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

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| Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support | R-1 Program Element (Number/Name) PE 0605712A / Support of Operational Testing |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

| 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 | - | 54.116 | 55.122 | 70.718 | - | 70.718 | 72.760 | 73.891 | 73.940 | 74.661 | 0.000 | 475.208 |
| 001: ATEC Joint Tests And Follow-On Test & Eval | - | 0.303 | 0.355 | - | - | - | - | - | - | - | 0.000 | 0.658 |
| V02: ATEC Activities | - | 53.813 | 54.767 | 70.718 | - | 70.718 | 72.760 | 73.891 | 73.940 | 74.661 | 0.000 | 474.550 |

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) provides resources to the United States (U.S.) Army Test and Evaluation Command (ATEC) to operate the Army's Operational Test Command (OTC). OTC conducts independent operational tests that provide significant data to Army decision-makers on key Army systems and concepts. This PE finances recurring costs for OTC that are essential for conducting realistic and continuous testing in the critical areas of equipment, doctrine, force design and training. These recurring costs include civilian pay, requirements for test support contracts, temporary duty, training, supplies and equipment. It also provides funding to the U.S. Army Futures Command to operate the Army Joint Test Element (JTE). JTE examines Joint Service, Combatant Command (COCOM) and Department of Defense (DoD) agencies' mission gaps, tactics and doctrine, resulting in the development of Tactics, Techniques and Procedures (TTP), Concept of Operations (CONOPS) and assessment documents. Products are developed through operational non-materiel solutions to urgent, specific, Joint Warfighter problems.

B. Program Change Summary (\$ in Millions)

| | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023 Base</u> | <u>FY 2023 OCO</u> | <u>FY 2023 Total</u> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 54.116 | 55.122 | 0.000 | - | 0.000 |
| Current President's Budget | 54.116 | 55.122 | 70.718 | - | 70.718 |
| Total Adjustments | 0.000 | 0.000 | 70.718 | - | 70.718 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Adjustments to Budget Years | - | - | 70.718 | - | 70.718 |

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 / 6 | | | | | R-1 Program Element (Number/Name) PE 0605712A / Support of Operational Testing | | | | Project (Number/Name) 001 / ATEC Joint Tests And Follow-On Test & Eval | | | |
| 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 |
| 001: ATEC Joint Tests And Follow-On Test & Eval | - | 0.303 | 0.355 | - | - | - | - | - | - | - | 0.000 | 0.658 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The Joint Modernization Command (JMC) plans and executes worldwide multi-echelon, joint and multi-national field experiments in support of the Army's modernization strategy enabling a multi-domain operations Aimpoint Force. This Project provides funding for the Joint Modernization Command - Aberdeen Proving Grounds (JMC-APG) which supports assessments of operational solutions to urgent, specific, Joint Warfighter problems through a short-term, rigorous experiment process. This support is principally through the AFC Experiment program. The office further manages Army resources in support of joint assessments. The objective of JMC-APG is to develop, in operational environments, methods for Warfighters to accomplish their missions more effectively with today's equipment, organizations, and doctrine. JMC-APG achieves this by evaluating new concepts for tactics, techniques, and procedures, and addressing Combatant Commanders' needs and issues in the joint military environments.

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

| | FY 2021 | FY 2022 | FY 2023 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| Title: Army Joint Test Element (JTE) Management Support | 0.303 | 0.355 | - |
| Description: Funds the civilian salaries and related non-labor requirements that support the JMC-APG. | | | |
| FY 2022 Plans: Will continue to fund civilian labor and non-labor requirements such as supplies and travel in support of JMC-APG initiatives, program support from remote joint test stations, and COCOM engagements. | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: Funding has decreased because Army Joint Test Element (JTE) Management Support will be transferred to the EE PEG under the VAWE Joint Experimentation Management Decision Package (MDEP) which falls under the Army Futures Command. | | | |
| Accomplishments/Planned Programs Subtotals | 0.303 | 0.355 | - |

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

N/A

Remarks

D. Acquisition Strategy

N/A

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|--------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Appropriation/Budget Activity 2040 / 6 | R-1 Program Element (Number/Name) PE 0605712A / Support of Operational Testing | Project (Number/Name) V02 / ATEC Activities |
|--------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------|

| 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 |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| V02: ATEC Activities | - | 53.813 | 54.767 | 70.718 | - | 70.718 | 72.760 | 73.891 | 73.940 | 74.661 | 0.000 | 474.550 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

Note
In FY23 there is a realignment of Test Technology Sustainment funding from APE 66560262C, Modeling and Simulation Instrumentation to APE 665712V02, Support of Operational Testing-ATEC Activities.

A. Mission Description and Budget Item Justification

This Project provides funding to the Army Test and Evaluation Command (ATEC) to operate the Operational Test Command (OTC) which conducts independent operational tests that provide significant data to Army decision makers on key systems in support of the Army's modernization priorities. These operational tests are required by public law (Title 10 USC 2399). This Project finances recurring costs for OTC that are essential to conduct realistic and continuous testing in the critical areas of equipment, doctrine, force design and training. These recurring costs include civilian pay, requirements for test support contracts, temporary duty, training, supplies and equipment.

OTC consists of four forward Test Directorates (Airborne and Special Operations Test Directorate, Fort Bragg, North Carolina; Air and Missile Defense Test Directorate, Fort Bliss, Texas; Fires Support Test Directorate, Fort Sill, Oklahoma; and the Intelligence Electronic Warfare Test Directorate, Fort Huachuca, Arizona) together with four additional Test Directorates (Aviation; Maneuver; Mission Command; Maneuver Support and Sustainment) and OTC Headquarters at Fort Hood, Texas. These activities support the development and fielding cycle of all Army acquisition programs including rapid fielding initiatives in support of the Army's modernization priorities. The primary mission of these test directorates is to perform detailed planning, execution, and reporting of Customer Tests, Early User Tests, Limited User Tests (LUT), Initial Operational Test and Evaluation (IOTE), and Follow-On Operational Tests (FOT) in support of Army Modernization. OTC also supports Army Futures Command's Soldier Touch Points and other early assessments of potential new systems the Army seeks to acquire in support of Army Modernization. Funding provides essential sustainment of models, simulations, and instrumentation for operational testing of airborne/aviation systems, mission command systems, fires systems, intelligence systems, real-time casualty assessment (RTCA), and common live-virtual-constructive (LVC) tools.

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

| | FY 2021 | FY 2022 | FY 2023 |
|----------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|
| Title: Operational Test Command Civilian Pay | 42.001 | 43.420 | 45.036 |
| Description: This funding supports the cost of civilian labor for OTC Program Budget Guidance (PBG) authorizations. | | | |
| FY 2022 Plans: Will continue to support the costs of civilian labor for OTC PBG authorizations. | | | |
| FY 2023 Plans: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2023 Army | | Date: April 2022 | | |
| Appropriation/Budget Activity 2040 / 6 | R-1 Program Element (Number/Name) PE 0605712A / Support of Operational Testing | Project (Number/Name) V02 / ATEC Activities | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2021 | FY 2022 | FY 2023 |
| Will continue to support the costs of civilian labor for OTC PBG authorizations. FY 2022 to FY 2023 Increase/Decrease Statement: Increase in funding is due to civilian pay raise assumptions. | | | | |
| Title: Operational Test Command Operations Support Description: OTC operational costs including: support contracts, temporary duty, training, supplies and equipment. FY 2022 Plans: Continue to support operational costs including support contracts, temporary duty, training, supplies and equipment. FY 2023 Plans: Continue to support operational costs including temporary duty, training, supplies, equipment, and support contracts that are required to conduct the operational test mission. Contractual support includes: test support requirements; information technology (IT) and network support and licensing; facilities maintenance and utilities; and technology modernization updates. FY 2022 to FY 2023 Increase/Decrease Statement: Increase in funding is due to inflation and projected increases in cost for non-pay and non-fuel purchases. | | 11.812 | 11.022 | 12.271 |
| Title: Test Technology Sustainment Description: This project sustains the capabilities to create a realistic multi-domain operational (MDO) test environment with modern threat effects, provide test monitoring and control, and data analysis. This project sustains the expertise to employ modeling and simulation tools and the expertise to adapt/integrate current Army training simulation capabilities and other tools to function with new Army systems and sustains OT-unique simulation and instrumentation systems. By sustaining the models and simulation tools and expertise, this project reduces test costs and the demand for Army test units by simulating tactical engagements, adjacent and higher headquarters units, mission command message traffic, and battlefield kinetic and non-kinetic effects. This project sustains video equipment, appended data collection devices, and embedded software used to collect and analyze system performance during test. The project also funds the technical expertise and hardware to sustain cyber security of OTC's technology capabilities; technology tools across OTC require Risk Management Framework (RMF) accreditation. FY 2023 Plans: OTC will sustain test capabilities to provide a realistic multi-domain operational environment with modern kinetic and non-kinetic threat effects for the following Army modernization efforts: Rapid Rigging and De-Rigging Air Delivery System (RRDAS), RRDAS Maintenance Evaluation/Technical Manual (ME/TM), Multipurpose Equipment Transport System, Patriot, Cargo Helicopter CH-47F Block II, Guided Multiple Launch Rocket System - Extended Range, Terminal High Altitude Area Defense (THAAD), THAAD Flight Test, SPIKE-NLOS (non-line-of-sight), Attack Helicopter AH-64V6.X Flight Test, Multi- functional Information | | - | - | 13.411 |

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| Appropriation/Budget Activity 2040 / 6 | R-1 Program Element (Number/Name) PE 0605712A / <i>Support of Operational Testi ng</i> | Project (Number/Name) V02 / ATEC Activities |

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2021 | FY 2022 | FY 2023 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| System, Family of Medium Tactical Vehicles, Future Vertical Lift CFT, Extended Range Cannon Artillery Increment 1C, Future Weapon Sight-Crew Served, Armored Multi-Purpose Vehicle, Abrams M1A2 System Enhancement Program (SEP), Assured Position Navigation and Timing, Robotic Combat Vehicles, Next Generation Squad Weapons, Command Post Computing Environment, Accessions Information Environment, Army Training Information System, Improved Forward Looking Infrared, Lower Tier Air and Missile Defense Sensor-Radar Set, Enhanced Electronic Automatic Activation Device, Mounted Computing Environment, Global Combat Support System, Mobile Airfield Damage Repair Kit, Modernized Radar Warning Receiver, Distributed Common Ground System - Army, Stryker 30mm Engineering Change Proposal, Mobile Protective Firepower, Precision Strike Missile, Project Convergence, the Synthetic Training Environment-CFT, and Cross-Functional Team Soldier-centered design events. Programs will align requirements with Army modernization priorities in support of the National Defense Strategy. FY 2022 to FY 2023 Increase/Decrease Statement: Increase in funding is due to realignment of Test Technology Sustainment funding from APE 66560262C, Modeling and Simulation Instrumentation. | | | |
| Title: SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638. FY 2022 Plans: Funding transferred in accordance with Title 15 USC ?638. FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638. | - | 0.325 | - |
| Accomplishments/Planned Programs Subtotals | 53.813 | 54.767 | 70.718 |

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|-----------------------------------------------------------------|
| C. Other Program Funding Summary (\$ in Millions) N/A |
| Remarks |
| D. Acquisition Strategy N/A |