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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 0605976F / <i>Facilities Restoration and Modernization - Test and Evaluation Support</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	-	133.420	87.889	94.828	0.000	94.828	218.485	211.294	250.223	237.553	Continuing	Continuing
6606MC: <i>Facility Restoration and Modernization - T&E</i>	-	133.420	87.889	94.828	0.000	94.828	218.485	207.447	213.847	217.840	Continuing	Continuing
6606TS: <i>Test and Evaluation Support*</i>	-	0.000	0.000	0.000	0.000	0.000	0.000	3.847	36.376	19.713	Continuing	Continuing

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2025

A. Mission Description and Budget Item Justification

Restoration includes repair and replacement work to restore damaged facilities caused by accident or failure attributed to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement updates, improved standards (including regulatory and engineering changes), to accommodate new functions, or to replace aging building components. For example, foundations and structural components (which typically last more than 50 years). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. Restoration/modernization funds support the following Air Force test organizations and their associated test and evaluation facilities, including: 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; 96TW's McKinley Climatic Lab (MCL) at Eglin AFB, FL; the 412th TW at Edwards AFB, CA; and remote locations.

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	133.420	87.889	94.662	0.000	94.662
Current President's Budget	133.420	87.889	94.828	0.000	94.828
Total Adjustments	0.000	0.000	0.166	0.000	0.166
• 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	0.166	0.000	0.166

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 6					R-1 Program Element (Number/Name) PE 0605976F / <i>Facilities Restoration and Modernization - Test and Evaluation Support</i>				Project (Number/Name) 6606MC / <i>Facility Restoration and Modernization - T&E</i>			
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
6606MC: <i>Facility Restoration and Modernization - T&E</i>	-	133.420	87.889	94.828	0.000	94.828	218.485	207.447	213.847	217.840	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Restoration includes repair and replacement work to restore damaged facilities caused by accident or failure attributed to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement updates, improved standards (including regulatory and engineering changes), to accommodate new functions, or to replace aging building components. For example, foundations and structural components (which typically last more than 50 years). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. Restoration/modernization funds support the following Air Force test organizations and their associated test and evaluation facilities, including: 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; 96TW's McKinley Climatic Lab (MCL) at Eglin AFB, FL; the 412th TW at Edwards AFB, CA; and remote locations.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Facility restoration and modernization at the 96 TW	8.309	8.482	8.637
Description: Facility restoration and modernization at the 96th TW.			
FY 2024 Plans: Continue Restoration and Modernization (R&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.			
FY 2025 Plans: Continue Restoration and Modernization (R&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.			
FY 2024 to FY 2025 Increase/Decrease Statement: N/A			
Title: Facility restoration and modernization at AEDC	115.562	69.660	76.259
Description: Facility restoration and modernization at AEDC.			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> 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><i>FY 2025 Plans:</i> 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><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The increase from FY24 to FY25 reflects a \$6 million reduction to FY24 to account for the availability of prior year execution balances.</p>				
<p><i>Title:</i> Facility restoration and modernization at 412 TW</p> <p><i>Description:</i> Facility restoration and modernization at the 412 TW.</p> <p><i>FY 2024 Plans:</i> 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.</p> <p><i>FY 2025 Plans:</i> 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.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> N/A</p>		9.549	9.747	9.932
Accomplishments/Planned Programs Subtotals		133.420	87.889	94.828

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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 06 0606398F: <i>Management HQ - T&E</i>	7.535	7.453	7.647	-	7.647	7.788	7.950	8.297	8.457	Continuing	Continuing
• RDTE 06 0605807F: <i>Test and Evaluation Support</i>	842.401	913.213	936.913	-	936.913	1,088.746	1,273.317	1,316.674	1,368.799	Continuing	Continuing
• RDTE 06 0605978F: <i>Facilities Sustainment - Test and Evaluation Support</i>	31.561	35.065	63.579	-	63.579	92.273	173.434	176.909	180.417	Continuing	Continuing
• RDTE 06 0604256F: <i>Threat Simulator Development</i>	20.835	16.626	19.927	-	19.927	43.055	49.189	50.969	51.974	Continuing	Continuing
• RDTE 06 0604759F: <i>Major T&E Investment</i>	169.432	31.143	74.228	-	74.228	208.911	282.949	278.682	274.774	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A.