PE TITLE: Facility Restoration and Modernization - T&E

Exhibit R-2, RDT&E Budget Item Justification									February 2	2005
BUDGET ACTIVITY PE NUMBER AND TITLE 06 RDT&E Management Support 0605976F Facility Restoration and Modernizatio						ization - T&	E			
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	32.634	62.917	60.561	63.535	64.239	62.140	63.584	64.665	Continuing	TBD
06MC Facility Restoration and Modernization - T&E	32.634	62.917	60.561	63.535	64.239	62.140	63.584	64.665	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 previously funded within PEC 06050807F, Test and Evaluation Support.

These funds will also restore and modernize the National Full-scale Aerodynamic Complex (NFAC) located at NASA'a Ames Research Center, California from its current mothball condition to an operational capability. Restoration activities include repair and replacement work to restore damaged facilities due to failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new higher standard to accommodate new functions, or to replace building components that typically last more than 50 years.

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 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	33.652	58.936	59.359	57.352
(U) Current PBR/President's Budget	32.634	62.917	60.561	63.535
(U) Total Adjustments	-1.018	3.981		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.519		
Congressional Increases				
Reprogrammings	-1.018	4.500		
SBIR/STTR Transfer				

(U) Significant Program Changes:

Exhibit R-2 (PE 0605976F)

Exhibit R-2a, RDT&E Project Justification									February 2005		
BUDGET ACTIVITY 06 RDT&E Management Support				060597	BER AND TITLE '6F Facility I nization - T8	Restoration	and 06	OJECT NUMBE MC Facility I dernization	Restoration	and	
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	32.634	62.917	60.561	63.535	64.239	62.140	63.584	64.665	Continuing	TBD	
Quantity of RDT&E Articles	0	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.

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These funds will also restore and modernize the National Full-scale Aerodynamic Complex (NFAC) located at NASA'a Ames Research Center, California from its current mothball condition to an operational capability. Restoration activities include repair and replacement work to restore damaged facilities due to failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new higher standard to accommodate new functions, or to replace building components that typically last more than 50 years.

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)	FY 2004	FY 2005	FY 2006	FY 2007
(U)	Accomplishments/Planned Program:				
(U)	Restoration and modernization funds were previously within PE 0605807F, T&E Support and restoration	0.000			
	and modernization planning and design.				
(U)	46TG: Restoration/modernization of test unique infrastructure at the 46th Test Group (TG), located at	0.365			
	Holloman AFB, NM. Restoration projects include Test Group (TG) facility safety repairs, National				
	Radar Cross Section (RCS) Test Facility (NRTF) Mainsite roof repairs, video tracking equipment repairs,				
	secure phone replacement and Building 1265 (746th Test Squadron HQ Building) facility repairs and				
	general restoration and modernization planning and design.				
(U)	46TG: Projects include Kranko drive upgrade at NRTF, main site power validation/repair at NRTF,		1.141		
	repaving camera pad/connector roads at 846th TS, and general restoration and modernization planning				
	and design.				
Pro	ject 06MC R-1 Shopping List - Item No. 111-2 of 111-5			Exhibit R-2a (I	PE 0605976F)

		3311 125		DATE
	Exhibit R-2a, RDT&E Project Jus			February 2005
	GET ACTIVITY RDT&E Management Support	PE NUMBER AND TITLE 0605976F Facility Restoration and Modernization - T&E	06MC F	T NUMBER AND TITLE Facility Restoration and nization - T&E
(U)	46TG: Projects include repairing the holes on the RAMS Range due to weather erosi resealing the range surface as well as continuing to repave camera pad/connector roageneral restoration and modernization planning and design.			1.168
(U)	46TG: Projects include Mainsite Pit Hoist Tilt Mechanism restoration at two measures brakes, cables, hydraulics, and controls. Antenna System restoration as well as the siguides, mechanical & electrical components. Projects also continue repaying camera at 846 TS and general restoration and modernization planning and design.	tructure, wave		1.178
(U)	46TW: Restoration/modernization of test unique infrastructure at the 46th Test Wing Eglin AFB, FL. Restoration projects include repairing piping in Climatic Lab, instacooling in Test Hangar, repairing roof of Armament Research Test Facility (Bldg 46 Gun Test Facility (Bldg 410), repairing fire detection-alarm system in the Climatic L roof of a test facility, replacing chain link fence at Bldg 410, replacing compressed a facilities, repairing roof at Radar Facility, and repairing fence in Test Area A-24 and and modernization planning and design.	alling additional 3), repairing roof of aboratory, repairing ir lines at test		
(U)	46TW: The 46th Test Wing has an excess of 200 restoration/modernization projects facilities to include but not limited to the following categories: roofing, windows & oprotection, erosion, and HVAC. Some of these restoration/modernization projects in 8320-replacing seawall, Bldg 8550-replacing HVAC, Bldg 9270-refilling seawall, B soil around building foundation, Bldg 12722-replacing septic tank, Bldg 12722-replacing and replacing tower bolts, Climatic Laboratory (Bldg 440) - repairing Climatic Laboratory (Bldg 440) - replacing existing asphalt roadway, Climatic Laboratory (Bldg 440) - replacing control in makeup #1, Bldg 955-repairing Range Road 234, Bldg 68-repairing/replacing wing Site-renovating Control Bldg, Range Site-providing & installing NEC Infrastructure Power and general restoration and modernization planning and design.	loors, roads, fire clude Bldg ldg 9292-replacing ucing AC, Bldg lg roof leaks, ratory (Bldg 440) - prosion piping for ldows, Range	4.23	.1
(U)		19. Repair/replace ation Remote e C1 (Bldg 8777). tair rails on IHAWK V system between ear old CATV system ger. Replace safety		4.287
Pro	oject 06MC R-1 Shopping List - It	em No. 111-3 of 111-5		Exhibit R-2a (PE 0605976F)

	Exhibit R-2a, RDT&E Project Jus		DATE February 2005				
	GET ACTIVITY IDT&E Management Support	PE NUMBER AND TITLE 0605976F Facility Rest Modernization - T&E	PROJECT NUM 06MC Facilit Modernization	and			
	9960). Repair dock or seawall at Test Site A-10. Enclose heavy equipment pole bath	-					
	construction of paint booth cover at 46TW. Transportation Expansion project: Imprequipment racks for vehicle. Fabricate a building to accommodate the RHIB boat(s)						
(T.T.)	general restoration and modernization planning and design.					4.045	
(U)	46TW: Replace roof of building 8970 at TA B-70 control site. Rework parking area	_				4.247	
	at TA B-70 control site. Install fiber-optic cable to service building 9300 at TA B-7						
	Refurbish interior of building 9400 at TA B75 control. Paint/refurbish exterior of building 9400 at TA B75 control.	uilding 963 and					
(T.T.)	general restoration and modernization planning and design.		26.270				
(U)	AEDC: Restoration/modernization of test unique infrastructure at the Arnold Engine	•	26.378				
	Development Center (AEDC), located at Arnold AFB, TN. Restoration projects wh						
	reliability and availability of aged equipment include repairing Tunnel A actuators, i	= =					
	high pressure dryer filters, replacing C-Plant heater fuel pipe, replacing T3 high pressure dryer filters, replacing C-Plant heater fuel pipe, replacing T3 high pressure dryer filters.						
	replacing vacuum systems control panel (G) and general restoration and modernizat	ion planning and					
	design.	la Van Vannan Taat		<i>55</i> 100	£1.002	<i>55</i> 041	
(U)	AEDC: Projects such as: revitalizing Engine Test Facilities, Propulsion Wind Tunne			55.190	51.983	55.041	
	Facilities, Space and Missile chambers and facilities, supporting plant facilities and and modernization planning and design. The increased funding is required for large	=					
	-documented R&M projects at AEDC test facilities that directly support military and						
	development, Joint Strike Fighter, hypersonic programs and the National Missile De	_					
	test and evaluation. AEDC will manage the restoration and modernization of the Na	=					
	Aerodynamic Complex (NFAC) located at NASA's Ames Research Center, Californ						
	mothball condition to an operational capability.	na nom us current					
(U)	AFFTC: Restoration/modernization of test unique infrastructure at the Air Force Fli	aht Test Center	2.372				
(0)	(AFFTC), located at Edwards AFB, CA. Restoration projects include Benefield A		2.372				
	(BAF) Electrical Upgrades, repair air conditioning system (Bldg 1030), repairing rad						
	personnel doors (Bldg 1030), replacing network communications cable (Bldg 1440)	= -					
	room floor (Bldg 145) and general restoration and modernization planning and design						
(U)	AFFTC: Projects include expanding fire sprinkler system Bldg 1020 Integrated Fac			2.355			
(-)	Systems Test (IFAST), upgrading fire alarm panels and detection system in the data	=					
	repairing radio frequency shielded personnel doors at Bldg 1030 Benefield Anechoic	÷					
	designing future facility modifications to IFAST and BAF, replacing control room	•					
	replacing roof (Bldg 4795, modifying control rooms 248/249/250 phase 1 (Bldg 144	=					
	(Bldg 5790), installing utility meters (Bldgs 1830 & 1440), paving drainage ditch be						
	(airfield), abating and resurfacing hangar floor (Bldgs 1630 & 1635), installing tied	owns pad 29					
Pro	ject 06MC R-1 Shopping List - I	tem No. 111-4 of 111-5			Exhibit R-2a (F	PE 0605976F)	
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		Exhibi	t R-2a, RD	T&E Projec	ct Justifica	tion			DATE		2005
BUDGET ACTIVITY 06 RDT&E Management Support 0605976F Facility Remodernization - T&E						y Restoration a	and 06MC	PROJECT NUMBER AND TITLE 06MC Facility Restoration Modernization - T&E			
(U)	showers in Bldg 1020; repairing fill line in Bldg 1020; repairing distribution units, F-15 Test Bay in Bldg 4389; installing double drepairing freight elevator in Bldg emergency generator tracking state heating in Bldg 1830; and generator	raised computeraised and restoration/mag HVAC chill Dome Equipment or in Bldg 1830 nplanning and agency for 05: (Bldg 1030), religible 1830, repression Systems	ontrol Rooms for flooring, River flooring, Riv	248/249/250 ir m 224, Bldg 10 n 127, Bldg 10 n Test Bay; inst addressable al- assenger eleva HVAC in ABI blanning and de 440; repairing blanding gronference room e sprinkler syst ad electric mete- ing raised comp), modifying R	a Bldg 1440; in 1220; replacing 20; replacing partialling fire determined arm system in tor in Bldg 1022. Facility Bldg esign. EMCS system enerator in SC in A/B in Bldg term to remove ers, installing wouter flooring Rooms 124, 125	stalling deluge tank bower ction system Bldg 1440; 20, repairing 369); repairing interface in Lab (Bldg 1020; and halon (Bldg vater meters tm 214 (Bldg 1, 126 in				3.123	3.069
(U)	Total Cost						32.634	4 62.9	17	60.561	63.535
(U)	C. Other Program Funding Sur	•									
	Other APPN Related RDT&E: PE 0604256F, Evaluation Support, and PE 0605		-		FY 2007 Estimate 59F, Major T&	FY 2008 Estimate E Investment, I	FY 2009 Estimate PE 0604940D, Ce	<u>Estimate</u>	FY 2011 Estimate stments, PE	Cost to Complete C0605807F,	
(U)	D. Acquisition Strategy Not applicable										
Pro	ject 06MC			R-1 Shoppii	ng List - Item No	. 111-5 of 111-5			l	Exhibit R-2a ((PE 0605976F)