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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 0605978F / <i>Facilities Sustainment - 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	-	31.561	35.065	63.579	0.000	63.579	92.273	173.434	176.909	180.417	Continuing	Continuing
6606MR: <i>Facility Sustainment-T&E Support</i>	-	31.561	35.065	63.579	0.000	63.579	92.273	92.108	94.759	96.651	Continuing	Continuing
6606TS: <i>Test and Evaluation Support*</i>	-	0.000	0.000	0.000	0.000	0.000	0.000	81.326	82.150	83.766	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

Provides resources for sustainment activities required for an inventory of Air Force Material 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 are expected to occur periodically. 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, this work includes inspections and repairs of heavy plant machinery in large industrial facilities. This work includes, but is not limited to, 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, 704th Test Group (TG) at Holloman AFB, NM, the 96th Test Wing (TW) at Eglin AFB, FL, Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, the 412 Test Wing (TW) at Edwards AFB, CA, 704 TG Landing Gear Test Facility (LGTF) at Wright-Patterson AFB, OH, AEDC's Hypersonic Wind Tunnel 9 at White Oak, MD, and AEDC's National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, 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. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	31.561	35.065	41.225	0.000	41.225
Current President's Budget	31.561	35.065	63.579	0.000	63.579
Total Adjustments	0.000	0.000	22.354	0.000	22.354
• 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	22.354	0.000	22.354

Change Summary Explanation

A net increase of \$22.354 million is due to APPN 3400 to APPN 3600 funding transfer of \$22.236 million to support real property and non-pay non-fuel inflation.

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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 0605978F / <i>Facilities Sustainment - Test and Evaluation Support</i>				Project (Number/Name) 6606MR / <i>Facility Sustainment-T&E Support</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
6606MR: <i>Facility Sustainment-T&E Support</i>	-	31.561	35.065	63.579	0.000	63.579	92.273	92.108	94.759	96.651	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, 96TW's McKinley Climatic Laboratory (MCL) at Eglin AFB, FL and the 412 Test Wing (TW) at Edwards AFB, CA.

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

	FY 2023	FY 2024	FY 2025
Title: Facility sustainment at the 96 TW.	1.079	1.102	3.451
Description: Facility sustainment at the 96 TW.			
FY 2024 Plans: Continue to work through Direct Scheduled Work Orders (DSWs) within the test infrastructure.			
FY 2025 Plans: Continue to work through Direct Scheduled Work Orders (DSWs) within the test infrastructure.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase of \$2.418 million is due to APPN 3400 to APPN 3600 to support real property.			
Title: Facility sustainment at the AEDC.	27.581	31.001	39.508
Description: Facility sustainment at the AEDC.			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> 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><i>FY 2025 Plans:</i> AEDC will continue to perform calendar based scheduled preventative maintenance on Engine Test Facility Plant and associated engine test cells, Propulsion Wind Tunnel (PWT) 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 projects includes Central Inertial and GPS Test Facility (CIGTF) renovations, proactive maintenance for Space Test Unit (J6), Aerodynamic and Propulsion Test Unit (APTU) (for hypersonics ground test), and test utility maintenance.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase of \$2.433 million is due to APPN 3400 to APPN 3600 to support real property.</p>			
<p><i>Title:</i> Facility sustainment at the 412 TW.</p> <p><i>Description:</i> Facility sustainment at the 412 TW.</p> <p><i>FY 2024 Plans:</i> Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA.</p> <p><i>FY 2025 Plans:</i> Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase of \$17.603 million is due to APPN 3400 to APPN 3600 to support real property.</p>	2.901	2.962	20.620
Accomplishments/Planned Programs Subtotals	31.561	35.065	63.579

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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>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</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 0605976F: <i>Facilities Restoration and Modernization - Test and Evaluation Support</i>	133.420	87.889	94.828	-	94.828	218.485	211.294	250.223	237.553	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