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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> / BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	118.329	21.422	27.198	27.366	-	27.366	-	-	-	-	-	-
804: <i>Development Test &amp; Evaluation</i>	118.329	21.422	20.198	20.391	-	20.391	-	-	-	-	-	-
048: <i>Cybersecurity DT&amp;E for Weapon Systems</i>	0.000	0.000	7.000	6.975	-	6.975	-	-	-	-	-	-

**Note**

In FY 2021, OSD(R&E) added the Cybersecurity DT&E for Weapon Systems project (Project Code 048) to provide needed Cybersecurity test strategies/plans to the acquisition/development process.

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

Program Element (PE) 0605804D8Z establishes the dedicated funding line to carry out the duties in accordance with Title 10 U.S.C. Section 133a, FY 2018 National Defense Authorization Act (NDAA) section 838, and the Department of Defense (DoD) Directive 5137.02 dated July 15, 2020. In FY 2020, USD(R&E) established the office of the Director, Developmental Test, Evaluation, and Assessments (DTE&A) to provide consolidate Developmental Test and Evaluation (DT&E) and Independent Technical Assessment functions in a single office. The Director, DTE&A is the principal advisor to the Secretary of Defense; the Under Secretary of Defense for Research and Engineering (USD(R&E)); and the Under Secretary of Defense, Acquisition and Sustainment (USD(A&S)) on DT&E and Technical Risk Assessments in the Department of Defense (DoD).

Program Element 0605804D8Z supports the three strategic lines of effort within the National Defense Strategy (NDS). The Office of the USD(R&E) (OUSD(R&E)) engages with acquisition and rapid prototype programs to provide test planning expertise, including cybersecurity DT&E, and decision-quality data at major program reviews to help them succeed in modernizing key capabilities to Build a More Lethal Force. OUSD(R&E) ensures programs meet interoperability requirements to deepen interoperability and Strengthen Alliances. Finally, OUSD(R&E) works with Director, Operational Test and Evaluation to streamline T&E policy and guidance to improve test efficiency, and reduce acquisition cost and schedule to Reform the Department for Greater Performance and Affordability.

Program Element (PE) 0605804D8Z supports and improves the DT&E efforts of Major Defense Acquisition Program (MDAP), Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs designated by USD(R&E) or USD(A&S) as they progress through the acquisition/development lifecycle; supports development of the defense acquisition workforce Test and Evaluation (T&E) career field; and supports development of policy and guidance for the conduct of DT&E within the DoD. Beginning in FY 2021, USD(R&E) established project 048, "Cybersecurity DT&E for Weapon Systems", to provide dedicated resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans to support key acquisition milestones and engineering/programmatic decisions.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Office of the Secretary Of Defense	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> / BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2020</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022 Base</u></b>	<b><u>FY 2022 OCO</u></b>	<b><u>FY 2022 Total</u></b>
Previous President's Budget	22.203	27.198	27.634	-	27.634
Current President's Budget	21.422	27.198	27.366	-	27.366
Total Adjustments	-0.781	0.000	-0.268	-	-0.268
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.778	-			
• Program Adjustments	-0.003	-	-0.268	-	-0.268

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Office of the Secretary Of Defense										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>				<b>Project (Number/Name)</b> 804 / <i>Development Test &amp; Evaluation</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
804: <i>Development Test &amp; Evaluation</i>	118.329	21.422	20.198	20.391	-	20.391	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Project 804 provides resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative DT&E strategies/plans to support key acquisition milestones and engineering/programmatic decisions. This project also supports the OUSD(R&E) to manage the Test & Evaluation (T&E) career field and curriculum for the DoD acquisition workforce, and develop policy and guidance for the conduct of DT&E within DoD. On behalf of the OUSD(R&E) this project executes the following activities:

- Support acquisition programs in the development of comprehensive, efficient, and innovative test strategies. Ensure that developmental test strategies are documented in Test and Evaluation Master Plans (TEMPs). For ACAT ID programs, review and approve/disapprove the DT&E strategy/plans within the TEMP. For ACAT IB/IC programs, review the DT&E strategy/plans within the TEMP and provide a recommendation to the Service Milestone Decision Authority as to whether or not the strategy is adequate.
- Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&E strategies/plans.
- Review and oversee developmental test processes across the services, especially during the formative stages of programs, to include prototyping and experimentation.
- Provide DT&E subject matter experts to assist programs in building Developmental Evaluation Frameworks (DEFs) for inclusion in the TEMP.
- For ACAT ID programs, provide independent DT&E Sufficiency Assessments prior to Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle.
- When requested by the Secretary or Deputy Secretary of Defense, provide independent developmental test assessments in support of USD(A&S) and Service Major Defense Acquisition Programs.
- Support the development of independent technical risk assessments and advise the Secretary on the progress toward meeting Key Performance Parameters, technology maturation, reliability growth projections, interoperability, and cybersecurity posture before any decision to grant Milestone A or B approval, or enter into low-rate initial production or full-rate production for ACAT ID programs or when requested by the Secretary.
- Manage the Scientific Test and Analysis Techniques Center of Excellence (STAT COE). Over the last eight years, the STAT COE has supported over 66 Acquisition Program Managers in the development of statistically optimized test programs. These efforts have resulted in 464 more efficient and effective test designs, test cost avoidance of over \$200 million, and development of 68 test planning and analysis best practices averaging over 2000 downloads monthly.
- Support OUSD(R&E) to develop policy and guidance that ensures efficient and effective DT&E across the DoD, including policy and guidance for developmental testing of interoperability and cybersecurity in coordination with the Joint Staff and DoD Chief Information Officer (CIO).
- Identify DoD test infrastructure gaps and support development of the OUSD(R&E) test resources strategic plan.
- Ensure that the DT&E activities are fully integrated into, and consistent with, the DoD Systems Engineering and development planning processes.
- Evolve the DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Office of the Secretary Of Defense	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>	<b>Project (Number/Name)</b> 804 / <i>Development Test &amp; Evaluation</i>
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- Coordinate with Director, Operational Test and Evaluation to improve T&E efficiency and make best use of integrated testing.
- Beginning in FY 2021, Cybersecurity efforts in this project were moved to project 048.
- Beginning in FY 2021, USD(R&E) consolidated all policy and workforce efforts under the SE Program Element 0605142D8Z. T&E Policy and Workforce efforts will be managed and funded from that PE with support from this PE.

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

	FY 2020	FY 2021	FY 2022
<p><b>Title:</b> Development Test and Evaluation</p> <p><b>Description:</b> This program supports and improves the DT&amp;E efforts of Major Defense Acquisition Program (MDAP), Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs as they progress through the acquisition/development lifecycle; lead the defense acquisition workforce T&amp;E career field; and support development of policy and guidance for the conduct of DT&amp;E within the DoD.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>- Worked with Adaptive Acquisition Framework Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve DT&amp;E planning; and developed comprehensive and efficient DT&amp;E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT).</li> <li>- Supported rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&amp;E strategies/plans.</li> <li>- Promoted the OUSD(R&amp;E) 'Shift Left' initiative that focuses on ensuring DT&amp;E strategies/plans are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability.</li> <li>- For ACAT ID programs, reviewed/approved TEMP's submitted to support milestone reviews. Ensured DT&amp;E planning was complete prior to the start of DT&amp;E activities. For ACAT IB/IC programs, reviewed the DT&amp;E strategy/plans within the TEMP, and provided a recommendation to the Service Milestone Decision Authority as to whether or not the strategy was adequate.</li> <li>- Supported the development and refinement of DT&amp;E policies and methodologies addressing DT&amp;E across all Acquisition programs.</li> <li>- For ACAT ID programs, published independent DT&amp;E Sufficiency Assessments prior to Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle.</li> <li>- When requested by the Secretary or Deputy Secretary of Defense, provided independent developmental test assessments in support of USD(A&amp;S) and Service Major Defense Acquisition Programs.</li> <li>- Promoted the application of sound DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</li> </ul>	21.422	20.198	20.391

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>	<b>Project (Number/Name)</b> 804 / <i>Development Test &amp; Evaluation</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>- Promoted and implemented initiatives that evolve the DT&amp;E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.</p> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve DT&amp;E planning and develop comprehensive and efficient DT&amp;E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT).</li> <li>- Continue to support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&amp;E strategies/plans.</li> <li>- Continue to implement the OUSD(R&amp;E) 'Shift Left' initiative that focuses on ensuring DT&amp;E strategies/plans are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability.</li> <li>- For ACAT ID programs, review/approve all TEMPs submitted to support milestone reviews. Ensure DT&amp;E planning is complete prior to the start of DT&amp;E activities. For ACAT IB/IC programs, review the DT&amp;E strategy/plans within the TEMP and provide a recommendation to the Service Milestone Decision Authority as to whether or not the strategy is adequate.</li> <li>- Refine DT&amp;E policies and methodologies addressing DT&amp;E across all Acquisition programs.</li> <li>- For ACAT ID programs, publish independent DT&amp;E Sufficiency Assessments prior to Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle.</li> <li>- When requested by the Secretary or Deputy Secretary of Defense, provide independent developmental test assessments in support of USD(A&amp;S) and Service Major Defense Acquisition Programs.</li> <li>- Promote the application of sound DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</li> <li>- Implement initiatives that evolve the DT&amp;E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> No significant changes.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		21.422	20.198	20.391
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
N/A				

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**D. Acquisition Strategy**  
N/A

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<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / Development Test & Evaluation				<b>Project (Number/Name)</b> 048 / Cybersecurity DT&E for Weapon Systems			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
048: Cybersecurity DT&E for Weapon Systems	0.000	0.000	7.000	6.975	-	6.975	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Beginning in FY 2021, this project provides dedicated resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans to support key acquisition milestones and engineering/programmatic decisions. On behalf of the OUSD(R&E) this project executes the following activities:

- Support acquisition programs in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies. Ensure that Cybersecurity DT&E strategies are documented in Test and Evaluation Master Plans (TEMPs). For ACAT ID programs, review and approve/disapprove the Cybersecurity DT&E strategy/plans within the TEMP.
- Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans.
- Review and oversee Cybersecurity DT&E processes across the services, especially during the formative stages of programs, to include prototyping and experimentation.
- Provide Cybersecurity DT&E subject matter experts to assist programs in building Developmental Evaluation Frameworks (DEFs) for inclusion in the TEMP.
- Provide Cybersecurity subject matter experts and assist programs in conducting Cybersecurity Table Top Exercises to identify potential threat vectors and associated risks early in development and focus Cybersecurity DT&E efforts.
- Provide Cybersecurity subject matter experts to assist programs with Phases 1 and 2 of the DoD Cybersecurity T&E Process and to develop Cybersecurity DT&E test objectives aligned to Cybersecurity requirements for security standards, cyber survivability and operational resilience.
- Support the development of independent technical risk assessments and advise the Secretary on the Cybersecurity, cyber survivability, and resilience posture before any decision to grant Milestone A or B approval, or enter into low-rate initial production or full-rate production for ACAT ID programs or when requested by the Secretary.
- Support OUSD(R&E) to develop Cybersecurity policy and guidance that ensures efficient and effective Cybersecurity DT&E across the DoD and in coordination with the Joint Staff and DoD Chief Information Officer (CIO).
- Identify DoD Cybersecurity test infrastructure gaps and support development of the OUSD(R&E) test resources strategic plan.
- Ensure that the Cybersecurity DT&E activities are fully integrated into, and consistent with, the DoD Systems Engineering and development planning processes.
- Evolve the Cybersecurity DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.
- Coordinate with Director, Operational Test and Evaluation to improve Cybersecurity T&E efficiency and make best use of integrated testing.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Cybersecurity DT&E for Weapon Systems	0.000	7.000	6.975

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> Beginning in FY 2021, this program supports and improves the Cybersecurity DT&amp;E efforts of Major Defense Acquisition Program (MDAP), Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs as they progress through the acquisition/development lifecycle; and support development of policy and guidance for the conduct of Cybersecurity DT&amp;E within the DoD.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>- Worked with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve Cybersecurity DT&amp;E planning and developed comprehensive and efficient DT&amp;E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT).</li> <li>- Supported rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&amp;E strategies/plans.</li> <li>- Promoted the OUSD(R&amp;E) 'Shift Left' initiative that focuses on ensuring Cybersecurity DT&amp;E strategies/plans are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increased the amount and quality of data available to support production decisions.</li> <li>- Supported the development and refinement of Cybersecurity DT&amp;E policies and methodologies addressing Cybersecurity DT&amp;E across all Acquisition programs.</li> <li>- When requested by the Secretary or Deputy Secretary of Defense, provided independent Cybersecurity developmental test assessments in support of USD(A&amp;S) and Service Major Defense Acquisition Programs.</li> <li>- Promoted the application of sound Cybersecurity DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</li> <li>- Implemented initiatives that evolve the Cybersecurity DT&amp;E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.</li> <li>- Promoted and implemented initiatives to guide acquisition programs for how to use Cybersecurity T&amp;E planning and analysis and Cybersecurity tests to identify and mitigate cyber risk in supply chains, development environments, tools and processes.</li> <li>- Collaborated with the Intelligence communities to improve cyber intelligence support to Cybersecurity DT&amp;E.</li> <li>- Worked with Lead DT&amp;E organizations to improve Cybersecurity DT&amp;E workforce capability and retention as well as capacity to support earlier integrated contractor and government Cybersecurity DT&amp;E.</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve Cybersecurity DT&amp;E planning and develop comprehensive and efficient DT&amp;E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT).</li> <li>- Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&amp;E strategies/plans.</li> </ul>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>- Implement the OUSD(R&amp;E) 'Shift Left' initiative that focuses on ensuring Cybersecurity DT&amp;E strategies/plans are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions.</li> <li>- Refine Cybersecurity DT&amp;E policies and methodologies addressing Cybersecurity DT&amp;E across all Acquisition programs.</li> <li>- When requested by the Secretary or Deputy Secretary of Defense, provide independent Cybersecurity developmental test assessments in support of USD(A&amp;S) and Service Major Defense Acquisition Programs.</li> <li>- Promote the application of sound Cybersecurity DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</li> <li>- Implement initiatives that evolve the Cybersecurity DT&amp;E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.</li> <li>- Implement initiatives to guide acquisition programs for how to use Cybersecurity T&amp;E planning and analysis and Cybersecurity tests to identify and mitigate cyber risk in supply chains, development environments, tools and processes.</li> <li>- Collaborate with the Intelligence communities to improve cyber intelligence support to Cybersecurity DT&amp;E.</li> <li>- Work with Lead DT&amp;E organizations to improve Cybersecurity DT&amp;E workforce capability and retention as well as capacity to support earlier integrated contractor and government Cybersecurity DT&amp;E.</li> </ul> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> No significant changes.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		0.000	7.000	6.975
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
N/A.				