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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	13.926	13.736	14.247	0.000	14.247	14.597	14.896	15.435	15.738	0.000	102.575
660191: <i>Initial Operational Test and Eval</i>	-	13.926	13.736	14.247	0.000	14.247	14.597	14.896	15.435	15.738	0.000	102.575
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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	
Previous President's Budget	13.926	13.736	14.221	0.000	14.221	
Current President's Budget	13.926	13.736	14.247	0.000	14.247	
Total Adjustments	0.000	0.000	0.026	0.000	0.026	
• 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	0.026	0.000	0.026	
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2023	FY 2024	FY 2025
Title: Air Systems OT&E				9.169	5.457	5.079
Description: Plan, execute and report OT&E for Air Systems						
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						
-Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC						
FY 2025 Plans:						
-B-2 Military Global Positioning System User Equipment (B-2 MGUE): Conduct OT ISO 4 TES						
-E-7A: Conduct Attack Path EX, CVI						
-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Contractor Analyst Support, Transportation, Conduct IT&E						
-F-15EX: Conduct IT&E, Test team travel, Support for CVPA, AA						
-F-22 Sensor Enhancement: Contractor Analyst Support, Support for CVPA, Test team travel						
-F-35 Block 4 C2D2: Contractor Analyst Support, Test team travel						
-Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC						
FY 2024 to FY 2025 Increase/Decrease Statement:						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Funding decreased due to greater funding provided from Fighter Program Office in accordance with DAFMAN 65-605 requiring programs with OT in excess of \$2M to include in their program budget.				
<p>Title: Weapons Systems OT&E</p> <p>Description: Plan, execute and report OT&E for Weapons Systems</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> -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>FY 2025 Plans:</p> <ul style="list-style-type: none"> -Joint Air-to-Surface Standoff Missile - Weapons Data Link (JASSM-WDL): Conduct AA, CVPA -Unified Platform (UP): Conduct agile release tests, AA -Air Intercept Missile-9X Sidewinder (AIM-9X Block II): Conduct MOT&E -Hypersonic Attack Cruise Missile (HACM): Measures Development OA -Stand-In Attack Weapon (SiAW): Measures Development OA Plan -SENTINEL (GBSD): Conduct IT&E Test Activity Test team travel, Contractor Analyst Support -Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p> <p>Funding decreased due to delays in Measures Development of OA Plans impacting FY25, as well as test slippage, and Test team travel.</p>		0.406	1.569	1.164
<p>Title: C4ISR Systems OT&E</p> <p>Description: Plan, execute and report OT&E for C4ISR Systems</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> -Three-Dimensional Expeditionary Long Range Radar (3DELRR): Conduct AA 1 & CVPA TYQ-23 A Interface, AA 2 & CVPA Army IFCN Interface, RF Cyber -Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct Phase 2 OPS DEMO -Joint Cyber Command and Control (JCC2): Conduct AA, CVPA -Survivable Airborne Operations Center (SAOC): Conduct MRAP-C 		3.457	4.847	5.437

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</p> <p>FY 2025 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, IOT&E</p> <p>-Advanced Battle Management System Cloud Based Command and Control (ABMS-CBC2): Test Team support AA</p> <p>-Air Operations Center Weapon System Block 20 (AOC WS Block 20): CVPA, AA, IOT&E</p> <p>-Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct/finalize Phase 2 OPS DEMO</p> <p>-Joint Cyber Command and Control (JCC2): Conduct AA, CVPA, IOT&E</p> <p>-Survivable Airborne Operations Center (SAOC): Early Involvement Travel, Planning for MRAP-C, AA, RF Cyber</p> <p>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p> <p>Funding increased due to continuing existing efforts, coupled with increased cost of Cyber testing and Test Team support/travel.</p>				
<p>Title: Combat Support OT&E</p> <p>Description: Plan, execute and report OT&E for Combat Support OT&E</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> <p>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</p> <p>FY 2025 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): MRAP-C, Conduct Obj B Ops Demo, ITD Meeting</p>		0.894	1.863	2.567

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase due to continuing existing efforts, coupled with increased cost of Cyber testing and Test Team support/travel.			
Accomplishments/Planned Programs Subtotals	13.926	13.736	14.247

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

Remarks

E. Acquisition Strategy
N/A