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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605712F / <i>Initial Operational Test & Evaluation</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	-	12.582	13.926	13.736	0.000	13.736	14.221	14.571	14.868	15.406	0.000	99.310
660191: <i>Initial Operational Test and Eval</i>	-	12.582	13.926	13.736	0.000	13.736	14.221	14.571	14.868	15.406	0.000	99.310
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The program element funds the Air Force Operational Test and Evaluation Center (AFOTEC) to conduct Congressionally mandated Initial Operational Test and Evaluation (IOT&E) to support major weapon system acquisition decisions beyond Low-Rate Initial Production (LRIP), Milestone C, full rate production, fielding, and declaration of Initial Operational Capability (IOC). For Major Defense Acquisition Programs (MDAP), the law requires IOT&E be completed under realistic operating conditions before proceeding beyond LRIP. IOT&E is planned to answer all critical operational issues (COI) as thoroughly as possible. IOT&E is conducted to determine the operational effectiveness and suitability, and resolve overall mission capability, of systems undergoing research and development (R&D) efforts. It is an evaluation of a system's performance when the complete system is tested and evaluated against operational criteria by personnel with the same qualifications as those who will operate, maintain and support the system when deployed. In general, IOT&E is performed on new systems in development, major modifications, and other systems as directed. This PE also funds participation in Multiservice Operational Test and Evaluation (MOT&E), and Follow-on Operational Test and Evaluation (FOT&E) when it is the continuation of IOT&E activities past the full rate production decision. FOT&E answers specific questions about unresolved COIs and test issues or completes areas not finished during the IOT&E. The PE funds related OT&E activities such as conducting Continuous Operational Testing (COT), Early Influence, agile release tests, Integrated Test and Evaluation (IT&E), Operational Utility Evaluations (OUE), Early Operational Assessments (EOA), Operational Assessments (OA) and operationally realistic valuations of advanced technologies which informs military utility determination. These tests support releases and major milestones and decision points prior to Milestone C, full rate production, fielding, or declaration of IOC. IOT&E programs are identified in four system categories: Air; Weapons; Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR); and Combat Support. This program element is driven by Congressional and DoD acquisition mandated requirements for operational testing. AFOTEC schedules and executes tests according to the forecasted test readiness of the MDAP program offices.

This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	
Previous President's Budget	12.582	13.926	13.873	0.000	13.873	
Current President's Budget	12.582	13.926	13.736	0.000	13.736	
Total Adjustments	0.000	0.000	-0.137	0.000	-0.137	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-0.137	0.000	-0.137	
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2022	FY 2023	FY 2024
Title: Air Systems OT&E				6.985	9.169	5.457
Description: Plan, execute and report OT&E for Air Systems						
FY 2023 Plans:						
-B-52 Commercial Engine Replacement Program (B-52 CERP): Conduct OUE						
-B-52 Radar Modernization Program (B-52 RMP): Conduct OA						
-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conduct IT&E						
-F-15EX: Conduct IT&E						
-F-22 Capability Pipeline: Conduct agile release tests						
-Global Hawk Ground Segment Modernization Program GH GSMP): Complete IOT&E						
-KC-46A: Conduct IOT&E						
-MH-139: Conduct IOT&E						
-T-7A: Complete OA						
-VC-25B: Conduct IT&E						
-Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC						
FY 2024 Plans:						
-B-2 Military Global Positioning System User Equipment (B-2 MGUE): Conduct OT ISO 4 TES						
-E-7A: Conduct Attack Path EX, CVI						
-T-6A ARP: Attack Path EX FY24, FY24-1, CVI, CVI-1, CVPA, CVPA-1						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>-Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Decrease in IOT&E system category Air due to the impact of the revised Department of Defense Manual 65-605V1 which requires that funding of operational test costs that are in excess of \$2 million dollars are to be funded by the acquisition program office not AFOTEC program element 65712F.</p>				
<p>Title: Weapons Systems OT&E</p> <p>Description: Plan, execute and report OT&E for Weapons Systems</p> <p>FY 2023 Plans: -Air Launched Rapid Response Weapon (ARRW): Conduct agile release tests -JDAM M-Code: Conduct agile release tests -Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC</p> <p>FY 2024 Plans: -Joint Air-to-Surface Standoff Missile - Weapons Data Link (JASSM-WDL): Conduct AA, CVPA, IOT&E, MRAP-C, OA -Unified Platform (UP): Conduct agile release tests, AA, CVPA -Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: JASSM-WDL planned testing within FY24 included in budget year estimates</p>		0.453	0.406	1.569
<p>Title: C4ISR Systems OT&E</p> <p>Description: Plan, execute and report OT&E for C4ISR Systems</p> <p>FY 2023 Plans: -Air Force Integrated Personnel and Pay System (AFIPPS): Conduct IOT&E 2 -Distributed Common Ground System (DCGS): Conduct OUE -Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct COT -Integrated Strategic Planning and Analysis Network Increment 5 (ISPAN Inc 5): Conduct OA -Joint Cyber Command and Control (JCC2): Conduct agile release tests -Nuclear Planning and Execution System Recapitalization (NPES): Conduct OA 2 -Survivable Airborne Operations Center (SAOC): Conduct agile release tests</p>		4.159	3.457	4.847

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct early involvement</p> <p>-Unified Platform (UP): Conduct agile release tests</p> <p>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</p> <p>FY 2024 Plans:</p> <p>-Three-Dimensional Expeditionary Long Range Radar (3DELRR): Conduct AA 1 & CVPA TYQ-23 A Interface, AA 2 & CVPA Army IFCN Interface, RF Cyber</p> <p>-Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct Phase 2 OPS DEMO</p> <p>-Joint Cyber Command and Control (JCC2): Conduct AA, CVPA</p> <p>-Survivable Airborne Operations Center (SAOC): Conduct MRAP-C</p> <p>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase from FY23 to FY24 due to continuing existing efforts.</p>				
<p>Title: Combat Support OT&E</p> <p>Description: Plan, execute and report OT&E for Combat Support OT&E</p> <p>FY 2023 Plans:</p> <p>-Common Munitions Built-In Test Reprogramming Equipment Service Life Extension Program (CMBRE SLEP): Conduct OUE</p> <p>-Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B): Conduct agile release tests</p> <p>-Military GPS User Equipment Inc 2 Handheld (MGUE Inc 2 HH): Conduct early involvement</p> <p>-Maintenance, Repair, and Overhaul Initiative (MROI): Conduct FOT&E</p> <p>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</p> <p>FY 2024 Plans:</p> <p>-Air Force Integrated Personnel and Pay System (AFIPPS): Conduct IOT&E</p> <p>-Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B): Conduct IOT&E</p> <p>-Maintenance, Repair, and Overhaul Initiative (MROI): Conduct AA 1, CVPA 1 & 2, OUE</p> <p>-Next Generation Chemical Detection Proximity Chemical Agent Detection (NGCD PCAD): Early Involvement, FA/HIS Testing, DT Chamber Testing</p> <p>-Military GPS User Equipment Inc 2 Handheld (MGUE Inc 2 HH): Conduct early involvement</p>		0.985	0.894	1.863

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC			
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Increase from FY23 to FY24 due to planned early involvement associated with NGCD PCAD.			
Accomplishments/Planned Programs Subtotals	12.582	13.926	13.736

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

E. Acquisition Strategy
N/A