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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

| | |
|--|---|
| Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i> | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> |
|--|---|

| COST (\$ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | - | 56.624 | 30.840 | 4.243 | - | 4.243 | 2.216 | 7.684 | 7.686 | 7.761 | 0.000 | 117.054 |
| DX5: <i>Electronic Warfare And Management Tool</i> | - | 13.910 | 16.813 | 2.063 | - | 2.063 | - | 6.040 | 6.041 | 6.100 | 0.000 | 50.967 |
| DX6: <i>Multi-Function Electronic Warfare (MFEW)</i> | - | 40.596 | 12.020 | - | - | - | - | - | - | - | 0.000 | 52.616 |
| VS6: <i>Integrated Electronic Warfare Systems</i> | - | 2.118 | 2.007 | 2.180 | - | 2.180 | 2.216 | 1.644 | 1.645 | 1.661 | 0.000 | 13.471 |

A. Mission Description and Budget Item Justification

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of Electronic Warfare Planning and Management Tool (EWPMT) program.

This Program Element (PE) encompasses engineering and manufacturing development for tactical Electronic Warfare (EW). The Integrated Electronic Warfare System (IEWS) is a capability set that integrates electronic attack, protect and support functions to dramatically improve the ability to seize, retain, and exploit an advantage within the electromagnetic spectrum (EMS). It is based on a modular, scalable and open architecture to allow Army Brigade Combat Team (BCT) and Joint Force Commander's to tailor capability responses against a variety of EW threats/scenarios.

The IEWS capability set is structured along four program lines of effort: 1) Project DX5 Electronic Warfare Planning and Management Tools (EWPMT), 2) Project DX6 Multi-Function EW (MFEW), 3) Project VS6 Counter Radio-Controlled Improvised Explosive Devices (RCIED) Electronic Warfare (CREW) which provides current defensive electronic attack capability.

Project DX5 - This funding line is a key enabler of the Army Modernization Priorities, APNT CFT and Network CFT, in support of the EWPMT which is the Commander's tool to control, manage, and dominate the EMS and Cyber Domains. EWPMT will provide the ability to conduct remote control & management of EW assets to execute offensive and defensive Electronic Attack, EW targeting and enable maneuver by synchronizing EW and Spectrum Management Operations (SMO) across Intelligence, Operations, and Signals to successfully execute Multi-Domain Operations (MDO). As a Commander's tool, EWPMT is predominantly utilized by the Cyber Electromagnetic Activities (CEMA) element's Electronic Warfare Officers (EWO) and Electromagnetic Spectrum Managers (ESM) for mission planning, access to national and strategic sensors and data repositories, as well as the synchronization of EW and SIGINT enabled platforms.

Project DX6 - MFEW-AL is the Army's only program providing tactical Commanders with deep look, organic, airborne, offensive electronic warfare (EW), empowering Commanders to shape the Electromagnetic Spectrum (EMS) to their advantage. The MFEW Air Large system will provide: 1) Offensive Electronic Attack (OEA) - Non-Kinetic Fires capability with the intent of denying, degrading, or disrupting enemy communications capability and non-communications emitters; 2) Electronic Warfare Support (ES) - Capability to search, intercept, identify, and locate or localize sources of intentional and unintentional radiated electromagnetic (EM) energy for the

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| Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i> | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> |
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purpose of immediate threat recognition, targeting, planning, and execution of future operations; 3) Dissemination of Military Information Support Operations (MISO) products; and 4) Support of Offensive Cyber Operations (OCO) and Multi-Domain Operations.

Project VS6 - Counter Radio Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW) provides protection of ground forces operating in vehicle convoys, single vehicles and fixed locations in operational theaters which enables freedom of movement across the depth and breadth of the operational environment. Current CREW systems are programmable with techniques to mitigate emerging threats. In order to keep pace with the threat evolution, development efforts will provide fielded CREW systems as well as other Electronic Warfare (EW) systems with techniques that mitigate the range of threats as required. These development efforts may include development of new techniques, integration of existing techniques, as well as hardware and software development and integration in order to pace the threat.

| B. Program Change Summary (\$ in Millions) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 56.624 | 30.840 | 0.000 | - | 0.000 |
| Current President's Budget | 56.624 | 30.840 | 4.243 | - | 4.243 |
| Total Adjustments | 0.000 | 0.000 | 4.243 | - | 4.243 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Adjustments to Budget Years | - | - | 4.243 | - | 4.243 |

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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|--|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|---|-------------------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2023 Army | | | | | | | | | | Date: April 2022 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | | | | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> | | | |
| COST (\$ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
| <i>DX5: Electronic Warfare And Management Tool</i> | - | 13.910 | 16.813 | 2.063 | - | 2.063 | - | 6.040 | 6.041 | 6.100 | 0.000 | 50.967 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities, APNT CFT and Network CFT, in support of the Electronic Warfare Planning and Management Tool (EWPMT) which is the Commander's tool to control, manage, and dominate the Electromagnetic Spectrum (EMS) and Cyber Domains. EWPMT will provide the ability to conduct remote control & management of Electronic Warfare (EW) assets to execute offensive and defensive Electronic Attack, EW targeting and enable maneuver by synchronizing EW and Spectrum Management Operations (SMO) across Intelligence, Operations, and Signals to successfully execute Multi-Domain Operations (MDO). As a Commander's tool, EWPMT is predominantly utilized by the Cyber Electromagnetic Activities (CEMA) element's Electronic Warfare Officers (EWO) and Electromagnetic Spectrum Managers (ESM) for mission planning, access to national and strategic sensors and data repositories, as well as the synchronization of EW and SIGINT enabled platforms.

Justification:
Fiscal Year (FY) 2023 Base funds in the amount of \$2.063 million will fund EWPMT Version I relevancy to include sensor, tactical operations center (TOC), network, and Soldier Touch Points (STPs).

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

| | FY 2021 | FY 2022 | FY 2023 |
|--|----------------|----------------|----------------|
| Title: EWPMT | 13.910 | 16.199 | 2.063 |
| Description: The Electronic Warfare Planning Management Tool (EWPMT) software application provides Electronic Warfare and Spectrum Management soldiers the ability to plan, coordinate, integrate, and synchronize Cyber Electronic Magnetic Activities (CEMA) across all Warfighting Functions (WfF). EWPMT incorporates Electronic Attack (EA), Electronic Protection (EP), Electronic Support (ES), and Spectrum management functions in direct support of CEMA elements across all Army echelons. | | | |
| FY 2022 Plans: EWPMT Version I relevancy to include sensor, TOC, and network. Participate in user engagements to include Soldier Touch Points (STPs) events and evaluations. Further implementation of JICD 4.2 standards allowing for further sensor integration and a concentrated effort to improve usability and stability of EWPMT in preparation for FDD. | | | |
| FY 2023 Plans: Minor EWPMT Version I relevancy to include sensor, TOC, network, and STPs. | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2023 Army | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> |

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2021 | FY 2022 | FY 2023 |
|---|----------------|----------------|----------------|
| Decrease due to reduced capability development and testing while the Army continues to evaluate current and determines future requirements. | | | |
| Title: FY22 SIBR/STTR Transfer | - | 0.614 | - |
| FY 2022 Plans: Funding transferred in accordance with Title 15 USC 2638 | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 2638 | | | |
| Accomplishments/Planned Programs Subtotals | 13.910 | 16.813 | 2.063 |

| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Line Item | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
| • K00002: <i>EW Planning & Management Tools (EWPMT)</i> | 7.849 | 0.783 | 0.000 | - | 0.000 | 9.287 | 9.387 | 3.237 | 3.235 | 0.000 | 33.778 |

Remarks
EWPMT Support which includes logistics and travel.

D. Acquisition Strategy
EWPMT is an Automated Information System (AIS) that follows an evolutionary acquisition strategy utilizing Capability Drop (CD) requirement documents that enable rapid development and integration of new Electronic Warfare and Spectrum Management capabilities. The strategy allows for timely response and delivery based on changing threat, technology and in support of Multi-Domain Operations (MDO).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

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|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> |
|--|---|---|

| Management Services (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| PMO Staff/Travel | Various | PM Electronic Warfare & Cyber : Aberdeen Proving Ground, MD | 13.053 | 0.861 | Mar 2021 | 0.653 | Mar 2022 | 0.555 | Mar 2023 | - | | 0.555 | Continuing | Continuing | - |
| SBIR / STTR Transfer | TBD | TBD : TBD | 0.604 | - | | 0.614 | Mar 2022 | - | | - | | - | 0.000 | 1.218 | - |
| Subtotal | | | 13.657 | 0.861 | | 1.267 | | 0.555 | | - | | 0.555 | Continuing | Continuing | N/A |

| Product Development (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| EMD Contract - EWPMT CD1 | C/IDIQ | Raytheon : Fort Wayne, IN | 18.200 | - | | - | | - | | - | | - | 0.000 | 18.200 | 18.200 |
| EMD Contract - EWPMT CD2 | C/IDIQ | Raytheon : Fort Wayne, IN | 24.359 | - | | - | | - | | - | | - | 0.000 | 24.359 | 24.359 |
| EMD Contract - EWPMT CD3 | C/IDIQ | Raytheon : Fort Wayne, IN | 26.380 | - | | - | | - | | - | | - | 0.000 | 26.380 | 26.380 |
| EMD Contract - EWPMT CD4 | C/IDIQ | Raytheon : Fort Wayne, IN | 22.928 | 7.707 | Nov 2020 | - | | - | | - | | - | 0.000 | 30.635 | 30.635 |
| EMD Contract- EWPMT system integration, relevancy, and STPs | C/IDIQ | Raytheon : Fort Wayne, IN | - | 0.674 | Jan 2021 | 8.823 | Dec 2021 | - | | - | | - | 0.000 | 9.497 | 14.953 |
| Contract - EWPMT fielding, training, support, and product improvement | C/TBD | TBD : TBD | - | - | | - | | 0.050 | Jun 2023 | - | | 0.050 | 0.000 | 0.050 | - |
| Subtotal | | | 91.867 | 8.381 | | 8.823 | | 0.050 | | - | | 0.050 | 0.000 | 109.121 | N/A |

Remarks
Contract - EWPMT fielding, training, support, and product improvement.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> |
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| Support (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| EWPMT Technical and Engineering Support | Option/CPFF | Various : Various | 34.002 | 2.934 | Dec 2020 | 6.463 | Dec 2021 | 1.458 | Dec 2022 | - | | 1.458 | Continuing | Continuing | - |
| Subtotal | | | 34.002 | 2.934 | | 6.463 | | 1.458 | | - | | 1.458 | Continuing | Continuing | N/A |

Remarks
Fiscal Year (FY) 2023 RDT&E funding of \$2.063 million funds minor EWPMT Version I relevancy to include sensor, TOC, network, and STPs.

| Test and Evaluation (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| EWPMT Test Support | MIPR | Various : Various | 6.510 | 1.734 | Dec 2020 | 0.260 | Dec 2021 | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 6.510 | 1.734 | | 0.260 | | - | | - | | - | Continuing | Continuing | N/A |

| | | | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--|--|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| Project Cost Totals | | | 146.036 | 13.910 | 16.813 | 2.063 | - | 2.063 | Continuing | Continuing | N/A |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> |

| Event Name | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 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 |
| EWPMT Contract | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development for CD4 and Test for EWPMT Increment I | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial Operational Test & Evaluation (IOT&E) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EWPMT Integration, Relevancy, and Soldier Touch Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Full Deployment Decision (FDD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Full Operational Capability (FOC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NET/NEF COMPO 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NET/NEF COMPOs 2 & 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX5 / <i>Electronic Warfare And Management Tool</i> |

Schedule Details

| Events | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| EWPMT Contract | 1 | 2014 | 4 | 2023 |
| Development and Test for CD1 | 4 | 2014 | 3 | 2016 |
| Test CD1 (Government Confidence test) | 2 | 2016 | 2 | 2016 |
| Limited Deployment Decision for CD1 | 4 | 2016 | 4 | 2016 |
| CD1 Fielding | 4 | 2016 | 3 | 2018 |
| Initial Operational Capability (IOC) | 1 | 2017 | 1 | 2017 |
| Development and Test for CD2 | 4 | 2016 | 4 | 2018 |
| Development and Test for CD3 | 3 | 2018 | 3 | 2020 |
| Development for CD4 and Test for EWPMT Increment I | 4 | 2019 | 4 | 2021 |
| Initial Operational Test & Evaluation (IOT&E) | 3 | 2021 | 4 | 2021 |
| EWPMT Integration, Relevancy, and Soldier Touch Points | 4 | 2021 | 4 | 2023 |
| Full Deployment Decision (FDD) | 4 | 2022 | 4 | 2022 |
| Full Operational Capability (FOC) | 4 | 2025 | 4 | 2025 |
| NET/NEF COMPO 1 | 1 | 2024 | 4 | 2026 |
| NET/NEF COMPOS 2 & 3 | 1 | 2027 | 4 | 2027 |

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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX6 / <i>Multi-Function Electronic Warfare (MFEW)</i> |
|--|---|---|

| COST (\$ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| DX6: <i>Multi-Function Electronic Warfare (MFEW)</i> | - | 40.596 | 12.020 | - | - | - | - | - | - | - | 0.000 | 52.616 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

MFEW-AL is the Army's only program providing tactical Commanders with deep look, organic, airborne, offensive electronic warfare (EW), empowering Commanders to shape the Electromagnetic Spectrum (EMS) to their advantage. The MFEW Air Large system will provide: 1) Offensive Electronic Attack (OEA) - Non-Kinetic Fires capability with the intent of denying, degrading, or disrupting enemy communications capability and non-communications emitters; 2) Electronic Warfare Support (ES) - Capability to search, intercept, identify, and locate or localize sources of intentional and unintentional radiated electromagnetic (EM) energy for the purpose of immediate threat recognition, targeting, planning, and execution of future operations; 3) Dissemination of Military Information Support Operations (MISO) products; and 4) Support of Offensive Cyber Operations (OCO) and Multi-Domain Operations.

Justification:

Fiscal Year 2023 has no funding request.

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

| | FY 2021 | FY 2022 | FY 2023 |
|--|---------|---------|---------|
| <p>Title: Multi-Function Electronic Warfare (MFEW) Air Large</p> <p>Description: MFEW-Air Large is an airborne Electronic Warfare payload to be integrated onto the Gray Eagle Unmanned Aerial Vehicle to provide offensive Electronic Attack (EA) and Electronic Warfare Support (ES) capability to the BCT.</p> <p>FY 2022 Plans: Complete EMD activities, to include 4 EMD articles, conduct flight testing and a LUT. Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR).</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: No planned RDT&E funded activities in (FY) 2023.</p> | 40.596 | 11.581 | - |
| <p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> | - | 0.439 | - |

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| | | | |
|---|----------------|----------------|----------------|
| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2021 | FY 2022 | FY 2023 |
| Funding transferred in accordance with Title 15 USC ?638 | | | |
| Accomplishments/Planned Programs Subtotals | 40.596 | 12.020 | - |

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

| Line Item | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|---|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| • B05000: <i>Multi-Function Electronic Warfare (MFEW) Systems</i> | 8.669 | - | 3.060 | - | 3.060 | - | - | - | - | 0.000 | 11.729 |

Remarks

D. Acquisition Strategy

MFEW Air has employed a tailored acquisition approach to rapidly deliver capability to the field. The MFEW Air Large employed a competitive acquisition approach for the Engineering & Manufacturing Development (EMD) phase of the program. The development is using a modular open-system approach to rapidly deliver an initial airborne Electronic Warfare (EW) capability to the Army using the Consortium for Command, Control, Communications, and Computer Technologies (C5) Other Transaction Agreement (OTA). Phase 1 will build two (2) MFEW-AL systems to demonstrate select Offensive Electronic Attack (OEA) and Electronic Warfare Support (ES) capabilities. Phase 2 will build four (4) EMD systems for testing, evaluation, qualification and certification, verification of OEA, ES, Military Information Support Operations (MISO) and Offensive Cyber Operations (OCO) performance capabilities, and flight testing.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX6 / <i>Multi-Function Electronic Warfare (MFEW)</i> |
|--|---|---|

| Management Services (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| Program Management Office Support - MFEW Air | Various | PM Electronic Warfare & Cyber (PM EW&C) : Aberdeen Proving Ground, MD | 1.704 | 0.040 | Jan 2021 | 0.200 | Jan 2022 | - | | - | | - | 0.000 | 1.944 | - |
| FY 2020 SBIR/STTR Transfer | TBD | Various : Various | 0.131 | - | | - | | - | | - | | - | 0.000 | 0.131 | - |
| FY22 SBIR/STTR Transfer | TBD | Various : Various | - | - | | 0.439 | | - | | - | | - | 0.000 | 0.439 | - |
| Subtotal | | | 1.835 | 0.040 | | 0.639 | | - | | - | | - | 0.000 | 2.514 | N/A |

| Product Development (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| MFEW OTA Prototype Design&Development Contract | C/FFP | C5 Consortium OTA : Acquisition Contracting Center-New Jersey | 25.100 | - | | - | | - | | - | | - | 0.000 | 25.100 | - |
| Command and Control Development Contract | C/CPFF | EWPMT / APP EW : Aberdeen Proving Ground, MD | 0.457 | - | | - | | - | | - | | - | 0.000 | 0.457 | - |
| MFEW Techniques and risk reduction activities | C/CPFF | Various (JHU, GTRI, MITRE, etc) : Aberdeen Proving Ground, MD | 1.759 | - | | - | | - | | - | | - | 0.000 | 1.759 | - |
| MFEW OTA EMD Contract | C/FFP | C5 Consortium OTA : Acquisition Contracting Center-New Jersey | 32.366 | 35.313 | Feb 2021 | 5.367 | Nov 2021 | - | | - | | - | 0.000 | 73.046 | - |
| Gray Eagle Integration | Option/CPFF | General Atomics : San Diego, CA | 2.261 | - | | - | | - | | - | | - | 0.000 | 2.261 | - |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

| | | |
|--|---|---|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX6 / <i>Multi-Function Electronic Warfare (MFEW)</i> |
|--|---|---|

| Product Development (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| Engineering & Logistics Development | SS/CPFF | Lockheed Martin Corporation : Owego, NY | - | 3.907 | Jan 2021 | 0.411 | Jan 2022 | - | | - | | - | 0.000 | 4.318 | - |
| Subtotal | | | 61.943 | 39.220 | | 5.778 | | - | | - | | - | 0.000 | 106.941 | N/A |

| Support (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| Contractor Engineering - MFEW Air | C/CPFF | Various : Aberdeen Proving Ground, MD | 3.389 | 0.307 | Dec 2020 | - | | - | | - | | - | 0.000 | 3.696 | - |
| Matrix Engineering - MFEW Air | Various | Various : Aberdeen Proving Ground, MD | 3.050 | 1.029 | Dec 2020 | 1.203 | Dec 2021 | - | | - | | - | 0.000 | 5.282 | - |
| Subtotal | | | 6.439 | 1.336 | | 1.203 | | - | | - | | - | 0.000 | 8.978 | N/A |

| Test and Evaluation (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| Test range and test support | Various | Yuma Proving Grounds : Yuma, AZ | 2.246 | - | | 1.900 | Jan 2022 | - | | - | | - | 0.000 | 4.146 | - |
| Modeling & Simulation / Test Infrastructure | Various | Various : Aberdeen Proving Ground, MD | 10.790 | - | | - | | - | | - | | - | 0.000 | 10.790 | - |
| Limited User Test | MIPR | Army Test Command : Aberdeen Proving Ground, MD | - | - | | 2.500 | Jan 2022 | - | | - | | - | 0.000 | 2.500 | - |
| Subtotal | | | 13.036 | - | | 4.400 | | - | | - | | - | 0.000 | 17.436 | N/A |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army | | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX6 / <i>Multi-Function Electronic Warfare (MFEW)</i> | |

| Event Name | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | |
|----------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 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 |
| MFEW Air OTA EMD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailored Milestone C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limited User Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFEW Air Production and Fielding | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) DX6 / <i>Multi-Function Electronic Warfare (MFEW)</i> |

Schedule Details

| Events | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Tailored Milestone B | 3 | 2018 | 3 | 2018 |
| MFEW Air OTA Award | 4 | 2018 | 4 | 2018 |
| MFEW Air OTA Prototype Design & Development | 4 | 2018 | 2 | 2020 |
| MFEW Air OTA EMD | 2 | 2020 | 4 | 2022 |
| Tailored Milestone C | 3 | 2021 | 3 | 2021 |
| Limited User Test | 4 | 2022 | 4 | 2022 |
| MFEW Air Production and Fielding | 3 | 2021 | 4 | 2026 |

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|--|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|--|-------------------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2023 Army | | | | | | | | | | Date: April 2022 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | | | | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> | | | |
| COST (\$ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
| VS6: <i>Integrated Electronic Warfare Systems</i> | - | 2.118 | 2.007 | 2.180 | - | 2.180 | 2.216 | 1.644 | 1.645 | 1.661 | 0.000 | 13.471 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

Counter Radio Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW) provides protection of ground forces operating in vehicle convoys, single vehicles and fixed locations in operational theaters which enables freedom of movement across the depth and breadth of the operational environment. Current CREW systems are programmable with techniques to mitigate emerging threats. In order to keep pace with the threat evolution, development efforts will provide fielded CREW systems as well as other Electronic Warfare (EW) systems with techniques that mitigate the range of threats as required. These development efforts may include development of new techniques, integration of existing techniques, as well as hardware and software development and integration in order to pace the threat.

Justification:

Fiscal Year (FY) 2023 Base funding in the amount of \$2.180 million funds the continued support of CREW systems as well as other EW systems with techniques that mitigate the range of threats as required. These efforts include development of new techniques, integration of existing techniques, as well as hardware and software enhancement and integration in order to pace the threat.

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

| | FY 2021 | FY 2022 | FY 2023 |
|---|----------------|----------------|----------------|
| Title: IEWS - CREW | 2.118 | 1.934 | 2.180 |
| Description: The Integrated Electronic Warfare System (IEWS) will provide multiple capabilities, to include but not limited to, Electronic Warfare Planning and Management Tool (EWPM), Multi-Function EW (MFEW), and Defensive Electronic Attack (DEA). The Army's only current Defensive Electronic Attack solution is Counter Radio Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW). | | | |
| FY 2022 Plans: Continue IEWS development of new techniques, integration of existing techniques, and hardware and software development and integration in order to pace the threat. Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR). | | | |
| FY 2023 Plans: Continue IEWS development of new techniques, integration of existing techniques, and hardware and software development and integration in order to pace the threat. | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2023 Army | | Date: April 2022 | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2021 | FY 2022 | FY 2023 |
| Increase of funding reflects the continued development of new techniques, integration of existing techniques, and hardware and software development. | | | | |
| Title: FY22 SBIR/STTR Transfer | | - | 0.073 | - |
| FY 2022 Plans: Funding transferred in accordance with Title 15 USC 2638 | | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 2638 | | | | |
| Accomplishments/Planned Programs Subtotals | | 2.118 | 2.007 | 2.180 |
| C. Other Program Funding Summary (\$ in Millions) | | | | |
| N/A | | | | |
| Remarks | | | | |
| D. Acquisition Strategy | | | | |
| VS6 funding supports hardware and software enhancement and integration to pace the threat and will leverage Other Government Agencies' competitively awarded contracts and task orders. | | | | |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

| | | |
|--|---|--|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> |
|--|---|--|

| Management Services (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| PMO Staff/Travel for EWPMT | Allot | PM Electronic Warfare & Cyber : Aberdeen Proving Ground, MD | 4.956 | - | | - | | - | | - | | - | 0.000 | 4.956 | - |
| Program and Technical Assistance support | C/CPFF | TBD : Aberdeen Proving Ground, MD | 3.789 | - | | - | | - | | - | | - | 0.000 | 3.789 | - |
| PMO Staff/Travel for CREW | Allot | PM Electronic Warfare & Cyber : Aberdeen Proving Ground, MD | 2.880 | 0.020 | Dec 2020 | 0.020 | Dec 2021 | 0.020 | Dec 2022 | - | | 0.020 | 0.000 | 2.940 | - |
| FY 2020 SBIR/STTR Transfer | TBD | Various : Various | 0.023 | - | | - | | - | | - | | - | 0.000 | 0.023 | - |
| FY22 SBIR/STTR Transfer | TBD | Various : Various | - | - | | 0.073 | | - | | - | | - | 0.000 | 0.073 | - |
| Subtotal | | | 11.648 | 0.020 | | 0.093 | | 0.020 | | - | | 0.020 | 0.000 | 11.781 | N/A |

| Product Development (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| EMD Contract - EWPMT | C/CPIF | SOTERA Defense Solutions Herndon, VA : RAYTHEON Fort Wayne, IN | 38.318 | - | | - | | - | | - | | - | 0.000 | 38.318 | - |
| IEWS Engineering and Development | MIPR | I2WD : Aberdeen Proving Ground, MD | 5.557 | 2.098 | Dec 2020 | 1.914 | Dec 2021 | 1.860 | Dec 2022 | - | | 1.860 | 0.000 | 11.429 | - |
| Risk Reduction Studies for MFEW | MIPR | Various : Various | 7.969 | - | | - | | - | | - | | - | 0.000 | 7.969 | - |
| Develop CREW H/W and S/W solutions | C/CPFF | SRC, Inc. : Syracuse, NY | 27.133 | - | | - | | - | | - | | - | 0.000 | 27.133 | - |
| Development of H/W and S/W for CREW and other EW systems | SS/CPFF | Various : Various | 4.118 | - | | - | | - | | - | | - | 0.000 | 4.118 | - |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

| | | |
|--|---|--|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> |
|--|---|--|

| Product Development (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| Subtotal | | | 83.095 | 2.098 | | 1.914 | | 1.860 | | - | | 1.860 | 0.000 | 88.967 | N/A |

| Support (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| MFEW Technical/ Engineering Support - Contractor | C/CPFF | GTRI : Atlanta, GA | 2.046 | - | | - | | - | | - | | - | 0.000 | 2.046 | - |
| Matrix Engineering Support | MIPR | CERDEC : Aberdeen Proving Ground, MD | 7.766 | - | | - | | - | | - | | - | 0.000 | 7.766 | - |
| EWPMT Architecture Study | MIPR | Various : Various | 1.194 | - | | - | | - | | - | | - | 0.000 | 1.194 | - |
| Engineering support | C/CPFF | Various : Various | 4.045 | - | | - | | - | | - | | - | 0.000 | 4.045 | - |
| FY 2019 MDAP Tax | TBD | FY 2019 Pending Rescission : FY 2019 Pending Rescission | 0.006 | - | | - | | - | | - | | - | 0.000 | 0.006 | - |
| Subtotal | | | 15.057 | - | | - | | - | | - | | - | 0.000 | 15.057 | N/A |

| Test and Evaluation (\$ in Millions) | | | | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 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 | | | |
| EWPMT Test support | MIPR | Various : TBD | 1.096 | - | | - | | - | | - | | - | 0.000 | 1.096 | - |
| Operational Assessment (OA) of DV4 systems | MIPR | Yuma Proving Ground : Yuma, AZ | 1.950 | - | | - | | - | | - | | - | 0.000 | 1.950 | - |
| Continuous evaluation of CREW Technologies | MIPR | Yuma Proving Ground Yuma, AZ : YPG, AZ | 1.718 | - | | - | | 0.300 | Dec 2022 | - | | 0.300 | 0.000 | 2.018 | - |
| Subtotal | | | 4.764 | - | | - | | 0.300 | | - | | 0.300 | 0.000 | 5.064 | N/A |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army | | | | | | | | Date: April 2022 | | | | | |
| Appropriation/Budget Activity 2040 / 5 | | | | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | | | | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> | | | | | |
| | Prior Years | FY 2021 | | FY 2022 | | FY 2023 Base | | FY 2023 OCO | | FY 2023 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | 114.564 | 2.118 | | 2.007 | | 2.180 | | - | | 2.180 | 0.000 | 120.869 | N/A |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army | | | Date: April 2022 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> | |

| Event Name | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 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 |
| Integrated Electronic Warfare System Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army **Date:** April 2022

| | | |
|--|---|--|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604270A / <i>Electronic Warfare Development</i> | Project (Number/Name) VS6 / <i>Integrated Electronic Warfare Systems</i> |
|--|---|--|

Schedule Details

| Events | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Integrated Electronic Warfare System Development | 2 | 2021 | 3 | 2026 |