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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 0605976F / <i>Facilities Restoration and Modernization - 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	-	70.788	133.420	87.889	0.000	87.889	94.662	217.566	202.455	209.540	Continuing	Continuing
6606MC: <i>Facility Restoration and Modernization - T&amp;E</i>	-	70.788	133.420	87.889	0.000	87.889	94.662	217.566	202.455	209.540	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Restoration includes repair and replacement work to restore damaged facilities due to accident or failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new, higher standard (including regulatory changes), to accommodate new functions, or to replace building components that typically last more than 50 years (such as foundations and structural components). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. These restoration/modernization funds support the following Air Force test 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, including AEDC's 704th Test Group (TG) at Holloman AFB, NM, 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 Lab (MCL) at Eglin AFB, FL, and the 412th 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.

<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	70.788	77.820	93.723	0.000	93.723
Current President's Budget	70.788	133.420	87.889	0.000	87.889
Total Adjustments	0.000	55.600	-5.834	0.000	-5.834
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	55.600			
• 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	-5.834	0.000	-5.834

**Change Summary Explanation**

FY 2024: The FY 2024 funding request was reduced by \$5.834 million to account for the availability of prior year execution balances.

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<p align="center">FY 2023: Congressional add of \$55.600 million in support of Hypersonic test infrastructure at Arnold Air Force Base.</p>				
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Title:</b> Facility restoration and modernization at the 96 TW</p> <p><b>Description:</b> Facility restoration and modernization at the 96th TW.</p> <p><b>FY 2023 Plans:</b> Continue Restoration and Modernization (R&amp;M) efforts across the range complex including Heating, Ventilation and Air Conditioning (HVAC) systems, repair/replace lightning protection systems, repair/replace fire protection systems and corrosion control. Close capability gaps for Hypersonics intercept, reusable vehicles, boost glide and store separation.</p> <p><b>FY 2024 Plans:</b> Continue Restoration and Modernization (R&amp;M) efforts across the range complex including Heating, Ventilation and Air Conditioning (HVAC) systems, repair/replace lightning protection systems, repair/replace fire protection systems and corrosion control.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> N/A</p>		7.686	8.309	8.482
<p><b>Title:</b> Facility restoration and modernization at AEDC</p> <p><b>Description:</b> Facility restoration and modernization at AEDC.</p> <p><b>FY 2023 Plans:</b> Repair and replacement of AEDC's aging electrical and plumbing systems critical to test execution and installation and improvement of safety features such as fire suppression and warning systems.</p> <p><b>FY 2024 Plans:</b> With the additional restoration and modernization funding targeting hypersonic test capabilities, AEDC will start several multi-year restoration efforts to include: Propulsion Wind Tunnel 16S Compressor Modernization and facility restoration, developing a common solid rocket motor cradle to reduce cost and schedule delays, and improve and modernize optical test systems in supersonic and hypersonic wind tunnels.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY23 to FY24: Decrease of \$45.9 million due to one time FY23 Congressional add for hypersonic test infrastructure coupled with a FY24 \$10 million increase for hypersonic restoration and modernization as a result of the FY23 and FY24 budget cycles.</p>		54.578	115.562	69.660
<p><b>Title:</b> Facility restoration and modernization at 412 TW</p>		8.524	9.549	9.747

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Description:</b> Facility restoration and modernization at the 412 TW.			
<b>FY 2023 Plans:</b> Continuation of the upgrade and restoration of T&E facilities. Areas of effort include repair and modernization of electrical system components, address fire safety deficiencies, continue seismic upgrades, and address other restoration and modernization needs throughout the test wing.			
<b>FY 2024 Plans:</b> Continuation of the upgrade and restoration of T&E facilities. Areas of effort include repair and modernization of electrical system components, address fire safety deficiencies, continue seismic upgrades, and address other restoration and modernization needs throughout the test wing. AEDC will start several multi-year restoration efforts to enhance hypersonic test capabilities.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase due to non-pay, non-fuel inflation			
<b>Accomplishments/Planned Programs Subtotals</b>	70.788	133.420	87.889

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
			<b>Base</b>	<b>OCO</b>	<b>Total</b>						
• 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 0605978F: <i>Facilities Sustainment - Test and Evaluation Support</i>	30.057	31.561	35.065	-	35.065	41.225	54.342	53.420	55.290	Continuing	Continuing
• RDTE 06 0604256F: <i>Threat Simulator Development</i>	46.393	21.067	16.626	-	16.626	20.391	42.980	49.100	50.876	Continuing	Continuing
• RDTE 06 0604759F: <i>Major T&amp;E Investment</i>	128.708	44.714	31.143	-	31.143	74.096	208.545	480.460	497.846	Continuing	Continuing

**Remarks**

**E. Acquisition Strategy**  
N/A.