

**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 2006</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 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	73.015	61.080	54.683	55.008	50.328	50.067	49.421	Continuing	TBD
06MC Facility Restoration and Modernization - T&E	73.015	61.080	54.683	55.008	50.328	50.067	49.421	Continuing	TBD

**(U) 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 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. The activities were funded within PE 0605807F, Test and Evaluation Support prior to FY 2004.

FY 2005 includes \$4.500M to restore and modernize the National Full-scale Aerodynamic Complex (NFAC) located at NASA's Ames Research Center, California from its current mothball condition to an operational capability starting in FY 2005. FY 2005 includes \$17.800M Hurricane Ivan supplemental funds to repair storm damage. Restoration activities include repair and replacement work to restore damaged facilities due to failure attributable to inadequate sustainment, excessive age, or other causes.

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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	58.936	60.561	63.535
(U) Current PBR/President's Budget	73.015	61.080	54.683
(U) Total Adjustments	14.079	0.519	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.564	-0.881	
Congressional Increases		1.400	
Reprogrammings	16.283		
SBIR/STTR Transfer	-1.640		

**(U) Significant Program Changes:**

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

DATE  
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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>			<b>PROJECT NUMBER AND TITLE</b> <b>06MC Facility Restoration and Modernization - T&amp;E</b>		
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
06MC Facility Restoration and Modernization - T&E	73.015	61.080	54.683	55.008	50.328	50.067	49.421	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) 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 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. The activities were funded within PE 0605807F, Test and Evaluation Support prior to FY 2004.

FY 2005 includes \$4.500M to restore and modernize the National Full-scale Aerodynamic Complex (NFAC) located at NASA's Ames Research Center, California from its current mothball condition to an operational capability starting in FY 2005. FY 2005 includes \$17.800M Hurricane Ivan supplemental funds to repair storm damage. Restoration activities include repair and replacement work to restore damaged facilities due to failure attributable to inadequate sustainment, excessive age, or other causes.

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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Accomplishments/Planned Program:			
(U) Restoration and modernization funds were previously within PE 0605807F, T&E Support and restoration and modernization planning and design prior to FY 2004.			
(U) 46TG: Projects include Kranko drive upgrade at NRTF, main site power validation/repair at NRTF, repaving camera pad/connector roads at 846th TS, and general restoration and modernization planning and design.	1.074		
(U) 4TG: Restoration/Modernization of test unique infrastructure at the 46th TG. Projects include Rail refurbishment at Holloman High Speed Test Track (HHSTT) ,and Hangar Door Installation at 586 Flight Test Squadron (FTS), and general restoration and modernization planning and design.		1.151	
(U) 46TG: Restoration/Modernization of test unique infrastructure at the 46th TG. Projects include Rams Range Surface Reseal and Pit 3 440 volt cable replacement at the National Radar Test Facility (NRTF), Building 1265 Renovations,			0.967

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Exhibit R-2a, RDT&E Project Justification		DATE February 2006		
BUDGET ACTIVITY 06 RDT&E Management Support	PE NUMBER AND TITLE 0605976F Facility Restoration and Modernization - T&E	PROJECT NUMBER AND TITLE 06MC Facility Restoration and Modernization - T&E		
		FY 2005	FY 2006	FY 2007
(U) <b>B. Accomplishments/Planned Program (\$ in Millions)</b>				
Building 1261 Fire Alarm System and Roof Repair at 746 Test Squadron (TS), Building 1026 Auto Electric sliding gate and pave taxiway D at 586 FTS, and insulate HVAC in building 1604 at HHSTT, and general restoration and modernization planning and design..				
(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 Bldg 8320-replacing seawall, Bldg 8550-replacing HVAC, Bldg 9270-refilling seawall, Bldg 9292-replacing soil around building foundation, Bldg 12722-replacing septic tank, Bldg 12722-replacing AC, Bldg 9403-inspecting and replacing tower bolts, Climatic Laboratory (Bldg 440) - repairing roof leaks, Climatic Laboratory (Bldg 440) - replacing existing asphalt roadway, Climatic Laboratory (Bldg 440) - refurbishing two main chamber doors, Climatic Laboratory (Bldg 440) - replacing corrosion piping for air makeup #1, Bldg 955-repairing Range Road 234, Bldg 68-repairing/replacing windows, Range Site-renovating Control Bldg, Range Site-providing & installing NEC Infrastructure Communication Power and general restoration and modernization planning and design. FY05 includes \$17.800M Hurricane Ivan supplemental funds to repair storm damage.		22.530		
(U) 46TW: Replace roof of building 9604 at TA C-82. Replace well at TA B-70 control site. D-84 Restoration: build 50 x 50 concrete pad for Chicken Little. Expand compound at A-19. Repair/replace Coupeland tower at TA B-70. C-7 Hangar: erect Calibration Tower at D-3. Consolidation Remote Control Targets Facilities: Restoration of the Electro Optical Evaluation Facility Site C1 (Bldg 8777). Repaint Bldg. 9285 at A-13A. Repaint Bldg. 9287 at A-13A. Corrosion control of stair rails on IHAWK at A-13. Corrosion control of NIKE steel tower at A-13. 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 with fiber optic cable system. Replace fabric on E294, the Hellfire hanger. Replace safety rails on stairs and roof of Bldg 8550. Replace Condenser Coils on 80-Ton Chiller Unit for Radar (Bldg 9960). Repair dock or seawall at Test Site A-10. Enclose heavy equipment pole barn at RMT. Complete construction of paint booth cover at 46TW. Transportation Expansion project: Improve ventilation equipment racks for vehicle. Fabricate a building to accommodate the RHIB boat(s) at building 963 and general restoration and modernization planning and design.			4.225	
(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. Refurbish interior of building 9400 at TA B75 control. Paint/refurbish exterior of building 963 and general restoration and modernization planning and design.				3.488
(U) AEDC: Projects to revitalize the Engine Test Facilities, Propulsion Wind Tunnels, Von Karmon Test Facilities, and the Space and Missile chambers and facilities. Projects to restore and modernize the supporting plant facilities and		47.195	51.226	47.707
Project 06MC	R-1 Shopping List - Item No. 113-3 of 113-5			Exhibit R-2a (PE 0605976F)

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

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BUDGET ACTIVITY

06 RDT&amp;E Management Support

PE NUMBER AND TITLE

0605976F Facility Restoration and  
Modernization - T&E

PROJECT NUMBER AND TITLE

06MC Facility Restoration and  
Modernization - T&E

(U) <b>B. Accomplishments/Planned Program (\$ in Millions)</b>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
to perform general 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. Starting in FY 2005, program includes funds for the restoration and modernization of the National Full-scale Aerodynamic Complex (NFAC) located at NASA's Ames Research Center, California from the current mothball condition to an operational capability.			
(U) AFFTC: Projects include expanding fire sprinkler system Bldg 1020 Integrated Facility for Avionics Systems Test (IFAST), upgrading fire alarm panels and detection system in the data acquisition center, repairing radio frequency shielded personnel doors at Bldg 1030 Benefield Anechoic Facility (BAF), designing future facility modifications to IFAST and BAF, replacing control room floor (Bldg 145), replacing roof (Bldg 4795, modifying control rooms 248/249/250 phase 1 (Bldg 1440, replacing UPS (Bldg 5790), installing utility meters (Bldgs 1830 & 1440), paving drainage ditch between spurs 3 & 4 (airfield), abating and resurfacing hangar floor (Bldgs 1630 & 1635), installing tiedowns pad 29 (airfield), repainting taxi lines ramp 12, and general restoration and modernization planning and design.	2.216		
(U) AFFTC: Projects include modifying Mission Control Rooms 248/249/250 in Bldg 1440; installing showers in Bldg 1020; repairing raised computer flooring, Rm 224, Bldg 1020; replacing deluge tank fill line in Bldg 1020; repairing raised computer flooring, Rm 127, Bldg 1020; replacing power distribution units, F-15 Test Bay; installing UPS power, F-16 Test Bay; installing fire detection system in Bldg 4389; installing double door in Bldg 1440; installing addressable alarm system in Bldg 1440; repairing freight elevator in Bldg 1020; repairing/upgrading passenger elevator in Bldg 1020, repairing emergency generator tracking station in Bldg 4970; repairing HVAC in ABL facility Bldg 369); repairing heating in Bldg 1830; and general restoration/modernization planning and design.		4.478	
(U) AFFTC: Projects include repairing HVAC chillers in Bldg 1440; repairing EMCS system interface in Bldg 1440; installing Simulator/Dome Equipment in Bldg 1020; repairing generator in SC Lab (Bldg 1440); replacing of air compressor in Bldg 1830; upgrading conference room A/B in Bldg 1020; and general restoration/modernization planning and design. Design Funds for FY06 & contingency for 05: Expanding fire sprinkler system to remove halon (Bldg 1020), maintaining roof of BAF (Bldg 1030), repairing gas and electric meters, installing water meters Bldg 1440, replacing crane in Bldg 1830, repairing/upgrading raised computer flooring Rm 214 (Bldg 1020), replacing Halon 1301 Suppression System (Bldg 1030), modifying Rooms 124, 125, 126 in IFAST Security Office (Bldg 1020), and modifying new generator to alleviate wet-stacking problem (Bldg 4790).			2.521
(U) Total Cost	73.015	61.080	54.683

Exhibit R-2a, RDT&E Project Justification

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06 RDT&E Management Support

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</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