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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Operational Test and Evaluation, Defense **Date:** May 2021

Appropriation/Budget Activity 0460: <i>Operational Test and Evaluation, Defense / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605118OTE / <i>Operational Test and Evaluation (OT&E)</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	85.685	93.291	100.021	105.394	-	105.394	-	-	-	-	-	-
000310: <i>OT&E</i>	85.685	93.291	100.021	105.394	-	105.394	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Director, Operational Test and Evaluation (DOT&E) was created by Congress in 1983. The Director is responsible under title 10 for policy and procedures for all aspects of Operational Test and Evaluation (OT&E) within the Department of Defense (DoD). Particular focus is given to OT&E that supports major weapon system production decisions for acquisition programs included on the Office of Secretary of Defense Test and Evaluation Oversight List that is prepared and approved annually. Generally, there are about 235 programs on the oversight list including all Major Defense Acquisition Programs (MDAP) and Major Automated Information Systems (MAIS). MDAPs may not proceed beyond low-rate initial production (BLRIP) until OT&E of the program is complete. DOT&E is involved early in the planning phase of each program to ensure adequate testing is planned and executed. Key elements of DOT&E's oversight authority include:

- The approval of component Test and Evaluation Master Plans (TEMPS).
- The approval of component OT&E Test Plans (TPs).
- Oversight of Military Department preparation and conduct of field operational tests; analysis and evaluation of the resultant test data; the assessment of the adequacy of the executed test and evaluation programs; and assessment of the operational effectiveness and suitability of the weapon systems.
- Reporting results of OT&E that support BLRIP decisions to the Secretary of Defense and Congress, as well as providing an annual report summarizing all OT&E activities and the adequacy of test resources within DoD during the previous fiscal year.
- The review and development of recommendations to the Secretary of Defense on all budgetary and financial matters related to OT&E, including operational test facilities, resources, and ranges.

DOT&E also oversees and resources OT&E community efforts to plan and execute joint operational evaluations of information assurance and interoperability (IA and IOP) of fielded systems and networks during major Combatant Command (CCMD) and Service exercises, and reports the trends and findings in the annual report. DOT&E is also involved in increasing the capacity to access realistically advanced cyber warfighting capabilities to keep pace with heightened demand for those capabilities, advancing technologies and the growing cyber threat.

This Program Element includes funds to obtain Federally Funded Research and Development Center (FFRDC) support in performing the described tasks, travel funds to carry out oversight of the OT&E and IA and IOP programs, funds for Service teams performing information assurance and interoperability assessments during exercises, administrative support services, DFAS support, and engineering and technical support services related to the conduct of OT&E and exercise assessments.

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B. Program Change Summary (\$ in Millions)	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	93.291	100.021	95.979	-	95.979
Current President's Budget	93.291	100.021	105.394	-	105.394
Total Adjustments	0.000	0.000	9.415	-	9.415
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Inflation/Travel adjustment	-	-	-2.585	-	-2.585
• Other Adjustments	-	-	12.000	-	12.000

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Operational Test and Evaluation, Defense **Date:** May 2021

Appropriation/Budget Activity 0460 / 6	R-1 Program Element (Number/Name) PE 0605118OTE / <i>Operational Test and Evaluation (OT&E)</i>	Project (Number/Name) 000310 / <i>OT&E</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
000310: <i>OT&E</i>	85.685	93.291	100.021	105.394	-	105.394	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Director, Operational Test and Evaluation (DOT&E) was created by Congress in 1983. The Director is responsible under title 10 for policy and procedures for all aspects of Operational Test and Evaluation (OT&E) within the Department of Defense (DoD). Particular focus is given to OT&E that supports major weapon system production decisions for acquisition programs included on the Office of Secretary of Defense Test and Evaluation Oversight List that is prepared and approved annually. Generally, there are about 235 programs on the oversight list including all Major Defense Acquisition Programs (MDAP) and Major Automated Information Systems (MAIS). MDAPs may not proceed beyond low-rate initial production (BLRIP) until OT&E of the program is complete. DOT&E is involved early in the planning phase of each program to ensure adequate testing is planned and executed. Key elements of DOT&E's oversight authority include:

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DOT&E also oversees and resources OT&E community efforts to plan and execute joint operational evaluations of information assurance and interoperability (IA and IOP) of fielded systems and networks during major Combatant Command (CCMD) and Service exercises, and reports the trends and findings in the annual report. DOT&E is also involved in increasing the capacity to access realistically advanced cyber warfighting capabilities to keep pace with heightened demand for those capabilities, advancing technologies and the growing cyber threat.

This Program Element includes funds to obtain Federally Funded Research and Development Center (FFRDC) support in performing the described tasks, travel funds to carry out oversight of the OT&E and IA and IOP programs, funds for Service teams performing information assurance and interoperability assessments during exercises, administrative support services, DFAS support, and engineering and technical support services related to the conduct of OT&E and exercise assessments.

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

	FY 2020	FY 2021	FY 2022
Title: Operational Test and Evaluation	93.291	100.021	105.394
FY 2021 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Operational Test and Evaluation (OT&E) Oversight This effort is in direct support of the Director’s Title 10 responsibilities and is a continuing effort. Funding for Fiscal Year (FY) 2021 provides OT&E inputs for Test and Evaluation Master Plans, Test Plans, System Acquisition Reports, Defense Acquisition Executive Summary Reports for those programs designated for oversight by DOT&E and OUSD(A&S). Key elements of DOT&E oversight authority are identified in Calendar Year 2021 Office of the Secretary of Defense Test and Evaluation Oversight List.</p> <p>Cyber Evaluations DOT&E is sponsoring approximately 30 Combatant Command (CCMD) and Service cybersecurity assessments and Cyber Readiness Campaign (CRC) events in FY 2021, each including “Find-Fix-Verify” efforts to facilitate the remediation of identified vulnerabilities and verify that solutions and mitigations improve warfighter mission assurance. These numbers are lower due to coronavirus (COVID-19) pandemic challenges that cancelled many events. DOT&E is continuing to work with the CCMDs and Services to develop multiyear plans for exercise cyber assessments and CRC events. To support threat representative assessments, and to facilitate improvement of DoD’s cybersecurity posture, DOT&E is continuing efforts with U.S. Cyber Command to implement the Global Persistent Cyber Opposing Force (PCO) capability with authorities to perform year round and long-duration assessments of all CCMDs and Services. Primary objectives for DOT&E’s assessments in FY 2021 include the portrayal of advanced nation-state cyber threats and the assessment of operational missions during realistic cyber attacks, and any corresponding response actions to adversary attacks. DOT&E is continuing to assess Cyber Protection Teams and Cyber Mission Teams when they participate during PCO, CRC, or exercise events. DOT&E is continuing to develop techniques to efficiently and effectively assess offensive cyber capabilities, conduct timely evaluations of these capabilities, and consider the development of a potential cyber variant of the Joint Munition Effectiveness Manual. DOT&E transmits critical findings to DoD leadership along with recommended actions to improve DoD’s cybersecurity posture. FY 2021 evaluations include trend analyses across prior year results, both within and across CCMDs.</p> <p>In FY 2021, DOT&E is investing \$5.0 Million in digital modernization (e.g., automated software and cybersecurity testing, digital engineering, etc.) to engineer and drive pilots designed to move the operational test community into next generation digital technologies and analytic methods at scale.</p> <p>FY 2022 Plans: Operational Test and Evaluation (OT&E) Oversight This effort is in direct support of the Director’s title 10 responsibilities and is a continuing effort. Funding for FY 2022 provides OT&E inputs for Test and Evaluation Master Plans, Test Plans, System Acquisition Reports, Defense Acquisition Executive Summary Reports for those programs designated for oversight by DOT&E and OUSD(A&S). Key elements of DOT&E oversight authority will be identified in Calendar Year 2022 Office of the Secretary of Defense Test and Evaluation Oversight List.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Cyber Evaluations</p> <p>DOT&E plans to sponsor approximately 50 CCMD and Service cybersecurity assessments and CRC events in FY 2022. Each assessment will continue to include "Find-Fix-Verify" efforts to facilitate the remediation of identified vulnerabilities and verify that solutions and mitigations improve warfighter mission assurance. DOT&E plans to continue working with the CCMDs and Services to develop multiyear plans for exercise cyber assessments and CRC events. These plans will focus on assessing the CCMD's or Service's ability to complete missions and be resilient in a contested cyber environment. DOT&E will perform year-round and long duration assessments of all CCMDs and Services with Global PCO authorities. Objectives for DOT&E assessments in FY 2022 will include the portrayal of advanced nation-state cyber threats and the assessment of operational missions during realistic cyber attacks, with supporting offensive fires and cyber-range events included in the evaluation. DOT&E will assess Cyber Protection Teams and Cyber Mission Teams when they participate during PCO, CRC, or exercise events. DOT&E will continue assessments of offensive cyber capabilities. DOT&E will transmit critical findings to DoD leadership along with recommended actions to improve DoD's cybersecurity posture. FY 2022 evaluations will include trend analyses across prior year results, both within and across CCMDs.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></p> <p>The change in funding from FY 21 to FY 22 includes reductions for inflation and travel and the expiration of funding for Cyber Enhanced Red Teams. The change also includes an increase for mid-tier acquisition to support congressionally mandated test and evaluation oversight of all middle tier of acquisition and rapid prototyping programs. This includes the development of independent T&E concepts for such programs, review of programs' test and evaluation strategies, observation of relevant test events to ensure compliance with test plans, independent data analysis and development of reports to Secretary of Defense and Congress on all matters related to test adequacy and demonstrated operational effectiveness, suitability, survivability and lethality.</p>			
Accomplishments/Planned Programs Subtotals	93.291	100.021	105.394

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