to ramp up of predictive logistics to improve new digital integrated subsystem upgrades on the vessels.<br><b>FY 2025 Plans:</b><br>Funding for predictive logistics to improve new digital integrated subsystem upgrades on the vessels. |  | 0.050   | 0.100          | 0.100          |
| <b>Title:</b> Test Support<br><b>Description:</b> Supports in house and external performance tests of concept hardware. In addition, supports evaluation of subsystems and components for Army Watercraft Systems Current Fleet.<br><b>FY 2024 Plans:</b><br>Funding will continue to support test and evaluation engineering design changes on the fleet to improve maintainability and readiness of the fleet.<br><b>FY 2025 Plans:</b>   |  | 0.150   | 0.500          | 0.500          |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army |  | <b>Date:</b> March 2024                                       |
| <b>Appropriation/Budget Activity</b><br>2040 / 4                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>526 / Marine Orient Log Eq Ad |

| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>  | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025</b> |
|--|----------------|----------------|----------------|
| Funding will continue to support test and evaluation engineering design changes on the fleet to improve maintainability and readiness of the fleet.  |                |                |                |
| <b>Title:</b> At Sea Transfer Technology   | 0.450          | -              | -              |
| <b>Description:</b> At Sea Transfer Technology enables roll on and roll off (RO/RO) capability from vessels at sea and causeway transport of vehicles and equipment to the beach or shore. The current effort serves to inform development of the Service Life Extension Program (SLEP) for the Modular Warping Tug (MWT) and Causeway Ferru (CF) which are principle working platforms on the Modular Causeway System (MCS) |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>  | 2.385          | 2.434          | 2.374          |

| <b>C. Other Program Funding Summary (\$ in Millions)</b> |                |                |                     |                    |                      |                |                |                |                |                         |                   |
|--|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| <b>Line Item</b>   | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025 Base</b> | <b>FY 2025 OCO</b> | <b>FY 2025 Total</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b> | <b>FY 2029</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
| • MA4501: MODIFICATION KITS                              | 37.891         | 20.282         | 26.258              | -                  | 26.258               | 20.117         | 35.663         | 32.332         | 32.655         | Continuing              | Continuing        |
| • MA4502: INSTALLATION OF MODIFICATIONS                  | 4.999          | 5.833          | 8.160               | -                  | 8.160                | 5.575          | 9.861          | 9.848          | 9.903          | Continuing              | Continuing        |
| • M11101: Army Watercraft Esp                            | 47.889         | 30.592         | 55.459              | -                  | 55.459               | 59.275         | 71.374         | 29.699         | 29.996         | 0.000                   | 324.284           |

**Remarks**

**D. Acquisition Strategy**  
 The Product Manager for Army Watercraft intends to leverage government and public research centers Ground Vehicle Systems Center (GVSC), Naval Surface Warfare Center (NSWC) Philadelphia, AWS System Technical Support (STS) contractor (Noblis) and known public research institutes (Battelle) along with associated contract mechanisms to prototype, test, and evaluate component technologies that can improve maintainability and supportability, increase readiness, and reduce costs of Army Watercraft Systems.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army** **Date:** March 2024

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| <b>Appropriation/Budget Activity</b><br>2040 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>526 / Marine Oriented Log Eq Ad |
|--|--|---|

| <b>Product Development (\$ in Millions)</b>                          |                        |                                       |             | FY 2023 |            | FY 2024 |            | FY 2025 Base |            | FY 2025 OCO |            | FY 2025 Total |                  |            |                          |
|--|------------------------|---------------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item   | Contract Method & Type | Performing Activity & Location        | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Force Protection, Escalation of Force (EoF) Development (i.e. CROWS) | MIPR                   | TARDEC : Warren, MI                   | 6.188       | 0.530   | Nov 2022   | 0.524   | Nov 2023   | 0.524        | Nov 2024   | -           |            | 0.524         | Continuing       | Continuing | -                        |
| Environmental Compliance Uniform National Discharge Standards (UNDS) | MIPR                   | Carderock : Maryland and Pennsylvania | 3.448       | 0.055   | Oct 2022   | 0.070   | Oct 2023   | 0.070        | Oct 2024   | -           |            | 0.070         | Continuing       | Continuing | -                        |
| Trade Study Analyses   | TBD                    | TBD : TBD                             | 0.453       | 0.050   | Feb 2023   | 0.050   | Feb 2024   | -            |            | -           |            | -             | 0.000            | 0.553      | -                        |
| Predictive Logistics   | TBD                    | TBD : TBD                             | -           | 0.050   | Jun 2023   | 0.100   | Dec 2024   | 0.100        | Dec 2024   | -           |            | 0.100         | 0.000            | 0.250      | -                        |
| At Sea Transfer Technology   | MIPR                   | Battelle : Battelle                   | 7.984       | 0.450   | May 2023   | -       |            | -            |            | -           |            | -             | 0.000            | 8.434      | -                        |
| <b>Subtotal</b>  |                        |                                       | 18.073      | 1.135   |            | 0.744   |            | 0.694        |            | -           |            | 0.694         | Continuing       | Continuing | N/A                      |

| <b>Support (\$ in Millions)</b> |                        |  |             | FY 2023 |            | FY 2024 |            | FY 2025 Base |            | FY 2025 OCO |            | FY 2025 Total |                  |            |                          |
|---------------------------------|------------------------|--|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item              | Contract Method & Type | Performing Activity & Location                                       | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Army Watercraft Program Support | MIPR                   | Detroit Arsenal PMs, TARDEC, NAVSEA Carderock : Maryland, Warren, MI | 3.167       | 1.100   | Dec 2022   | 1.190   | Dec 2023   | 1.180        | Dec 2024   | -           |            | 1.180         | Continuing       | Continuing | -                        |
| <b>Subtotal</b>                 |                        |  | 3.167       | 1.100   |            | 1.190   |            | 1.180        |            | -           |            | 1.180         | Continuing       | Continuing | N/A                      |

| <b>Test and Evaluation (\$ in Millions)</b> |                        |                                |             | FY 2023 |            | FY 2024 |            | FY 2025 Base |            | FY 2025 OCO |            | FY 2025 Total |                  |            |                          |
|---|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Test and Evaluation                         | TBD                    | TBD : TBD                      | -           | 0.150   | Jun 2023   | 0.500   | Oct 2023   | 0.500        | Oct 2024   | -           |            | 0.500         | 0.000            | 1.150      | -                        |
| <b>Subtotal</b>                             |                        |                                | -           | 0.150   |            | 0.500   |            | 0.500        |            | -           |            | 0.500         | 0.000            | 1.150      | N/A                      |



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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b> |  |   | <b>Date: March 2024</b> |  |  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4             |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> |                         | <b>Project (Number/Name)</b><br>526 / <i>Marine Oriented Log Eq Ad</i> |  |

| Event Name                                    | FY 2023    |   |   |   | FY 2024    |   |   |   | FY 2025 |   |   |   | FY 2026 |   |   |   | FY 2027 |   |   |   | FY 2028 |   |   |   | FY 2029 |   |   |   |
|---|------------|---|---|---|------------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|   | 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 Watercraft Program Support               | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Force Protection: Escalation of Force (EOF)   | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Force Protection: CROWS on LSV Class          | [Redacted] |   |   |   | [Redacted] |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Force Protection: CROWS on LCU Class          | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Environmental Compliance                      | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Uniformed National Discharge Standards (UNDS) | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Predictive Logistics                          | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| At Sea Transfer Technology                    | [Redacted] |   |   |   | [Redacted] |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2025 Army</b> |   | <b>Date:</b> March 2024  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4              | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>526 / <i>Marine Oriented Log Eq Ad</i> |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| Army Watercraft Program Support                 | 1       | 2018 | 4       | 2029 |
| Force Protection: Escalation of Force (EOF)     | 1       | 2018 | 4       | 2029 |
| Force Protection: CROWS on LSV Class            | 1       | 2018 | 4       | 2023 |
| Force Protection: CROWS on LCU Class            | 1       | 2023 | 4       | 2028 |
| At Sea Transfer Technology (MCS)                | 1       | 2018 | 1       | 2021 |
| Modular Warping Tug (MWT) / Causeway Ferry (CF) | 1       | 2018 | 1       | 2021 |
| MWT / CF - SLEP Development Contract            | 4       | 2018 | 4       | 2018 |
| MWT / CF - SLEP Prototype and Proof Concept     | 1       | 2018 | 4       | 2020 |
| MWT / CF - SLEP Testing                         | 1       | 2020 | 4       | 2020 |
| Environmental Compliance                        | 1       | 2018 | 4       | 2029 |
| Uniformed National Discharge Standards (UNDS)   | 1       | 2018 | 4       | 2029 |
| UNDS Batch 2                                    | 4       | 2020 | 4       | 2020 |
| UNDS Batch 3                                    | 4       | 2022 | 4       | 2022 |
| Trade Studies and Business Analyses             | 4       | 2019 | 2       | 2022 |
| Predictive Logistics                            | 1       | 2023 | 4       | 2029 |
| At Sea Transfer Technology                      | 2       | 2018 | 4       | 2023 |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army |                    |                |                |                     |   |                      |                |                |  | <b>Date:</b> March 2024 |                         |                   |
| <b>Appropriation/Budget Activity</b><br>2040 / 4                   |                    |                |                |                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> |                      |                |                | <b>Project (Number/Name)</b><br>EW8 / <i>Armored Engineer Vehicles</i> |                         |                         |                   |
| <b>COST (\$ in Millions)</b>                                       | <b>Prior Years</b> | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025 Base</b> | <b>FY 2025 OCO</b>  | <b>FY 2025 Total</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b>   | <b>FY 2029</b>          | <b>Cost To Complete</b> | <b>Total Cost</b> |
| EW8: <i>Armored Engineer Vehicles</i>                              | -                  | 6.902          | 5.170          | 10.071              | -   | 10.071               | 10.122         | 7.117          | -  | -                       | 0.000                   | 39.382            |
| Quantity of RDT&E Articles   | -                  | -              | -              | -                   | -   | -                    | -              | -              | -  | -                       |                         |                   |

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

This project supports the prototype development, test and evaluation of a robotic capability Remote Control System (RCS) for the Assault Breacher Vehicle (ABV), to include prototype fabrication, developmental testing, operational testing and logistics demonstration / user test events.

Funding supports modernization of Army Bridging and Armored Engineer Vehicle fleets by investigating technology insertions including, but not limited to: condition based maintenance, increased military load capacities, autonomous operations and other emerging technologies. Funding also supports developing initial prototypes and testing to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

FY 2025 Base dollars in the amount of \$10.071 million supports a Assault Breacher Vehicle Robotic Control System (ABV RCS) development contract award for test asset build, developmental testing, logistics and training development, and program support.

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

|   | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025</b> |
|---|----------------|----------------|----------------|
| <b>Title:</b> Assault Breacher Vehicle (ABV) Remote Control System (RCS)  | 6.902          | 5.170          | 10.071         |
| <b>FY 2024 Plans:</b><br>Funds additional prototype testing, conduct of a second User Jury, test asset shipping, and program support.               |                |                |                |
| <b>FY 2025 Plans:</b><br>Funds award of a follow-on development contract, training and logistics development, and associated developmental testing. |                |                |                |
| <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b><br>Increase in FY 2025 for training/logistic development activities.                         |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>   | 6.902          | 5.170          | 10.071         |

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

N/A

**Remarks**

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army |   | <b>Date:</b> March 2024  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>EW8 / <i>Armored Engineer Vehicles</i> |

**D. Acquisition Strategy**

The Assault Breacher Vehicle (ABV) Remote Control System (RCS) program is pursuing prototype development and testing strategy with one vendor to provide an RCS materiel solution for production and integration into the ABV system. Anniston Army Depot (ANAD) previously refurbished 3 ABV assets for prototype development and testing. The ABV RCS prototype will be developed and refined through prototype test and User Jury events. Successful completion of prototype testing will be used as the entrance criteria for a follow-on development contract award. Under this contract, test assets will be developed with test commencing in 4th quarter FY25 and early user test in FY26. Upon successful completion of developmental testing, the program will execute a Low Rate Initial Production (LRIP) contract for production assets in FY27. First unit equipped is projected in FY28.

The current Army Procurement Objective (APO) is 36 for ABV RCS kits.

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army |                        |                                   |             |  |            |         |            |                                 |            |             |            | Date: March 2024 |                  |            |                          |
|--|------------------------|-----------------------------------|-------------|--|------------|---------|------------|---------------------------------|------------|-------------|------------|------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity                          |                        |                                   |             | R-1 Program Element (Number/Name)                        |            |         |            | Project (Number/Name)           |            |             |            |                  |                  |            |                          |
| 2040 / 4   |                        |                                   |             | PE 0603804A / Logistics and Engineer Equipment - Adv Dev |            |         |            | EW8 / Armored Engineer Vehicles |            |             |            |                  |                  |            |                          |
| <b>Management Services (\$ in Millions)</b>            |                        |                                   |             | FY 2023  |            | FY 2024 |            | FY 2025 Base                    |            | FY 2025 OCO |            | FY 2025 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location    | Prior Years | Cost   | Award Date | Cost    | Award Date | Cost                            | Award Date | Cost        | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| ABV RCS Matrix Functional Support                      | MIPR                   | Various : Various                 | 2.509       | 1.141  | Nov 2022   | 0.863   | Nov 2023   | 1.350                           | Oct 2024   | -           |            | 1.350            | 0.000            | 5.863      | -                        |
| <b>Subtotal</b>  |                        |                                   | 2.509       | 1.141  |            | 0.863   |            | 1.350                           |            | -           |            | 1.350            | 0.000            | 5.863      | N/A                      |
| <b>Product Development (\$ in Millions)</b>            |                        |                                   |             | FY 2023  |            | FY 2024 |            | FY 2025 Base                    |            | FY 2025 OCO |            | FY 2025 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location    | Prior Years | Cost   | Award Date | Cost    | Award Date | Cost                            | Award Date | Cost        | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| ABV RCS Prototype Development and Fabrication          | C/TBD                  | TBD : TBD                         | 2.835       | 0.606  | Apr 2023   | -       |            | -                               |            | -           |            | -                | 0.000            | 3.441      | -                        |
| ABV RCS Refurbishment of ABV Assets                    | MIPR                   | Anniston Army Depot : Anniston AL | 5.438       | 3.018  | Mar 2023   | -       |            | -                               |            | -           |            | -                | 0.000            | 8.456      | -                        |
| ABV RCS Shipping                                       | TBD                    | TBD : TBD                         | 0.020       | 0.014  | Jul 2023   | 0.300   | Jul 2024   | 0.300                           | Oct 2024   | -           |            | 0.300            | 0.000            | 0.634      | -                        |
| ABV RCS Depot Support                                  | RO                     | ANAD : Anniston Army Depot        | -           | 0.229  | Jul 2023   | 0.250   | Mar 2024   | 0.200                           | Oct 2024   | -           |            | 0.200            | 0.000            | 0.679      | -                        |
| ABV RCS Logistics/ Training Development                | TBD                    | Contrator/ILSC : Ann Arbor/Warren | -           | -  |            | -       |            | 0.570                           | Oct 2024   | -           |            | 0.570            | 0.000            | 0.570      | -                        |
| ABV RCS Development Contract Award                     | TBD                    | Cybernet : Ann Arbor              | -           | -  |            | -       |            | 5.500                           | Oct 2024   | -           |            | 5.500            | 0.000            | 5.500      | -                        |
| <b>Subtotal</b>  |                        |                                   | 8.293       | 3.867  |            | 0.550   |            | 6.570                           |            | -           |            | 6.570            | 0.000            | 19.280     | N/A                      |
| <b>Test and Evaluation (\$ in Millions)</b>            |                        |                                   |             | FY 2023  |            | FY 2024 |            | FY 2025 Base                    |            | FY 2025 OCO |            | FY 2025 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location    | Prior Years | Cost   | Award Date | Cost    | Award Date | Cost                            | Award Date | Cost        | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| ABV RCS Test & Evaluation                              | MIPR                   | ATC : Aberdeen, MD                | -           | 1.894  | Jul 2023   | 3.657   | Nov 2023   | 2.151                           | Mar 2025   | -           |            | 2.151            | 0.000            | 7.702      | -                        |
| ABV RCS User Jury                                      | TBD                    | TBD : TBD                         | -           | -  |            | 0.100   | Feb 2024   | -                               |            | -           |            | -                | 0.000            | 0.100      | -                        |
| <b>Subtotal</b>  |                        |                                   | -           | 1.894  |            | 3.757   |            | 2.151                           |            | -           |            | 2.151            | 0.000            | 7.802      | N/A                      |



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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b> |   | <b>Date:</b> March 2024  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4             | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>EW8 / <i>Armored Engineer Vehicles</i> |

| Event Name                         | FY 2023    |   |   |   | FY 2024    |   |   |   | FY 2025    |   |   |   | FY 2026    |   |   |   | FY 2027    |   |   |   | FY 2028    |   |   |   | FY 2029 |   |   |   |
|------------------------------------|------------|---|---|---|------------|---|---|---|------------|---|---|---|------------|---|---|---|------------|---|---|---|------------|---|---|---|---------|---|---|---|
|                                    | 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 |
| ABV RCS Prototype Development      | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS User Jury (First)          | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS User Jury (Second)         | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Overhaul/ Refurb           | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS RCM Maintenance Planning   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Prototype Test             | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Development Contract Award | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Dev/Test Asset Build       | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Logistics Development      | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Training Development       | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Developmental Test         | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Early User Test            | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |            |   |   |   |         |   |   |   |
| ABV RCS Design Updates             | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   | [Redacted] |   |   |   |         |   |   |   |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b> |   | <b>Date:</b> March 2024  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4             | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>EW8 / <i>Armored Engineer Vehicles</i> |

| Event Name                            | FY 2023 |   |   |   | FY 2024 |   |   |   | FY 2025 |   |   |   | FY 2026 |   |   |   | FY 2027 |   |   |   | FY 2028 |   |   |   | FY 2029 |   |   |   |  |
|---------------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
|                                       | 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 |  |
| ABV RCS LRIP Award                    |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   | 4       |   |   |   |         |   |   |   |         |   |   |   |  |
| ABV RCS LRIP Award                    |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |  |
| ABV RCS Production                    |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |  |
| ABV RCS Production Qualification Test |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |  |
| ABV RCS Fieldings                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |  |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2025 Army</b> |   | <b>Date: March 2024</b>  |
| <b>Appropriation/Budget Activity</b><br>2040 / 4              | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>EW8 / <i>Armored Engineer Vehicles</i> |

Schedule Details

| Events                                  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| ABV RCS P Spec Development              | 1       | 2020 | 4       | 2021 |
| ABV RCS Request for Prototype Proposals | 1       | 2022 | 1       | 2022 |
| ABV Overhaul (Qty of 2)                 | 4       | 2021 | 2       | 2022 |
| ABV RCS Prototype Source Selection      | 2       | 2022 | 2       | 2022 |
| ABV RCS Prototype OTA Award             | 3       | 2022 | 3       | 2022 |
| ABV RCS Prototype Development           | 3       | 2022 | 2       | 2024 |
| ABV RCS User Jury (First)               | 3       | 2023 | 3       | 2023 |
| ABV RCS User Jury (Second)              | 3       | 2024 | 3       | 2024 |
| ABV RCS Overhaul/ Refurb                | 1       | 2023 | 2       | 2024 |
| ABV RCS RCM Maintenance Planning        | 1       | 2023 | 1       | 2024 |
| ABV RCS Prototype Test                  | 2       | 2024 | 4       | 2024 |
| ABV RCS Development Contract Award      | 1       | 2025 | 1       | 2025 |
| ABV RCS Dev/Test Asset Build            | 1       | 2025 | 4       | 2025 |
| ABV RCS Logistics Development           | 1       | 2025 | 2       | 2027 |
| ABV RCS Training Development            | 1       | 2025 | 2       | 2027 |
| ABV RCS Developmental Test              | 3       | 2025 | 4       | 2026 |
| ABV RCS Early User Test                 | 3       | 2026 | 4       | 2026 |
| ABV RCS Design Updates                  | 4       | 2026 | 2       | 2027 |
| ABV RCS LRIP Award                      | 1       | 2027 | 1       | 2027 |
| ABV RCS Production                      | 1       | 2027 | 1       | 2031 |
| ABV RCS Production Qualification Test   | 2       | 2027 | 4       | 2027 |
| ABV RCS Fieldings                       | 4       | 2028 | 4       | 2030 |

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Army **Date:** March 2024

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| <b>Appropriation/Budget Activity</b><br>2040 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>G11 / Adv Elec Energy Con Ad |
|--|--|--|

| COST (\$ in Millions)       | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|-----------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| G11: Adv Elec Energy Con Ad | -           | 15.000  | -       | -            | -           | -             | -       | -       | -       | -       | 0.000            | 15.000     |
| Quantity of RDT&E Articles  | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       |                  |            |

**Note**  
This project is a Congressional Interest Item

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

As the DoD's Lead Standardization Activity for Tactical Electric Power (TEP), Project Manager Expeditionary Energy & Sustainment Systems (PM E2S2) matures and integrates technology that will improve the next generation of standard tactical power sources in support of all Services. It supports technical maturation of TEP systems that will extend Army operational mission reach and duration in support of the Army Operating Concept and Multi-Domain Battle.

Funding supports modernization of the current Tactical Electric Power capability with technology insertions including, but not limited to hybrid capabilities, light-weight power solutions, vehicle/tactical microgrid interoperability and Tactical Microgrid Standards (TMS). Funding also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment an operational energy concepts. This project is a Congressional Interest Item. Congressionally provided funds will support analysis and planning for potential transition to the Army of the mobile micro-reactor prototype and capability.

G11 / Adv Elec Energy Con Ad has no FY 2025 funding request.

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

|  | FY 2023 | FY 2024 |
|--|---------|---------|
| <b>Congressional Add:</b> Lightweight Portable Power   | 3.000   | -       |
| <b>FY 2023 Accomplishments:</b> FY23 congressional funds to be executed on the final development of a lightweight, portable power generation system.             |         |         |
| <b>Congressional Add:</b> Mobile micro-reactor program   | 12.000  | -       |
| <b>FY 2023 Accomplishments:</b> FY23 congressional funds to be executed in the analysis to support the potential transition of the mobile micro-reactor program. |         |         |
| <b>Congressional Adds Subtotals</b>  | 15.000  | -       |

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

| Line Item                   | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|-----------------------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| • 194: Engine Driven Gen Ed | 24.475  | 12.806  | 11.865       | -           | 11.865        | 6.995   | 3.132   | 3.207   | 3.239   | 0.000            | 65.719     |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army |   | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>2040 / 4                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>G11 / <i>Adv Elec Energy Con Ad</i> |

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

| <b>Line Item</b>                                 | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025<br/>Base</b> | <b>FY 2025<br/>OCO</b> | <b>FY 2025<br/>Total</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b> | <b>FY 2029</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b> |
|--|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| • MA9800: <i>Generators And Associated Equip</i> | 112.689        | 78.364         | 81.540                  | -                      | 81.540                   | 83.041         | 96.266         | 95.808         | 96.091         | Continuing                  | Continuing        |

**Remarks**

**D. Acquisition Strategy**

Complete advanced development pre-Milestone B technology assessments and analysis, and transition products to Engineering and Manufacturing Development (EMD) phase (Milestone B) and subsequent transition to production (Milestone C). Support concept development and demonstration efforts. Products and technologies supported include tactical power and energy sources, alternative/renewable energy systems, power distribution components, and power management and distribution control systems. Perform analysis of Operational Energy related impacts to future development programs to better direct United States Army Combat Capabilities Development Command (CCDC) efforts.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army** **Date:** March 2024

|  |  |  |
|--|--|--|
| <b>Appropriation/Budget Activity</b><br>2040 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / Logistics and Engineer Equipment - Adv Dev | <b>Project (Number/Name)</b><br>G11 / Adv Elec Energy Con Ad |
|--|--|--|

| <b>Management Services (\$ in Millions)</b> |                        |                                     |             | FY 2023 |            | FY 2024 |            | FY 2025 Base |            | FY 2025 OCO |            | FY 2025 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          |                  |            |                          |
| Mobile micro-reactor program                | Various                | OCE; RTI : Various                  | -           | 1.169   | Sep 2023   | -       |            | -            |            | -           |            | -             | 0.000            | 1.169      | -                        |
| Lightweight portable power generation       | Various                | C5ISR : Aberdeen Proving Ground, MD | -           | 0.012   | Aug 2023   | -       |            | -            |            | -           |            | -             | 0.000            | 0.012      | -                        |
| <b>Subtotal</b>                             |                        |                                     | -           | 1.181   |            | -       |            | -            |            | -           |            | -             | 0.000            | 1.181      | N/A                      |

| <b>Product Development (\$ in Millions)</b> |                        |   |             | FY 2023 |            | FY 2024 |            | FY 2025 Base |            | FY 2025 OCO |            | FY 2025 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          |                  |            |                          |
| Lightweight portable power generation       | Various                | C5ISR : Aberdeen Proving Ground, MD   | 12.421      | 2.988   | Sep 2023   | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | Continuing               |
| Mobile micro-reactor program                | Various                | Idaho National Labs; Air Force Civil Engineering Cmd : Idaho Falls, ID; Tyndall AF Base, FL | -           | 10.831  | Sep 2023   | -       |            | -            |            | -           |            | -             | 0.000            | 10.831     | -                        |
| <b>Subtotal</b>                             |                        |   | 12.421      | 13.819  |            | -       |            | -            |            | -           |            | -             | Continuing       | Continuing | N/A                      |

|                            | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> |             | 12.421  | 15.000  | -            | -           | -             | Continuing       | Continuing | N/A                      |

**Remarks**

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b> |   | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>2040 / 4             | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>G11 / <i>Adv Elec Energy Con Ad</i> |

| Event Name  | FY 2023 |   |   |   | FY 2024 |   |   |   | FY 2025 |   |   |   | FY 2026 |   |   |   | FY 2027 |   |   |   | FY 2028 |   |   |   | FY 2029 |   |   |   |
|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|   | 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 |
| Lightweight portable power                                  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Modeling and development of lightweight portable power      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Mobile micro-reactor program                                |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Planning and Analysis of MMPP technologies and applications |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army |   | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>2040 / 4              | <b>R-1 Program Element (Number/Name)</b><br>PE 0603804A / <i>Logistics and Engineer Equipment - Adv Dev</i> | <b>Project (Number/Name)</b><br>G11 / <i>Adv Elec Energy Con Ad</i> |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| Lightweight portable power                                  | 2       | 2021 | 4       | 2024 |
| Modeling and development of lightweight portable power      | 2       | 2021 | 4       | 2024 |
| Mobile micro-reactor program                                | 3       | 2023 | 4       | 2024 |
| Planning and Analysis of MMPP technologies and applications | 3       | 2023 | 4       | 2024 |