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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Operational Test and Evaluation, Defense **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0460: <i>Operational Test and Evaluation, Defense I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	113.133	67.648	144.590	58.693	-	58.693	59.477	59.455	60.226	61.431	Continuing	Continuing
000920: <i>OTA&amp;A</i>	113.133	67.648	144.590	58.693	-	58.693	59.477	59.455	60.226	61.431	Continuing	Continuing

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

The Operational Test Activities and Analyses (OTA&A) programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DOD). The OTA&A programs consist of three activities: Joint Test and Evaluation (JT&E); Test and Evaluation Threat Resource Activity (TETRA); and Center for Countermeasures (CCM).

JT&E projects are T&E activities conducted in a joint military environment that develop process improvements. These multi-Service projects, chartered by the Office of the Secretary of Defense and coordinated with the Joint Staff, CCMDs, and the Services, provide non-materiel solutions that improve the following: joint interoperability of Service systems, technical and operational concepts, joint operational issues, development and validation of joint test methodologies, and test data for validating models, simulations, and test beds. New projects are also encouraged to align their efforts to support the National Defense Strategy (NDS). The JT&E projects address relevant joint warfighting issues in a joint test and evaluation environment by developing and providing new tactics, techniques, and procedures to improve joint capabilities and methodologies.

TETRA, based on a memorandum of agreement between the DOT&E and the Defense Intelligence Agency, provides DOT&E support in the areas of threat resource analysis, intelligence support and threat systems investments. As DOT&E's agent, TETRA provides threat resource analyses on the availability, capabilities and limitations of threat representations (threat simulators, targets, models, U.S. surrogates, and foreign materiel) and analysis of test resources used for operational testing to support DOT&E's assessment of the adequacy of testing for those programs designated for oversight by DOT&E and the Office of the Under Secretary of Defense Acquisition and Sustainment. TETRA provides DOT&E action officers and other DOT&E activities with program-specific threat intelligence support. TETRA also funds management, oversight, and the actual development of common-use threat specifications for threat simulators, threat representative targets, and digital threat models used for T&E.

CCM, a Joint Service Countermeasure (CM) T&E activity, directs, coordinates, supports, and conducts independent countermeasure/counter-countermeasure (counter-CM) T&E activities of U.S. and foreign weapon systems, subsystems, sensors, and related components. CCM accomplishes this work in support of DOT&E, weapon system developers, and the Services.

CCM's testing and analyses directly supports evaluations of the operational effectiveness and suitability of CM/counter-CM systems, such as aircraft survivability equipment (ASE) used on rotary-wing and fixed-wing aircraft. CCM's mission to support T&E of ASE enables the survivability of aircraft in a high threat environment to enable mission success. In addition, CCM provides test support for Directed Energy Weapons (DEW) and Counter-Unmanned Aircraft Systems (C-UAS) programs. CCM improves Service member exercises, training, and pre-deployment activities with expertise in CM/counter-CM technology and capabilities. Also, cooperative Allied efforts are supported in the areas of ASE T&E, DEW T&E, and threat M&S development.

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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Operational Test and Evaluation, Defense **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Management Support	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE I Operational Test Activities and Analyses
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	42.648	57.718	58.693	-	58.693
Current President's Budget	67.648	144.590	58.693	-	58.693
Total Adjustments	25.000	86.872	0.000	-	0.000
• Congressional General Reductions	-	-1.028			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	25.000	87.900			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

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

**Project:** 000920: OTA&A

Congressional Add: *Program Increase: Lab and Test Range Upgrades*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Directed Energy*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Space Systems*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Targets*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Data Management*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Artificial Intelligence*

Congressional Add: *Program Increase: Test Capabilities Acceleration - AI/Autonomous Systems*

Congressional Add: *Program Increase: Test Capabilities Acceleration - Innovation Hub*

Congressional Add Subtotals for Project: 000920

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	25.000	-
	-	7.500
	-	7.500
	-	25.000
	-	16.400
	-	17.500
	-	6.000
	-	8.000
Congressional Add Subtotals for Project: 000920	25.000	87.900
Congressional Add Totals for all Projects	25.000	87.900

**Change Summary Explanation**

No change in this program element from FY 2023 President's Budget submission.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Operational Test and Evaluation, Defense **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
000920: OTA&A	113.133	67.648	144.590	58.693	-	58.693	59.477	59.455	60.226	61.431	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Operational Test Activities and Analyses (OTA&A) programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DOD). The OTA&A programs consist of three activities: Joint Test and Evaluation (JT&E); Test and Evaluation Threat Resource Activity (TETRA); and Center for Countermeasures (CCM).

JT&E projects are T&E activities conducted in a joint military environment that develop process improvements. These multi-Service projects, chartered by the Office of the Secretary of Defense and coordinated with the Joint Staff, CCMDs, and the Services, provide non-materiel solutions that improve the following: joint interoperability of Service systems, technical and operational concepts, joint operational issues, development and validation of joint test methodologies, and test data for validating models, simulations, and test beds. New projects are also encouraged to align their efforts to support the National Defense Strategy (NDS). The JT&E projects address relevant joint warfighting issues in a joint test and evaluation environment by developing and providing new tactics, techniques, and procedures to improve joint capabilities and methodologies.

TETRA, based on a memorandum of agreement between the DOT&E and the Defense Intelligence Agency, provides DOT&E support in the areas of threat resource analysis, intelligence support and threat systems investments. As DOT&E's agent, TETRA provides threat resource analyses on the availability, capabilities and limitations of threat representations (threat simulators, targets, models, U.S. surrogates, and foreign materiel) and analysis of test resources used for operational testing to support DOT&E's assessment of the adequacy of testing for those programs designated for oversight by DOT&E and the Office of the Under Secretary of Defense Acquisition and Sustainment. TETRA provides DOT&E action officers and other DOT&E activities with program-specific threat intelligence support. TETRA also funds management, oversight, and the actual development of common-use threat specifications for threat simulators, threat representative targets, and digital threat models used for T&E.

CCM, a Joint Service Countermeasure (CM) T&E activity, directs, coordinates, supports, and conducts independent countermeasure/counter-countermeasure (counter-CM) T&E activities of U.S. and foreign weapon systems, subsystems, sensors, and related components. CCM accomplishes this work in support of DOT&E, weapon system developers, and the Services.

CCM's testing and analyses directly supports evaluations of the operational effectiveness and suitability of CM/counter-CM systems, such as aircraft survivability equipment (ASE) used on rotary-wing and fixed-wing aircraft. CCM's mission to support T&E of ASE enables the survivability of aircraft in a high threat environment to enable mission success. In addition, CCM provides test support for Directed Energy Weapons (DEW) and Counter-Unmanned Aircraft Systems (C-UAS) programs. CCM improves Service member exercises, training, and pre-deployment activities with expertise in CM/counter-CM technology and capabilities. Also, cooperative Allied efforts are supported in the areas of ASE T&E, DEW T&E, and threat M&S development.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Operational Test and Evaluation, Defense	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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<p><b>Title:</b> Operational Test Activities and Analyses (OTA&amp;A)</p> <p><b>Description:</b> OTA&amp;A programs are continuing efforts that provide management and oversight of T&amp;E functions and expertise to the DOD. The OTA&amp;A programs consist of three activities: Joint Test and Evaluation (JT&amp;E); Test and Evaluation Threat Resource Activity (TETRA); and, the Center for Countermeasures (CCM).</p> <p><b>FY 2023 Plans:</b> JT&amp;E</p> <p>In FY 2023, JT&amp;E plans to start one new Joint Test project and five new Quick Reaction Test projects. Once the program’s funding stream stabilizes, JT&amp;E plans to convene senior leader boards to find efficiencies in the program’s processes and start new projects that address relevant joint warfighting issues in a joint test and evaluation environment. The Joint Integrated Fire Control – Directed Energy Weapons for Air Defense Joint Test closed in October 2022. It developed and tested a concept of employment to integrate directed energy weapons systems with kinetic weapons systems to provide a layered defense against a mix of air threats in the defense of critical assets. Four Quick Reaction Test projects that started in FY 2022 will continue through FY 2023.</p> <p>TETRA</p> <p>In FY 2023, TETRA will continue test planning working group participation and perform technical analyses to identify threat shortfalls; aligns with the NDS requirements; conduct special studies and provide current intelligence support tailored to specific U.S. weapon systems acquisitions based on the availability of funding. TETRA will:</p> <ul style="list-style-type: none"> <li>- Continue to create standard operating procedures for DOT&amp;E Action Officer intelligence support to reduce risk and capability.</li> <li>- Execute initiatives that directly influence or improve the areas of software intensive systems and cybersecurity by moving to Digital engineering via accredited models and simulation while continuing to “Shift Left” with integrated developmental and operational testing. TETRA plans to improve the Test Environments of growing importance on Human-System Interaction and adapting T&amp;E for emergent technologies.</li> <li>- Execute initiatives to understand and develop test capability for emerging technologies, T&amp;E infrastructure, tools and processes for emerging capabilities and threats (space, hypersonics, directed energy, artificial intelligence, machine learning, infrared and radio frequency, 5th Generation Aerial Target (5GAT), automated &amp; autonomous cybersecurity testing, neural networks to address current and potential threats.</li> <li>- Continue to support the reduction in acquisition and test timelines while increasing test capabilities against Great Power threats.</li> </ul>	42.648	56.690	58.693
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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Operational Test and Evaluation, Defense		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<ul style="list-style-type: none"> <li>- Continue to foster rapid technological advancements in the areas of threat representation for T&amp;E and threat test resources by incorporating innovative technologies from the intelligence community into threat test assets to provide improved test fidelity and performance with cost savings.</li> <li>- Continue identifying initiatives to improve cyberspace threat representation and prediction, cyber-economic threats to DOD systems and scalable cyberspace threat test environments that can interface with cyber test networks; and to conduct offensive cyber operations (OCO) and defensive cyber operations (DCO) without significantly impacting critical operational capabilities.</li> <li>- Complete the development of an Advanced Satellite Navigation Receiver (ASNR) for an open service Global Positioning System / Inertial Measurement Unit (GPS/IMU) coupled high-fidelity, high dynamic next generation Time Space Position Information (TSPI) system to support future missile tests and Joint Standard Instrumentation Suite (JSIS) flight testing.</li> <li>- Develop and build threat representative decoys and shells to support tests conducted on the ranges.</li> <li>- Complete development of cognitive radar definition and white paper to develop model for testing against advanced cognitive radar threats.</li> <li>- Continue to pursue initiatives for improving satellite and space threat representations and developing alternatives for conducting threat realistic operational testing in response to environmental limitations.</li> <li>- Continue to support the U.S. warfighter by providing threat intelligence relevant to emerging threats such as artificial intelligence, autonomy, robotics, directed energy, hypersonic and biotechnology to ensure operational and developmental testing occurs against realistic threat representations, including (but not limited to) threats from both revisionist powers such as China and Russia threats from rogue regimes such as North Korea and Iran, and threats from non-state actors.</li> <li>- Continue to conduct threat intelligence investigations that support use of innovative technologies in the areas of artificial intelligence AI, autonomy, robotics, machine learning, quantum computing, lasers, nanotechnology, chemical and biological, directed energy, hypersonic and biotechnology being developed by nation states to improve threat representation in the contested domain of air, land, sea, space and cyberspace.</li> <li>- Continue to support initiatives for the development of Great Power threat representative jammers, for use in terrain constricted tests as a directional active electronically steered array jammer that will limit Federal Aviation Administration and other common jammer restrictions/acceptance/endorsement for T&amp;E use.</li> <li>- Continue to sustain and manage threat M&amp;S to support test and evaluation by overseeing and coordinating intelligence community developed threat models, performing threat model anomaly resolution resolving differences from live fire testing, integrating threat models into T&amp;E facilities and distributing performance and signature models to T&amp;E users.</li> <li>- Continue to represent DOT&amp;E at foreign material exchanges, inter-agency coordinating groups, and non-proliferation groups to raise awareness of T&amp;E needs for foreign materiel, coordinate service requirements, and de-conflict and prioritize foreign materiel requirements for T&amp;E.</li> <li>- Continue to provide intelligence support to DOT&amp;E staff to address specific questions on threat systems affecting programs on the OSD T&amp;E Oversight list and provide briefings and special intelligence reports when necessary.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Operational Test and Evaluation, Defense		<b>Date:</b> March 2023
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**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2022	FY 2023	FY 2024
<ul style="list-style-type: none"> <li>- Continue providing DOT&amp;E representative support at the Threat Steering Group (TSG) in support of the Validated Online Lifecycle Threat (VOLT) Report process.</li> <li>- Continue to represent DOT&amp;E interests on the Intelligence Acquisition Agility Working Group (IAAWG) and the Intelligence Mission Data Oversight Board responsible for development, production and sharing issues affecting the intelligence data supporting weapons systems acquisition.</li> <li>- Continue to serve DOT&amp;E's interests on the Executive Steering Group (ESG) and provide access to the Intelligence Mission Data Management Analysis &amp; Reporting System (IMARS).</li> <li>- Continue to manage Integrated Technical Evaluation and Analysis of Multiple Sources (ITEAMS) efforts supporting programs on the OSD Oversight T&amp;E List by conducting intelligence "deep dives" to produce intelligence in sufficient detail to develop new threat test assets/threat systems for T&amp;E.</li> <li>- Continue the independent review of validation reports to ensure the correct threat data and critical parameters are presented in the reports to assess the threat representations' capabilities to replicate a real-world threat system.</li> <li>- Continue to provide threat intelligence and validation support at the Joint Aircraft Survivability Program (JASP) reviews to ensure there is no duplication of effort and independently ensure the correct threat data and critical parameters are presented to assess the real-world threat representations.</li> <li>- Continue to serve as the T&amp;E Resources and Infrastructure Working Group (RIWG) DOT&amp;E lead for targets and threat systems investments.</li> <li>- Continue to serve as the DOT&amp;E agent for oversight in the coordination, development and execution of all Test Resource Management Center (TRMC)-funded projects within RIWG's Strategic &amp; Foundational Portfolios and legacy project investments.</li> <li>- Continue reviewing Threat Systems investments to prevent any duplication of effort and encourage cost savings by the sharing or multi-service use of newly developed threat representations to T&amp;E.</li> <li>- Continue leading Allied / NATO initiatives, tests, intelligence, and modeling &amp; simulation collaborative capability.</li> </ul> <p>Threat Systems will continue its efforts to improve significantly the standards set of threat performance models as the global threat environment evolves. These activities help DOT&amp;E carry out its Title 10 responsibilities to assess test adequacy and determine whether testing is threat realistic and suitable, promotes common solutions to Service threat representation needs and ultimately supports the warfighter.</p> <p>CCM</p> <p>CCM will emphasize support of the DOT&amp;E enterprise, with a clear focus on Title 10 oversight programs, ASE, DEW, C-UAS, and warfighter training events. CCM expects to increase focus on additional DOD critical technology areas that may have T&amp;E gaps, which will contribute to the testing of future weapons and the understanding of emerging threats. CCM will support the DOT&amp;E Space Electronic Warfare (EW) and Cyber Working Group. CCM's ability to provide unique test equipment and expertise will</p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>remain a benefit to all Services, and the ongoing Improvement and Modernization plans will ensure test capabilities are provided at a cost savings across the DOD. Additional instrumentation, personnel, and training will be key to ensuring our ongoing test support continues to add significance in emerging technology areas.</p> <p>CCM will build critical test and evaluation capabilities and the workforce necessary to evaluate emerging war fighting technologies. This includes mobile, open-air data collection and analysis capabilities that will support the T&amp;E of the rapid prototyping and fielding needs of these systems. The mobile test capability will allow T&amp;E of operational representative test scenarios in an open-air environment to support the accelerated development and fielding of CM systems within the DoD.</p> <p><b>FY 2024 Plans:</b> JT&amp;E</p> <p>In FY 2024, JT&amp;E plans to start one new Joint Test project and five new Quick Reaction Test projects. JT&amp;E plans to close the five Quick Reaction Test projects that started in FY 2023. One Joint Test project expected to start in FY 2023 will continue through FY 2024.</p> <p>TETRA</p> <p>In FY 2024, TETRA will continue test planning working group participation and perform technical analyses to identify threat shortfalls; aligns with the NDS requirements; conduct special studies and provide current intelligence support tailored to specific U.S. weapon systems acquisitions based on the availability of funding. TETRA will:</p> <ul style="list-style-type: none"> <li>- Continue to create standard operating procedures for DOT&amp;E Action Officer intelligence support to reduce risk and capability.</li> <li>- Execute initiatives that directly influence or improve the areas of software intensive systems and cybersecurity by moving to Digital engineering via accredited models and simulation while continuing to “Shift Left” with integrated developmental and operational testing. TETRA plans to improve the Test Environments of growing importance on Human-System Interaction and adapting T&amp;E for emergent technologies.</li> <li>- Execute initiatives to understand and develop test capability for emerging technologies, T&amp;E infrastructure, tools and processes for emerging capabilities and threats (space, hypersonics, directed energy, artificial intelligence, machine learning, infrared and radio frequency, 5th Generation Aerial Target (5GAT), automated &amp; autonomous cybersecurity testing, neural networks to address current and potential threats.</li> <li>- Continue to support the reduction in acquisition and test timelines while increasing test capabilities against Great Power threats.</li> <li>- Continue to foster rapid technological advancements in the areas of threat representation for T&amp;E and threat test resources by incorporating innovative technologies from the intelligence community into threat test assets to provide improved test fidelity and performance with cost savings.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Operational Test and Evaluation, Defense		<b>Date:</b> March 2023
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<ul style="list-style-type: none"> <li>- Continue identifying initiatives to improve cyberspace threat representation and prediction, cyber-economic threats to DoD systems and scalable cyberspace threat test environments that can interface with cyber test networks; and to conduct OCO and DCO without significantly impacting critical operational capabilities.</li> <li>- Continue to develop and build threat representative decoys and shells to support tests conducted on the ranges.</li> <li>- Support initiatives based on the cognitive radar definition results of the white paper study to develop models for testing against advanced cognitive radar threats.</li> <li>- Continue to pursue initiatives for improving satellite and space threat representations and developing alternatives for conducting threat realistic operational testing in response to environmental limitations.</li> <li>- Continue to support the US warfighter by providing threat intelligence relevant to emerging threats such as artificial intelligence, autonomy, robotics, directed energy, hypersonic and biotechnology to ensure operational and developmental testing occurs against realistic threat representations, including (but not limited to) threats from both revisionist powers such as China and Russia threats from rogue regimes such as North Korea and Iran, and threats from non-state actors.</li> <li>- Continue to conduct threat intelligence investigations that support use of innovative technologies in the areas of artificial intelligence, autonomy, robotics, machine learning, quantum computing, lasers, nanotechnology, chemical and biological, directed energy, hypersonic and biotechnology being developed by nation states to improve threat representation in the contested domain of air, land, sea, space and cyberspace.</li> <li>- Continue to support initiatives for the development of Great Power threat representative jammers, for use in terrain constricted tests as a directional active electronically steered array jammer that will limit Federal Aviation Administration and other common jammer restrictions/acceptance/endorsement for T&amp;E use.</li> <li>- Continue to sustain and manage threat M&amp;S to support test and evaluation by overseeing and coordinating intelligence community developed threat models, performing threat model anomaly resolution resolving differences from live fire testing, integrating threat models into T&amp;E facilities and distributing performance and signature models to T&amp;E users.</li> <li>- Continue to represent DOT&amp;E at foreign material exchanges, inter-agency coordinating groups, and non-proliferation groups to raise awareness of T&amp;E needs for foreign materiel, coordinate service requirements, and de-conflict and prioritize foreign materiel requirements for T&amp;E.</li> <li>- Continue to provide intelligence support to DOT&amp;E staff to address specific questions on threat systems affecting programs on the OSD T&amp;E Oversight list and provide briefings and special intelligence reports when necessary.</li> <li>- Continue to provide DOT&amp;E representation at the Threat Steering Group (TSG) in support of the Validated Online Lifecycle Threat (VOLT) Report process.</li> <li>- Continue to represent DOT&amp;E interests on the IAAWG and the Intelligence Mission Data Oversight Board responsible for development, production and sharing issues affecting the intelligence data supporting weapons systems acquisition.</li> <li>- Continue to serve DOT&amp;E's interests on the ESG and provide access to the IMARS.</li> <li>- Continue to manage ITEAMS efforts supporting programs on the OSD Oversight T&amp;E List by conducting intelligence "deep dives" to produce intelligence in sufficient detail to develop new threat test assets/threat systems for T&amp;E.</li> </ul>			

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<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<p>- Continue the independent review of validation reports to ensure the correct threat data and critical parameters are presented in the reports to assess the threat representations' capabilities to replicate a real-world threat system.</p> <p>- Continue to provide threat intelligence and validation support at the JASP reviews to ensure there is no duplication of effort and independently ensure the correct threat data and critical parameters are presented to assess the real-world threat representations.</p> <p>- Continue serving as the T&amp;E RIWG DOT&amp;E lead for targets and threat systems investments.</p> <p>- Continue serving as the DOT&amp;E agent for oversight in the coordination, development and execution of all TRMC-funded projects within RIWG's Strategic &amp; Foundational Portfolios and legacy project investments; review Threat Systems investments to prevent any duplication of effort and encourage cost savings by the sharing or multi-service use of newly developed threat representations to T&amp;E.</p> <p>- Continue to lead Allied / NATO initiatives, tests, intelligence, and modeling &amp; simulation collaborative capability.</p> <p>Threat Systems will continue its efforts to significantly improve the standards set of threat performance models as the global threat environment evolves. These activities help DOT&amp;E carry out its Title 10 responsibilities to assess test adequacy and determine whether testing is threat realistic and suitable, promotes common solutions to Service threat representation needs and ultimately supports the warfighter.</p> <p>The Center for Countermeasures (CCM)</p> <p>In FY 2024, while continuing to support the T&amp;E of ASE, DEW, C-UAS, and warfighter training events, CCM will evaluate its current capabilities and test instrumentation gaps in high priority technology areas for possible solutions to support future T&amp;E modernization. CCM will continue to work with the DOT&amp;E Resource and Infrastructure Working Group and the Test Resource Management Center to identify test capability gaps and propose solutions.</p> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Increased funding reflects inflation cost growth in programs</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	42.648	56.690	58.693

	<b>FY 2022</b>	<b>FY 2023</b>
<b><i>Congressional Add:</i></b> Program Increase: Lab and Test Range Upgrades	25.000	-
<b><i>FY 2022 Accomplishments:</i></b> The FY 2022 Congressional Add increased funding for OT&E investments in test infrastructure to demonstrate new capabilities under operationally relevant conditions against realistic threats for lab and test range upgrades in the following domains: directed energy and targets. In FY22 DOT&E kicked off initiatives to:		

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<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A	
		<b>FY 2022</b>	<b>FY 2023</b>
Deliver verified and validated adversary threat surrogates accredited for use in T&E (ballistic missiles, surface-to-air missiles, torpedoes). Deliver verified and validated digital tool capability to enable evaluation of lethal effects against adversary maritime targets.			
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Directed Energy <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration for the development of instrumentation needed to evaluate high power microwave (HPM) systems and emerging higher beam powers.		-	7.500
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Space Systems <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration to deliver additional modalities for space system weaponeering capability, collateral damage estimation, and support full spectrum space survivability and lethality evaluations.		-	7.500
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Targets <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration to develop aerial target capabilities, extend the undersea training range capabilities, and accelerate the development of the next phase of threat specific and threat capable models for the purposes of operational and live fire T&E.		-	25.000
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Data Management <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration for the development and implementation of enterprise-level T&E data management solutions and accelerate the use of digital technologies in T&E.		-	16.400
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Artificial Intelligence <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration for the technology and infrastructure development, as well as T&E methods, tools and processes to support artificially intelligent-reliant cognitive electronic warfare systems models development.		-	17.500
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - AI/Autonomous Systems <b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration for the technology and infrastructure development, as well as T&E methods, tools and processes to support artificial intelligence/autonomous systems test and evaluation.		-	6.000
<b>Congressional Add:</b> Program Increase: Test Capabilities Acceleration - Innovation Hub		-	8.000

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Operational Test and Evaluation, Defense		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0460 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605814OTE / <i>Operational Test Activities and Analyses</i>	<b>Project (Number/Name)</b> 000920 / OTA&A

	FY 2022	FY 2023
<b>FY 2023 Plans:</b> Congressional add funding provides test capabilities acceleration for the DOT&E FY22 Strategy Plan which will address software and cyber related T&E challenges by increasing the cyber survivability posture, effectiveness, suitability, and survivability of software reliant systems.		
<b>Congressional Adds Subtotals</b>	25.000	87.900

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A