

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

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>							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	88.445	70.856	70.788	0.000	70.788	-	-	-	-	-	-
6606MC: <i>Facility Restoration and Modernization - T&E</i>	-	88.445	70.856	70.788	0.000	70.788	-	-	-	-	-	-
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. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	88.445	70.985	70.622	0.000	70.622
Current President's Budget	88.445	70.856	70.788	0.000	70.788
Total Adjustments	0.000	-0.129	0.166	0.000	0.166
• Congressional General Reductions	0.000	-0.129			
• 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

Change Summary Explanation

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force		Date: May 2021		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Title: Facility restoration and modernization at the 96 TW</p> <p>Description: Facility restoration and modernization at the 96th TW.</p> <p>FY 2021 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. Includes \$1.8 million provided to assist with natural disaster recovery efforts associated with Hurricane Michael.</p> <p>FY 2022 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.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 increase of \$1 million is a result of FSRM Baseline respread.</p>		3.375	6.673	7.686
<p>Title: Facility restoration and modernization at AEDC</p> <p>Description: Facility restoration and modernization at AEDC.</p> <p>FY 2021 Plans: Complete execution of the three remaining AEDC SLEPs to restore and modernize the Propulsion Wind Tunnel (PWT), Von Karmen Facility (VKF), & Engine Test Facility (ETF) infrastructure. Continue construction/installation of FY21 SLEP efforts using Facilities Acquisitions for Restoration and Modernization (FARM) and other contracts. Continue to perform second and third level maintenance to restore ground test facilities to operational status. Complete restoration of the J-5 Exhaust system. Continue refurbish of VKF valves to ensure continued operation of Tunnels A, B, & C. AEDC will fund the Landing Gear Test Facility (LGTF) Control System Modernization for the 84" and 120" dynamotor and the Tire Force Machine (TFM); the National Radar Cross Section (RCS) Test Facility (NRTF) Fire Protection Reservoir Liner; and Replace the HVAC for the Central Inertial GPS Test Facility (CIGTF) machine shop and industrial complex.</p> <p>FY 2022 Plans: With the completion of the FY17 SLEP projects, AEDC resumes a baseline posture of addressing facility restoration and modernization across the wing such as repair and replacement of aging electrical and plumbing systems critical to test execution and installation and improvement of safety features such as fire suppression and warning systems. The increase of \$1.3M from FY21 to FY22 is due to a \$6.4 million hypersonic infrastructure modernization investment.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>		79.771	58.607	54.578

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
--	-----------------------

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>
---	---

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
FY22 decrease of \$4 million is a result of FSRM Baseline respread.			
Title: Facility restoration and modernization at 412 TW	5.299	5.576	8.524
Description: Facility restoration and modernization at the 412 TW.			
FY 2021 Plans: Continuation of the upgrade and restoration of T&E facilities, such as but not limited to, Hydraulic Unit Upgrade B1030; Power Supply for System Under Test Power B1030; modernize electrical system components that have reached end of service life B1020; remediate B1830 fire safety deficiencies; and Seismic upgrade.			
FY 2022 Plans: 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.			
FY 2021 to FY 2022 Increase/Decrease Statement: FY22 increase of \$3 million is a result of FSRM Baseline respread.			
Accomplishments/Planned Programs Subtotals	88.445	70.856	70.788

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 06 PE 0604256F: <i>Threat Simulator Development</i>	58.906	57.620	41.909	-	41.909	-	-	-	-	-	-
• RDTE 06 PE 0604759F: <i>Major T&E Investment</i>	106.014	208.299	130.766	-	130.766	-	-	-	-	-	-
• RDTE 06 PE 0605807F: <i>Test and Evaluation Support</i>	795.626	761.307	811.032	-	811.032	-	-	-	-	-	-
• RDTE 06 PE 0605978F: <i>Facility Sustainment - T&E Support</i>	29.424	29.826	30.057	-	30.057	-	-	-	-	-	-

Remarks

E. Acquisition Strategy
N/A.