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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Operational Test and Evaluation, Defense **Date:** April 2022

Appropriation/Budget Activity 0460: <i>Operational Test and Evaluation, Defense</i> / BA 6: <i>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 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	93.291	113.133	105.394	119.529	-	119.529	123.601	127.056	129.036	130.743	Continuing	Continuing
000310: <i>OT&E</i>	93.291	113.133	105.394	119.529	-	119.529	123.601	127.056	129.036	130.743	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Director, Operational Test and Evaluation (DOT&E) was created by Congress in 1983. The Director is prescribed, by authority of the Secretary of Defense, policies and procedures for the conduct of operational test and evaluation (OT&E) in the Department of Defense (DOD). The Director provides guidance to and consult with the Secretary of Defense, the Under Secretary of Defense for Acquisition and Sustainment, and the Under Secretary of Defense for Research and Engineering and the Secretaries of the military departments with respect to OT&E in the DOD in general and to specific OT&E to be conducted in the department. Generally, there are about 235 programs on the oversight list including all Major Defense Acquisition Programs (MDAP) and programs across each of the six adaptive acquisition pathways. Programs identified as MDAPs for the purposes of test and evaluation 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:

- Approval of component Test and Evaluation Master Plans (TEMPS).
- 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; and assessment of the operational effectiveness, lethality, and suitability of the weapon systems.
- Reporting results of OT&E that support BLRIP decisions to the Secretary of Defense and Congress, and providing an annual report summarizing all OT&E activities and the adequacy of test resources within DOD during the previous fiscal year.
- Review of DOD budgets and financial matters related to OT&E, and recommendations to the Secretary of Defense on all matters relating to operational test facilities and equipment.

DOT&E also oversees and resources OT&E community efforts to plan and execute joint cybersecurity assessments 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 assessing and increasing the capacity of realistically advanced cyber warfighting capabilities to keep pace with heightened demand, 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 cyber assessment programs, funds for Service teams performing information assurance and interoperability assessments during exercises, administrative support services, DFAS support, and engineering and technical support services.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	113.133	105.394	0.000	-	0.000
Current President's Budget	113.133	105.394	119.529	-	119.529
Total Adjustments	0.000	0.000	119.529	-	119.529
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment to Budget Year	-	-	119.529	-	119.529

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding. Increased funding that begins in FY 2023 will expand cybersecurity assessments of artificial intelligence (AI) enabled technologies deployed to CCMDs under the Department's Advanced Data Analytics initiative, increase coverage for Persistent Cyber Operations (PCO) activities, and increase cyber threat realism.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Operational Test and Evaluation, Defense **Date:** April 2022

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 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
000310: <i>OT&E</i>	93.291	113.133	105.394	119.529	-	119.529	123.601	127.056	129.036	130.743	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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DOT&E also oversees and resources OT&E community efforts to plan and execute joint cybersecurity assessments 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 assessing and increasing the capacity of realistically advanced cyber warfighting capabilities to keep pace with heightened demand, 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 cyber assessment programs, funds for Service teams performing information assurance and interoperability assessments during exercises, administrative support services, DFAS support, and engineering and technical support services.

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

	FY 2021	FY 2022	FY 2023
Title: Operational Test and Evaluation	113.133	105.394	119.529
Description: Operational Test and Evaluation (OT&E) Oversight			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>This effort is in direct support of the Director’s Title 10 responsibilities and is a continuing effort. Funding for Fiscal Year 2023 provides OT&E inputs for TEMP’s, TP’s, System Acquisition Reports, and Defense Acquisition Executive Summary Reports for those programs designated for oversight by DOT&E. The Key elements are identified in the DOD Instructions signed by the DOT&E and the Under Secretary of Defense (Research & Evaluation). This also includes funding for congressionally mandated Test & Evaluation (T&E) oversight of all middle tier of acquisition programs and programs utilizing other Accelerated Acquisition authorities. This includes the development of independent T&E concepts for such programs, review of programs’ T&E strategies; observation of relevant test events to ensure compliance with TP’s; 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> <p>FY 2022 Plans: Cyber Evaluations DOT&E plans to sponsor approximately 50 CCMD and Service cybersecurity assessments and Cyber Readiness Campaign (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 cyber-contested environment. DOT&E will perform year-round and long duration assessments of multiple CCMDs and Services with global Persistent Cyber Operations (PCO) authorities, and with US Cyber Command, will work to expand the number of participating CCMDs. 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 also collaborate with the new teams at the CCMDs in conjunction with the Department’s initiative to expedite the integration of AI-enabled technology. As appropriate, DOT&E will incorporate cybersecurity assessments of these emerging technologies during other planned CCMD assessments. DOT&E will transmit critical findings to DOD leadership and Congress along with recommended actions to improve DOD’s cybersecurity posture.</p> <p>FY 2023 Plans: Cyber Evaluations DOT&E plans to sponsor approximately 50 CCMD and Service cybersecurity assessments and Cyber Readiness Campaign (CRC) events in FY 2023. 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.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>These plans will focus on assessing the CCMD's or Service's ability to complete missions and be resilient in a cyber-contested 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 2023 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. Expanded table-top exercises and war games to stress senior-leader decisions with advanced threats not suitable for exercises will also be performed. 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 incorporate cybersecurity assessments of emerging AI-enabled technologies during other planned CCMD assessments. DOT&E will transmit critical findings to DoD leadership and Congress along with recommended actions to improve DoD's cybersecurity posture.</p> <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Increased funding that begins in FY 2023 will expand cybersecurity assessments of AI-enabled technologies deployed to CCMDs under the Department's Advanced Data Analytics initiative, increase coverage for PCO activities, and increase cyber threat realism.</p>			
Accomplishments/Planned Programs Subtotals	113.133	105.394	119.529

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

N/A

Remarks

D. Acquisition Strategy

N/A