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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Defense Information Systems Agency **Date:** April 2022

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| <b>Appropriation/Budget Activity</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 6:</i><br><i>RDT&amp;E Management Support</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0305208K / <i>Distributed Common Ground/Surface 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 |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element                                 | 0.000       | 3.112   | 3.073   | 3.072        | -           | 3.072         | 3.132   | 3.194   | 3.193   | 3.258   | Continuing       | Continuing |
| NF1: <i>Distributed Common Ground/Surface Systems</i> | 0.000       | 3.112   | 3.073   | 3.072        | -           | 3.072         | 3.132   | 3.194   | 3.193   | 3.258   | Continuing       | Continuing |

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

As the sole joint interoperability certification agent, the Joint Interoperability Test Command (JITC) provides Test and Evaluation (T&E) services to the Distributed Common Ground/Surface Systems (DCGS) Family of Systems (FoS). The DCGS FoS is the major component of the Defense Intelligence Information Enterprise (DI2E) which is modernizing operations to a single, unified Common Data Fabric (CDF) or centralized data management strategy, from the legacy DCGS Integration Backbone (DIB) federation. The CDF provides Enterprise Intelligence, Surveillance, and Reconnaissance (ISR) data to consuming machines and applications throughout the DI2E and is a critical component of the Defense Intelligence Digital Transformation implementation. This effort includes T&E of DI2E modernization initiatives integrated to advance the transformation of the entire enterprise from a collection of component-unique systems to an integrated Global ISR Enterprise for joint operations.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023 Base</b> | <b>FY 2023 OCO</b> | <b>FY 2023 Total</b> |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 3.112          | 3.073          | 0.000               | -                  | 0.000                |
| Current President's Budget                        | 3.112          | 3.073          | 3.072               | -                  | 3.072                |
| Total Adjustments                                 | 0.000          | 0.000          | 3.072               | -                  | 3.072                |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -              | -              |                     |                    |                      |
| • Adjustment to Budget Year                       | 0.000          | -              | 3.072               | -                  | 3.072                |

**Change Summary Explanation**

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding. The decrease of -\$0.001 in FY 2023 is due to a technical adjustment.

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|--|--------------------|----------------|----------------|---------------------|--|----------------------|----------------|----------------|--|-------------------------|-------------------------|-------------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Defense Information Systems Agency |                    |                |                |                     |  |                      |                |                |  | <b>Date:</b> April 2022 |                         |                   |
| <b>Appropriation/Budget Activity</b><br>0400 / 6   |                    |                |                |                     | <b>R-1 Program Element (Number/Name)</b><br>PE 0305208K / <i>Distributed Common Ground/Surface Systems</i> |                      |                |                | <b>Project (Number/Name)</b><br>NF1 / <i>Distributed Common Ground/Surface Systems</i> |                         |                         |                   |
| <b>COST (\$ in Millions)</b>   | <b>Prior Years</b> | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023 Base</b> | <b>FY 2023 OCO</b>   | <b>FY 2023 Total</b> | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b>   | <b>FY 2027</b>          | <b>Cost To Complete</b> | <b>Total Cost</b> |
| NF1: <i>Distributed Common Ground/Surface Systems</i>  | 0.000              | 3.112          | 3.073          | 3.072               | -  | 3.072                | 3.132          | 3.194          | 3.193  | 3.258                   | Continuing              | Continuing        |
| Quantity of RDT&E Articles   | -                  | -              | -              | -                   | -  | -                    | -              | -              | -  | -                       |                         |                   |

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

JITC coordinates with the Military Services and Defense Intelligence Agencies to conduct DCGS FoS testing and analysis, including event coordination, configuration, and instrumentation through the Enterprise Integration and Test Capability (EITC). Under the guidance of the Office of the Under Secretary of Defense for Intelligence and Security (OUSD(I&S)), this effort, referred to as the DCGS Test and Evaluation Focus Team (T&E FT), is composed of three parts: the EITC Focus Group, providing and sustaining enterprise-level T&E requirements analysis, instrumentation, and automation; the Strategy Focus Group, evaluating current and future net-enabled enterprise T&E methods and capabilities; and the Execution Focus Group, which leverages the other groups' methodologies and tools in executing DCGS Enterprise assessment events, such as ENTERPRISE STORM (ES), the premier Defense Intelligence Enterprise demonstration series to promote interoperability and integration between the Military Services, Defense Intelligence Agencies, Five Eye Allies (FVEY) and Select Coalition Partners. These efforts improve systems engineering and T&E throughout all phases of the DCGS life-cycle, resulting in improved capabilities to share net-centric data and services among and between components of the DCGS FoS, the overarching DI2E, and Joint All-Domain Command and Control (JADC2) capabilities.

The T&E FT engineers and operates the EITC, instrumenting and evaluating DI2E compliance with enterprise Service DCGS Net-Ready Key Performance Parameter elements, and joint needs. Develops testing concepts and strategies to determine compliance with emergent Global ISR Enterprise attributes, and applicable joint interoperability standards in operational or operationally representative environments. Provides a forum to advocate, coordinate, and synchronize use of existing Department of Defense and Service Test Facilities such as those available through the Test Resource Management Center to advance science, technology, modeling, and simulation technologies to improve Global ISR Enterprise test capabilities, capacity, and integration.

The T&E FT supports ES demonstrations and evaluation of capabilities relying on the Defense Intelligence Agency's CDF, the Joint Worldwide Intelligence Communications System, and the Battlefield Information Collection and Exploitation System to characterize the state of DI2E operations, ISR programs, and partner interoperability as they incorporate multi-domain Continuous Integration / Continuous Delivery (CI/CD) DevSecOps pipelines. Assesses capabilities that can effectively transition to operations within 6-12 months. Supports DCGS Enterprise-wide acquisitions that implement digital modernization strategies and evaluate DI2E integration with JADC2 initiatives.

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

|  | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023</b> |
|--|----------------|----------------|----------------|
| <b>Title:</b> Distributed Common Ground/Surface Systems (DCGS)   | 3.112          | 3.073          | 3.072          |
| <b>Description:</b> The T&E FT supports ES demonstrations and evaluation of capabilities relying on the Defense Intelligence Agency's CDF, the Joint Worldwide Intelligence Communications System, the Secret Internet Protocol Router Network, and the Battlefield Information Collection and Exploitation System to characterize the state of DI2E operations, ISR programs, and partner |                |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023</b> |
|---|----------------|----------------|----------------|
| <p>interoperability as they incorporate multi-domain Continuous Integration / Continuous Delivery (CI/CD) DevSecOps pipelines into operational networks. The T&amp;E FT engineers and operates the EITC, instrumenting and evaluating DI2E compliance with enterprise Service DCGS Net-Ready Key Performance Parameter elements, and joint needs. Develops testing concepts and strategies to determine compliance with emergent Global ISR Enterprise attributes, and applicable joint interoperability standards in operational or operationally representative environments. Supports DCGS Enterprise-wide acquisitions that implement digital modernization strategies and evaluate DI2E integration with JADC2 initiatives. Provides a forum to advocate, coordinate, and synchronize use of existing Department of Defense and Service Test Facilities such as those available through the Test Resource Management Center to advance science, technology, modeling, and simulation technologies to improve Global ISR Enterprise test capabilities, capacity, and integration.</p> <p><b>FY 2022 Plans:</b><br/>Will revise and evolve T&amp;E data collection techniques and analysis strategies in support of DCGS Enterprise community members acquisition programs as they integrate capabilities and services solutions to address the operational gaps identified in OUSD(I&amp;S) sponsored DCGS Enterprise Capabilities Based Assessment and other approved requirements. Continue to plan, develop, and execute enterprise-level data collection during multiple yearly test events and demonstration cycles. Support establishing the EITC to provide enhanced functionality, expand and modernize T&amp;E capacity, and perform automated evaluations of net-centric capabilities with improved assessment methodologies and practices by incorporating new technologies. Continue enhancement of instrumentation and automated data collection tools to support testing on multiple network domains and enclaves where the DCGS FoSs, Defense Intelligence Agencies, FVEY and Select Coalition Partners operate. Continue to develop T&amp;E methodology and tools to support testing of enterprise cybersecurity solutions to determine if they comply with standards, support interoperability between the DCGS FoSs, and meet the DCGS Enterprise cybersecurity requirements. Continue to conduct compliance testing of data, metadata, and web services against established standards to enhance the sharing and promote reuse of net centric solutions. Continuing to expand distributed and automated testing capabilities that enable DCGS entities and other communities of interest to test for standards compliance during the development and acquisition processes. All data collected by these assessment efforts are reflected in an annual DCGS Enterprise Assessment Report that delineates how well the DCGS Enterprise shows progress over time in meeting the capabilities and closing gaps reflected in the 2016 DCGS Enterprise Initial Capabilities Document (ICD), and advance National and Intelligence Defense Strategies, and recurring ES guidance memoranda.</p> <p><b>FY 2023 Plans:</b><br/>Will revise and evolve T&amp;E data collection techniques and analysis strategies in support of DCGS Enterprise community members acquisition programs' interoperability as they integrate capabilities and solutions to address operational gaps identified in OUSD(I&amp;S) sponsored DCGS Enterprise Capabilities Based Assessment and other approved and emergent requirements. Continue to plan, develop, and execute enterprise-level data collection during multiple, Service and Defense Intelligence Agency led, yearly test events and demonstration cycles. Support establishing the EITC to provide enhanced functionality, expand and</p> |                |                |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>  | <b>FY 2021</b> | <b>FY 2022</b> | <b>FY 2023</b> |
|--|----------------|----------------|----------------|
| <p>modernize T&amp;E capacity, and perform automated evaluations of net-centric capabilities with improved assessment methodologies and practices due new technology integration and software development practices. Continue to conduct compliance testing of data, metadata, and services against applicable standards that enhance data sharing and promote reuse of net-centric solutions. Continue to develop T&amp;E methodology and tools to support the evaluation of enterprise cybersecurity solutions and determine DCGS Enterprise standards compliance, interoperability, and efficiencies of cybersecurity reciprocity and automated policy agreements. Continue enhancement of instrumentation and automated, distributed data collection tools to support testing on multiple network domains, cloud environments, and enclaves where the DCGS FoSs, Defense Intelligence Agencies, FVEY and Select Coalition Partners operate to evaluate interoperability, as these entities incorporate multi-domain CI/CD DevSecOps pipelines and accelerated acquisition timelines. Data collected by these assessment efforts advance planning, budgeting, and management of DCGS Enterprise capability investments that implement National and Intelligence Defense Strategies, and recurring ES guidance memoranda</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b><br/>The decrease of -\$0.001 from FY 2022 to FY 2023 is due to non-fuel technical adjustment.</p> |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>  | 3.112          | 3.073          | 3.072          |

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

N/A

**Remarks**

**D. Acquisition Strategy**

Test, Evaluation, and Certification (TEC) indefinite delivery/indefinite quantity contract provides T&E support by performing a wide range of non-personal services to encompass testing, scientific, engineering, logistic, administrative, and ancillary support of the DISA T&E missions. The TEC contract provides for expansion and contraction of staff years as workload dictates. An additional contract is a Federal Preferential Sole Source Procurement set-aside which provides consolidated facilities support.