

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force	Date: March 2014
----------------------------------------------------------------------------	-------------------------

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>I Facilities Restoration and Modernization - Test and Evaluation Support</i>							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	38.854	44.160	46.955	-	46.955	40.787	43.319	44.157	44.723	Continuing	Continuing
6606MC: <i>Facility Restoration and Modernization - T&E</i>	-	38.854	44.160	46.955	-	46.955	40.787	43.319	44.157	44.723	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

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, 96th Test Group (TG) at Holloman AFB, NM, the 96th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, the 412th TW at Edwards AFB, CA, 96 TG Landing Gear Test Facility (LGTf) at Wright-Patterson AFB, OH, Hypersonic Wind Tunnel 9 at White Oak, MD, and the National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, CA.

Budget Activity Justification: This program element 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	42.597	44.160	43.765	-	43.765
Current President's Budget	38.854	44.160	46.955	-	46.955
Total Adjustments	-3.743	-	3.190	-	3.190
• Congressional General Reductions	-0.057	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-3.686	-	3.190	-	3.190

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support		R-1 Program Element (Number/Name) PE 0605976F I Facilities Restoration and Modernization - Test and Evaluation Support		
Change Summary Explanation FY13: Reduction of \$3.743M due to FY13 sequester; deferred material purchase (parts/spares) for repair and restoral projects. FY15: Increase due to AF strategic decision to restore test capability funding according to revised strategies and DoD priorities.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Title: Facility restoration and modernization at the 96 TG Description: Facility restoration and modernization at the 96th TG. FY 2013 Accomplishments: Renovated bathrooms at the Central Inertial and Global Positioning Satellite (GPS) Test Facility (CIGTF). Upgraded carpet and ceilings in information technology office. Replaced hydraulic cylinders at National Radar Cross Section (RCS) Test Facility (NRTF). Modernized foundations and structural components at NRTF. FY 2014 Plans: Restore deteriorated High Speed Test Track (HSTT) building. Continue bathroom renovation and install new windows in 1950s era building at the CIGTF. Repair and improve road used to transport weapons from munitions facility to aircraft. FY 2015 Plans: Upgrade and remodel calibration pit at NRTF. Restore and modernize 168i Dynamometer at the Landing Gear Test Facility (LGTF). Install structures to shelter High Power Jammers at CIGTF.		0.816	0.827	0.431
Title: Facility restoration and modernization at the 96 TW Description: Facility restoration and modernization at the 96th TW. FY 2013 Accomplishments: Repainted two Methyl Chloride Tanks at Climatic Lab. Built two additional munitions storage igloos at Range Complex C-74. Designed and planned relocation of High Explosive Incendiary (HEI) firing range from Range Location C-52. Installed entry control system for the Design and Development Facility at 96 Test Support Squadron (TSS). Installed target shelter for target support maintenance and repair. Replaced threat seekers at the Guided Weapons Evaluation Facility (GWEF). Replaced three radar C-Band transponders. Replaced 10 range access gates. FY 2014 Plans: Construct concrete berms under Air Management Unit-1 (AMU-1) at Climatic Lab. Renovate Room R-139 in GWEF to support infrared (IR) test. Install 3-phase power to Building (Bldg) 628. Replace wooden steps for Bldg 133. Replace remaining Flight		2.351	2.387	1.210

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014		
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>I Facilities Restoration and Modernization - Test and Evaluation Support</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Motion simulator controllers at GWEF. Replace roof at Bldg 9307. Repair fire suppression system for Bldg 12555. Renovate facility for Bldg 961.				
FY 2015 Plans: Continue Range Environmental Protection and small Restoration and Modernization (R&M) efforts across the range complex.				
Title: Facility restoration and modernization at AEDC Description: Facility restoration and modernization at AEDC.		31.443	36.640	43.566
FY 2013 Accomplishments: Continued to recertify Pressure and Hazardous Material Systems (PHMS). Continued planning for Test Utility Power System Upgrades for new supervisory control and data acquisition (SCADA) system. Replaced C-Plant RC11 water coils, repaired trichloroethylene (TCE) coolant lines, repair R12 freon systems, replaced reefer unit motors and gear sets. Repaired C-Plant ventilation in Test Cells C-1 and C-2. Replaced arc heater hydrogen (H2) diffuser, upgraded H2 mixing chamber and upgraded conical high-enthalpy nozzles. Refurbished five Plenum Evacuation System compressor rotors.				
FY 2014 Plans: Continue FY13 efforts that were deferred or not completed. Continue to recertify Pressure and Hazardous Material Systems (PHMS). Procure engine test cell C-1 and C-2 digital temperature scanners. Upgrade power distribution and control for arc heater model positioning system. Replace Von Karman Facility (VKF) cooler #HPA-HE1-VU (111) and compressor C111. Replace throttles in engine test cells C-1, C-2, J-1, J-2, SL-2, SL-3 and T-4. Refurbish C-Plant hydraulic systems 1-6 and 9-18.				
FY 2015 Plans: Continue FY14 efforts not completed or that were multiyear. Continue upgrading control systems from analog to digital in the Exhaust Test Facility. Continue planning to improve the exhaust plant cooling systems. Continue work to improve the 16T wind tunnel Foreign Object Damage (FOD) fix effort. Improve balances and calibration systems.				
Title: Facility restoration and modernization at 412 TW Description: Facility restoration and modernization at the 412 TW.		4.244	4.306	1.748
FY 2013 Accomplishments: Planned replacement of the Benefield Anechoic Facility (BAF) Radar Absorbent Material (RAM) in two increments. Replaced Integrated Facility for Avionics Systems Testing (IFAST) 400Hz frequency converters. Replaced the Polyalphaolefin (PAO) system in Building 1030. Converted the deluge system to a high expansion foam system.				
FY 2014 Plans:				

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 6: <i>RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0605976F <i>I Facilities Restoration and Modernization - Test and Evaluation Support</i>							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Continue restoring and modernizing electronic warfare and test range facilities to include projects for roofing, heating and air conditioning, windows, doors, floors, work area re-zoning, transformers and power systems, fire suppression systems, seismic upgrades, and RAM replacement.												
Continue planning replacement of the BAF RAM in two increments. Replace IFAST 400Hz frequency converters.												
FY 2015 Plans: Continue restoring and modernizing electronic warfare and test range facilities to include projects for roofing, heating and air conditioning, windows, doors, floors, work area re-zoning, transformers and power systems, fire suppression systems, seismic upgrades, and RAM replacement.												
Continue planning replacement of the BAF RAM in two increments. Continue replacement of IFAST 400Hz frequency converters.												
Accomplishments/Planned Programs Subtotals										38.854	44.160	46.955
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• RDTE: BA06: PE 0604256F: <i>Threat Simulator Development</i>	22.348	14.841	24.418	-	24.418	24.003	22.020	22.436	22.833	Continuing	Continuing	
• RDTE: BA06: PE 0604759F: <i>Major T&E Investment</i>	33.968	32.341	47.232	-	47.232	68.755	67.374	68.690	69.998	Continuing	Continuing	
• RDTE: BA06: PE 0605807F: <i>Test and Evaluation Support</i>	670.586	722.658	689.509	-	689.509	672.427	680.719	688.020	700.796	Continuing	Continuing	
• RDTE: BA06: PE 0605978F: <i>Facility Sustainment - T&E Support</i>	24.986	27.643	32.965	-	32.965	28.080	28.598	29.154	29.623	Continuing	Continuing	
Remarks												
E. Acquisition Strategy N/A												
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												