

**UNCLASSIFIED**

PE NUMBER: 0605976F

PE TITLE: Facility Restoration and Modernization - T&E

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>06 RDT&amp;E Management Support</b>	<b>PE NUMBER AND TITLE</b> <b>0605976F Facility Restoration and Modernization - T&amp;E</b>
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	55.473	59.750	46.234	55.305	49.664	50.573	52.025	Continuing	TBD
06MC Facility Restoration and Modernization - T&E	55.473	59.750	46.234	55.305	49.664	50.573	52.025	Continuing	TBD

FY2008 funding totals do not include \$1.610 FY2008 GWOT requirements still pending Congressional consideration.

**(U) A. Mission Description and Budget Item Justification**

FY2008 funding totals do not include \$1.610M FY2008 GWOT requirements still pending Congressional consideration.

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 facilities: 46th Test Group (TG) at Holloman AFB, NM, the 46th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Center (AEDC) at Arnold AFB, TN and the Air Force Flight Test Center (AFFTC) at Edwards AFB.

**Budget Activity Justification:**

This program element is in Budget Activity 6, RDT&E Management Support, because it funds the restoration/modernization of the institutional test infrastructure at the Air Force test activities which are included in the Department of Defense (DoD) Major Range and Test Facility Base (MRTFB).

**(U) B. Program Change Summary (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	55.472	59.131	46.592
(U) Current PBR/President's Budget	55.473	59.750	46.234
(U) Total Adjustments	0.001	0.619	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.381	
Congressional Increases		1.000	
Reprogrammings	0.001		
SBIR/STTR Transfer			

**(U) Significant Program Changes:**

FY08: Congressional Add: \$1M for Internal Base Facility Energy Independence - Wind Turbine

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2008**

<b>BUDGET ACTIVITY</b> <b>06 RDT&amp;E Management Support</b>				<b>PE NUMBER AND TITLE</b> <b>0605976F Facility Restoration and Modernization - T&amp;E</b>			<b>PROJECT NUMBER AND TITLE</b> <b>06MC Facility Restoration and Modernization - T&amp;E</b>		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
06MC Facility Restoration and Modernization - T&E	55.473	59.750	46.234	55.305	49.664	50.573	52.025	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

- (U) **A. Mission Description and Budget Item Justification**  
 FY2008 funding totals do not include \$1.610M FY2008 GWOT requirements still pending Congressional consideration. 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 facilities: 46th Test Group (TG) at Holloman AFB, NM, the 46th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Center (AEDC) at Arnold AFB, TN and the Air Force Flight Test Center (AFFTC) at Edwards AFB.
- Budget Activity Justification:  
 This program element is in Budget Activity 6, RDT&E Management Support, because it funds the restoration/modernization of the institutional test infrastructure at the Air Force test activities which are included in the Department of Defense (DoD) Major Range and Test Facility Base (MRTFB).
- (U) **B. Accomplishments/Planned Program (\$ in Millions)**
- |  |                |                |                |
|--|----------------|----------------|----------------|
|  | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
| (U) Accomplishments/Planned Program:   |                |                |                |
| (U) 46TG: Projects include RCS Advanced Measurement System (RAMS) Range Surface Reseal and Pit 3 440 volt cable replacement at the 781st TS, Building 1265 HVAC Controls Renovation at 746th TS, insulate HVAC in Building 1604 at the 846th TS, Hangar Door Installation at the 586th FLTS, and general restoration and modernization planning and design.  | 1.167          |                |                |
| (U) 46TG: Projects include Building 1265 HVAC at the 746th TS, replace RAMS Silo Roof Air Bag at 781st TS, repave Camera Pad & Connectors Phase 1 at the 846th TS and general restoration and modernization planning and design.   |                | 1.215          |                |
| (U) 46TG: Projects include NRTF Mainsite Roof Replacement and Mobile Target Shelter Refurbishment at the 781st TS, building 1261 HVAC Replacement at the 746th TS, repave Camera Pad & Connectors Phase 2 at the 846th TS and general restoration and modernization planning and design.   |                |                | 0.814          |
| (U) 46TW: The 46th Test Wing has an excess of 200 restoration/modernization projects effecting T&E facilities to include but not limited to the following categories: roofing, windows & doors, roads, fire protection, erosion, and HVAC. Some of these restoration/modernization projects include: replace 20+ year old CATV system between C-7 Control and C-7A Launch Facility with fiber optic cable system. Replace 20+ year old CATV system on Range 72 | 4.238          |                |                |

Exhibit R-2a, RDT&E Project Justification		DATE <b>February 2008</b>		
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		<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
<p>(U) <b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b></p> <p>with fiber optic cable system. Replace fabric on E294, the Hellfire hanger. Replace safety rails on stairs and roof of Bldg 8550. Bldg 440-MCL Icing Capability upgrade, B-70 MANPAD facility upgrade, Bldg 9521 Replace HVAC, Bldg 440 repair/upgrade lightening protection system, Bldg 9371 upgrade HVAC service power panel. Replace Condenser Coils on 80-Ton Chiller Unit for Radar (Bldg 9960). Enclose heavy equipment pole barn at RMT. Completion of C-72 Hellfire high speed video tracker upgrades, C-64 200M gun range facility upgrades, KEMTF facility upgrades, A-30/31 facility upgrade &amp; modernization. Replace potable water/fire suppression system TS A-30 and A-31. Replace control building TS A-30. Replace roof Bldg 963. Replace C-72 high performance video tracker domes. Design fire suppression system Bldg 8320. Renovate and reclaim lab space Bldg 22. Replace septic system Bldg 9287. General restoration and modernization planning and design.</p>				
<p>(U) 46TW: Replace roof of building 8970 at TA B-70 control site. Rework parking area to enhance drainage at TA B-70 control site. Install fiber-optic cable to service building 9300 at TA B-70 control site. Upgrade/replace/install lightening protection of test range facilities. Paint/refurbish exterior of building 963 and general restoration and modernization planning and design.</p>			2.474	
<p>(U) 46TW: Upgrade/replace/install lightening protection of test range facilities. Restoration/modernization projects effecting T&amp;E facilities to include but not limited to the following categories: roofing, windows &amp; doors, roads, fire protection, corrosion control, erosion, fencing, and HVAC replacement/upgrades, minor construction/reconstruction of test facilities. Continue evaluation and implementation of mitigation efforts for site protection to critical test sites. Continue with fiber optic cable installation and interconnectivity infrastructure to enhance communications, data transfer and instrumentation.</p>				2.307
<p>(U) AEDC: Projects to revitalize the Engine Test Facilities, Propulsion Wind Tunnels, Von Karmon Test Facilities, and Space and Missile chambers located at Arnold AFB, TN, the National Full-Scale Aerodynamic Complex (NFAC) located at NASA Ames Reserach Center, CA, and Tunnel 9 located at White Oak, Maryland. Projects to restore and modernize the supporting plant facilities and to perform project specific planning and design. Also includes large-scale projects that directly support engine development, the Joint Strike Fighter program, hypersonic programs, the Missile Defense Agency, and spacecraft test and evaluation.</p>		45.947	50.898	38.968
<p>(U) AFFTC: Projects include designing costs for FY08 multiple projects, repairing HVAC chillers at Ridley Mission Control Center Bldg 1440; repairing retrofit CFC-11 chillers Phase 2 Bldg 1020; conception study for Bldg 1020 seismic upgrade; conception study for Bldg 1030 seismic upgrade; upgrading room 204B to top secret (TS) security authorization request (SAR) Bldg 1030; repairing roof at Bldg 1830 Weight and Balance Facility; and RAM replacement Bldg 1030. Replace Computer Floor Tile &amp; Seismic Upgrade Floor System, B1440, Rms: 176-181, 278, 285, 268, 282 &amp; 287</p>		4.121		

Exhibit R-2a, RDT&E Project Justification

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(U) <b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) AFFTC: Projects include designing costs for FY09 multiple projects; replacement of 9 air handlers for Bldg 1440; modifying space for tool crib in Bldg 1030; upgrading of generators for bldg 1030; and replace/upgrade raised computer flooring for Rms 224, 142, 143, 234, and 314 for Bldg 1020.		4.163	
(U) AFFTC: Projects include designing costs for FY10 multiple projects; upgrade security 1st and 3rd floor of the north tower for Bldg 1030; install EMCS in Bldgs 4785, 4795, 4970, 5780, 5781, 5790; install HVAC in the avionics lab at Bldg 1030; concept study for seismic upgrades for Bldgs 1020, 1030, 1440, and 1830; installation of carpeted floor tiles in Rms 210NT and 211NT in Bldg 1030; demolish/repair/upgrade site bldgs and utilities for several off base Range sites; build a lockable storage area in Bldg 1030; construct a shop area for technicians in Bldg 1030; construct a break/lunch room in Bldg 1030; install kitchen type sink in Bldg 1030; RAM replacement for Bldg 1030; replacement of heating system in Bldg 1830; replacement of 4 non-functional electrical meters in Bldg 1830; removal of halon piping in Bldg 1440; installation of backflow preventers in Bldg 1030; installation of water meter at Bldg 1440; replacement of air compressor plant at Bldg 1830; upgrade ventilation system with emergency shut off at Bldg 1440.			4.145
(U) Congressional Add: Internal Base Facility Energy Independence - Wind Turbine		1.000	
(U) Total Cost	55.473	59.750	46.234

(U) <b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>	<u>FY 2007</u> <u>Actual</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) Other APPN									
Related RDT&E: PE 0604256F, Threat Simulator Development; PE 0604759F, Major T&E Investment, PE 0604940D, Central T&E Investments, PE 0605807F, Test and Evaluation Support, and PE 0605978F, Facility Sustainment - T&E support.									

(U) **D. Acquisition Strategy**  
Not applicable