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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Air Force **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605712F / <i>Initial Operational Test &amp; Evaluation</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	-	10.407	12.582	13.926	0.000	13.926	13.873	14.137	14.430	14.750	Continuing	Continuing
660191: <i>Initial Operational Test and Eval</i>	-	10.407	12.582	13.926	0.000	13.926	13.873	14.137	14.430	14.750	Continuing	Continuing
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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	13.532	12.582	0.000	0.000	0.000
Current President's Budget	10.407	12.582	13.926	0.000	13.926
Total Adjustments	-3.125	0.000	13.926	0.000	13.926
• 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	-3.125	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	13.926	0.000	13.926

**Change Summary Explanation**

FY21: Reduction of \$3.125 million for higher AF priorities.

FY23: The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Air Systems OT&E	5.134	6.985	9.169
<b>Description:</b> Plan, execute and report OT&E for Air Systems			
<b>FY 2022 Plans:</b>			
-B-52 Commercial Engine Replacement Program (B-52 CERP): Plan for OUE			
-B-52 Radar Modernization Program (B-52 RMP): Plan for OA			
-Combat Rescue Helicopter (CRH): Conduct IOT&E			
-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): Conduct IOT&E			
-KC-46A: Conduct OA			
-MH-139: Plan for IOT&E			
-T-7A: Conduct OA			
-VC-25B: Conduct IT&E			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>-Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC</p> <p><b>FY 2023 Plans:</b></p> <p>-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&amp;E                      -F-15EX: Conduct IT&amp;E                      -F-22 Capability Pipeline: Conduct agile release tests                      -Global Hawk Ground Segment Modernization Program GH GSMP): Complete IOT&amp;E                      -KC-46A: Conduct IOT&amp;E                      -MH-139: Conduct IOT&amp;E                      -T-7A: Complete OA                      -VC-25B: Conduct IT&amp;E                      -Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b>                      Increased testing requirements</p>				
<p><b>Title:</b> Weapons Systems OT&amp;E</p> <p><b>Description:</b> Plan, execute and report OT&amp;E for Weapons Systems</p> <p><b>FY 2022 Plans:</b></p> <p>-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><b>FY 2023 Plans:</b></p> <p>-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><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b>                      NA</p>		0.733	0.453	0.406
<b>Title:</b> C4ISR Systems OT&E		3.373	4.159	3.457

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Description:</b> Plan, execute and report OT&amp;E for C4ISR Systems</p> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>-Air Force Integrated Personnel and Pay System (AFIPPS): Conduct IOT&amp;E</li> <li>-Air Operations Center Weapon System Modification Program (AOC WS Mod): Conduct agile release tests</li> <li>-Distributed Common Ground System (DCGS): Conduct 2 OUEs</li> <li>-Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct COT</li> <li>-Integrated Strategic Planning and Analysis Network Increment 5 (ISPAN Inc 5): Plan for OA</li> <li>-Joint Cyber Command and Control (JCC2): Conduct agile release tests</li> <li>-Nuclear Planning and Execution System Recapitalization (NPES): Conduct OA</li> <li>-Survivable Airborne Operations Center (SAOC): Conduct agile release tests</li> <li>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct early involvement</li> <li>-Unified Platform (UP): Conduct agile release tests</li> <li>-Wide Area Surveillance (WAS): Conduct FOT&amp;E</li> <li>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2023 Plans:</b></p> <ul style="list-style-type: none"> <li>-Air Force Integrated Personnel and Pay System (AFIPPS): Conduct IOT&amp;E 2</li> <li>-Distributed Common Ground System (DCGS): Conduct OUE</li> <li>-Global Aircrew Strategic Network Terminal (ASNT) Inc 2: Conduct COT</li> <li>-Integrated Strategic Planning and Analysis Network Increment 5 (ISPAN Inc 5): Conduct OA</li> <li>-Joint Cyber Command and Control (JCC2): Conduct agile release tests</li> <li>-Nuclear Planning and Execution System Recapitalization (NPES): Conduct OA 2</li> <li>-Survivable Airborne Operations Center (SAOC): Conduct agile release tests</li> <li>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct early involvement</li> <li>-Unified Platform (UP): Conduct agile release tests</li> <li>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decreased testing requirements</p>				
<b>Title:</b> Combat Support OT&E		1.167	0.985	0.894
<p><b>Description:</b> Plan, execute and report OT&amp;E for Combat Support OT&amp;E</p> <p><b>FY 2022 Plans:</b></p>				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<ul style="list-style-type: none"> <li>-Common Munitions Built-In Test Reprogramming Equipment Service Life Extension Program (CMBRE SLEP): Plan for OUE</li> <li>-Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B): Conduct agile release tests</li> <li>-Military GPS User Equipment Inc 2 Handheld (MGUE Inc 2 HH): Conduct early involvement</li> <li>-Maintenance, Repair, and Overhaul Initiative (MROI): Conduct FOT&amp;E</li> <li>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</li> </ul> <p><b><i>FY 2023 Plans:</i></b></p> <ul style="list-style-type: none"> <li>-Common Munitions Built-In Test Reprogramming Equipment Service Life Extension Program (CMBRE SLEP): Conduct OUE</li> <li>-Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B): Conduct agile release tests</li> <li>-Military GPS User Equipment Inc 2 Handheld (MGUE Inc 2 HH): Conduct early involvement</li> <li>-Maintenance, Repair, and Overhaul Initiative (MROI): Conduct FOT&amp;E</li> <li>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</li> </ul> <p><b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> Decreased testing requirements</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	10.407	12.582	13.926

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

**Remarks**

**E. Acquisition Strategy**  
N/A