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

<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 0605978F / <i>Facilities Sustainment - Test and Evaluation Support</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	-	30.057	31.561	35.065	0.000	35.065	41.225	54.342	53.420	55.290	Continuing	Continuing
6606MR: <i>Facility Sustainment-T&amp;E Support</i>	-	30.057	31.561	35.065	0.000	35.065	41.225	54.342	53.420	55.290	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Provides resources for sustainment activities required for an inventory of Air Force Materiel Command (AFMC) Test and Evaluation (T&E) facilities. Facility sustainment includes regularly scheduled adjustments and inspections, preventative maintenance tasks, and emergency response and service calls for minor repairs. It also includes major repairs or replacement of facility components that have exceeded their useful life. In addition to standard facility sustainment, such as roof replacement, refinishing of wall and floor surfaces, and repairing and replacing of heating and cooling systems, funding in this program element allows for inspections and repairs of heavy plant machinery. Examples of the maintenance work performed are inspection and repair of high-power electrical switching gear, hydraulic, lubrication, forced-air and fluid cooling systems, high pressure vessel health monitoring, facility control and remote monitoring systems, liquid oxygen systems, steam systems, test instrumentation, and fire detection and suppression systems. Other tasks associated with facilities operations (such as custodial services, grass cutting, and landscaping, waste disposal, and the provision of central utilities) are not included. These sustainment funds support the following Air Force organizations and their associated test and evaluation facilities, including: remote locations, the 96th Test Wing (TW) at Eglin AFB, FL, Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, AEDC's 704th Test Group (TG) at Holloman AFB, NM, AEDC's 704 TG Landing Gear Test Facility (LGTf) at Wright-Patterson AFB, OH, AEDC's Hypersonic Wind Tunnel 9 at White Oak, MD, AEDC's National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, CA, AEDC's McKinley Climatic Laboratory (MCL) at Eglin AFB, FL and the 412 Test Wing (TW) at Edwards AFB, CA.

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 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	
Previous President's Budget	30.057	31.561	35.065	0.000	35.065	
Current President's Budget	30.057	31.561	35.065	0.000	35.065	
Total Adjustments	0.000	0.000	0.000	0.000	0.000	
• 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	0.000	0.000	0.000	
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>				<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Facility sustainment at the 96 TW.				1.011	1.079	1.102
<b>Description:</b> Facility sustainment at the 96 TW.						
<b>FY 2023 Plans:</b> Continue to work through Direct Scheduled Work Orders (DSWs) within the test infrastructure.						
<b>FY 2024 Plans:</b> Continue to work through Direct Scheduled Work Orders (DSWs) within the test infrastructure.						
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase due to non-pay non-fuel inflation						
<b>Title:</b> Facility sustainment at the AEDC.				26.328	27.581	31.001
<b>Description:</b> Facility sustainment at the AEDC.						
<b>FY 2023 Plans:</b> Continue to perform calendar based scheduled preventative maintenance on Engine Test Facility Plant and associated engine test cells, Propulsion Wind Tunnel Plant and associated wind tunnels, Von Karman Facility (VKF) Plant Core and associated test cells, arc heaters, rocket test facility, space chambers, and hypersonic engine test facilities, along with associated infrastructure that supports all test operations. Sustainment project includes painting buildings, carpet replacement, heating, ventilation, air conditioning (HVAC) repairs and roof repairs throughout the 704 TG.						
<b>FY 2024 Plans:</b>						

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>AEDC will continue to perform calendar based scheduled preventative maintenance on Engine Test Facility Plant and associated engine test cells, Propulsion Wind Tunnel Plant and associated wind tunnels, Von Karman Facility (VKF) Plant Core and associated test cells, arc heaters, rocket test facility, space chambers, and hypersonic engine test facilities, along with associated infrastructure that supports all test operations. Sustainment project includes painting buildings, carpet replacement, heating, ventilation, air conditioning (HVAC) repairs and roof repairs throughout the 704 TG.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$2.75 million for hypersonics infrastructure facility sustainment particularly the 16S facility at AEDC as well as non-pay non-fuel inflation.</p> <p><b>Title:</b> Facility sustainment at the 412 TW.</p> <p><b>Description:</b> Facility sustainment at the 412 TW.</p> <p><b>FY 2023 Plans:</b> Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&amp;E facilities located at Edwards AFB, CA.</p> <p><b>FY 2024 Plans:</b> Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&amp;E facilities located at Edwards AFB, CA.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase due to non-pay non-fuel inflation</p>	2.718	2.901	2.962
<b>Accomplishments/Planned Programs Subtotals</b>	30.057	31.561	35.065

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	
• RDTE 06 0606398F: <i>Management HQ - T&amp;E</i>	7.263	6.285	7.453	-	7.453	7.481	7.639	7.801	8.159	Continuing	Continuing
• RDTE 06 0605807F: <i>Test and Evaluation Support</i>	811.032	841.854	913.213	-	913.213	892.125	1,005.821	1,063.898	1,116.911	Continuing	Continuing
• RDTE 06 0605976F: <i>Facilities Restoration and Modernization - Test and Evaluation Support</i>	70.788	133.420	87.889	-	87.889	94.662	217.556	202.455	209.540	Continuing	Continuing

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• RDTE 06 0604256F: <i>Threat Simulator Development</i>	46.393	21.067	16.262	-	16.262	20.391	42.980	49.100	50.876	Continuing	Continuing
• RDTE 06 0604759F: <i>Major T&amp;E Investment</i>	128.708	1,713.140	31.143	-	31.143	74.096	208.545	480.460	497.846	Continuing	Continuing

**Remarks**

**E. Acquisition Strategy**

N/A