

UNCLASSIFIED

PE NUMBER: 0605807F
 PE TITLE: Test and Evaluation Support

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 06 RDT&E Management Support	PE NUMBER AND TITLE 0605807F Test and Evaluation Support
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	382.938	326.918	356.266	348.751	361.321	416.730	429.056	0.000	0.000
06TG 46 Test Group	20.342	23.370	23.812	24.242	22.918	25.459	26.693	0.000	0.000
06TS Test and Evaluation Support	362.596	303.548	332.454	324.509	338.403	391.271	402.363	0.000	0.000

(U) A. Mission Description and Budget Item Justification

Test facilities, capabilities and resources operated through this program include wind tunnels, rocket and jet engine test cells, limited space environmental simulation chambers, armament test ranges, climatic test facilities, avionics test facilities, aircraft testbeds, dry lakebed landing sites, instrumented test ranges, civilian payroll, and contractor services. It also provides resources for maintaining Air Force Materiel Command (AFMC) assigned test and test support coded aircraft. No acquisition contracts are funded from this program; test support contracts for services and supplies and equipment are predominantly awarded on the basis of full and open competition. This program element is in Budget Activity 6, RDT&E Management Support, because it funds institutional infrastructure resources (civilians, aircraft, facilities and ranges) to operate the Air Force test activities which are included in the Department of Defense (DoD) Major Range and Test Facility Base (MRTFB). Beginning in FY04 \$49.8M was realigned to program elements established to separately identify the facilities sustainment (PE 0605978F) and facilities restoration/modernization (PE 0605976F).

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	381.170	336.720	350.597
(U) Current PBR/President's Budget	382.938	326.918	356.266
(U) Total Adjustments	1.768	-9.802	
(U) Congressional Program Reductions	0.000	-7.000	
Congressional Rescissions	0.000	-2.802	
Congressional Increases			
Reprogrammings	1.768		
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			

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BUDGET ACTIVITY 06 RDT&E Management Support				PE NUMBER AND TITLE 0605807F Test and Evaluation Support			PROJECT NUMBER AND TITLE 06TG 46 Test Group		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
06TG 46 Test Group	20.342	23.370	23.812	24.242	22.918	25.459	26.693	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This project funds institutional test infrastructure support including: Command and supervisory staffs; supply stocks; upkeep, refurbishment, repair, and replacement of non-repairable or obsolete test equipment; test infrastructure for data collection, transmission, reduction, and analysis; civilian salaries, utilities, temporary duty travel, support contract costs for hardware and software engineering and maintenance. Project infrastructure support is provided for the unique capabilities of the 46th Test Group (TG) facilities: Central Inertial Guidance Test Facility (CIGTF/746th Test Squadron), the Holloman High Speed Test Track (HHSTT/846th Test Squadron) and the National Radar Cross Section (RCS) Test Facility (NRTF), the 586th Flight Test Squadron and Detachment 1 (DET 1). CIGTF provides independent assessments of inertial components, aircraft navigation systems, and missile guidance systems. HHSTT capabilities include full-scale testing in flight environments, realistic live-fire simulations, test item and target fragment recovery, and precision trajectory analysis and high speed photography. NRTF provides radar cross section (RCS) monostatic and bi-static amplitude and phase measurements, antenna pattern measurements, glint and near field measurements for low observable targets. The DET 1 provides liaison function for coordination of all AF test and training operations at White Sands Missile Range (WSMR). A growing number of the WSMR tests support Directed Energy Systems. The 586th Flight Test Squadron provides flight test support for weapon system, missile, guided bomb and spaceplane test and evaluation. The 46th TG support services contracts are awarded on the basis of full and open competition.

Budget Activity Justification:

This Program Element is in Budget Activity 6, RDT&E Management Support, because it funds institutional infrastructure resources (civilians, aircraft, facilities and ranges) to operate 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 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Accomplishments/Planned Program:	0.000	0.000	
(U) Provide infrastructure to support testing of DoD, FMS and commercial weapon systems.	0.000	0.000	
(U) Continue institutional test infrastructure support to enable testing for unclassified programs such as Miniaturized Airborne Global Positioning Upgrade, Joint Global Positioning System (GPS) Combat Effectiveness, GPS jamming ar electronic countermeasures, NAVWAR, Federal Aviation Authority (FAA), GPS integrated and embedded Inertial Navigation System (INS) programs, aircraft navigation systems including B-2 and F-22, munitions navigation systems such as Joint Air-to-Surface Standoff Missile (JASSM), F-22 ejection seat, Advanced Concept Ejection Seat (ACES) I Cooperative Modification Project (CMP), SM-3 Live Fire T&E (LFT&E), Theater High Altitude Area Defense (THAAD) LFT&E, Compact Energy Missile (CKEM) LFT&E, RCS testing, as well as multiple classified programs. Continue GPS-Joint Program Office (JPO) Responsible Test Organization (RTO) responsibilities.	2.549	2.360	4.670
(U) Maintenance and repair for test unique infrastructure. FY03 projects include Track Facilities Window Refurbishment	0.433		

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Track Antenna Relay System, Track (ARC) Building and Track Data Center (TDC) Control Room Renovation, Building 1085 Facility Repairs (XP, Plans & Resources Division Building), Building 1265 Safety Repairs (746th Test Squadron Hq Building), Building 1074 Roof Repairs (586th FLTS Hq Building), Data Processing Computer Upgrades and System -3R (Electronic Discharge Machine) Tooling Maintenance and Upgrades. FY04 and beyond maintenance and repair projects are funded in PEs 0605976F, Facility Restoration and Modernization - T&E, and PE 0605978F, Facility Sustainment - T&E Support.

(U) Contractor Services (in-house contract support activities)	10.341	11.942	10.543
(U) T&E Civilian Pay	7.019	9.068	8.599
(U) Total Cost	20.342	23.370	23.812

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</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) Related RDT&E: PE 0604759F, Major T&E Investment; PE 0604256F Threat Simulator Development; PE 0604940D, Central T&E Investments; PE 0605976F, Facility Restoration and Modernization - T&E and PE 0605978F Facility Sustainment -T&E Support									

(U) **D. Acquisition Strategy**

Not applicable

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 06 RDT&E Management Support				PE NUMBER AND TITLE 0605807F Test and Evaluation Support			PROJECT NUMBER AND TITLE 06TS Test and Evaluation Support		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
06TS Test and Evaluation Support	362.596	303.548	332.454	324.509	338.403	391.271	402.363	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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Exhibit R-2a, RDT&E Project Justification		DATE February 2004	
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE	
06 RDT&E Management Support	0605807F Test and Evaluation Support	06TS Test and Evaluation Support	
(U) Accomplishments/Planned Program:		0.000	0.000
(U) Provide infrastructure to support testing of DoD, FMS and commercial weapon systems.		0.000	0.000
(U) ARNOLD ENGINEERING AND DEVELOPMENT CENTER (AEDC)		0.000	0.000
(U) Continue institutional test infrastructure support to enable ground testing for classified programs, and unclassified programs (F-22, JDAM, F-15, F-16, JSF, B-1B, B-2, X-37, X-38, KC-10, Global Hawk, AMRAAM, AIM 9X, Minuteman, Peace Keeper, MDA, EELV, THAAD, Hyper-X CTS, Delta IV, F-18, TF39, F404, F414, F100, F110, F4 F118, F119, and Tunnel 9).		2.492	3.894 5.970
(U) Utilities and maintenance and repair for test unique infrastructure. FY03 maintenance and repair projects which revitalize the reliability and availability of aged equipment include Exhaust Compressor (ETF XS-1) Changeout, Repa C-Plant Control Valves, Replace Plenum Evacuation System (PES) Expansion Joints, Refurbish A/B/C Model Injectio System, Replace Hypersonics Data Systems and Maintenance and Repair planning and design. FY04 and beyond maintenance and repair projects are funded in PEs 0605976F, Facility Restoration and Modernization - T&E, and PE 0605978F, Facility Sustainment - T&E Support.		41.736	7.200 6.982
(U) Contractor Services (in-house contract support activities).		91.338	88.792 95.748
(U) T&E Civilian Pay.		13.145	14.965 13.155
(U) AIR FORCE FLIGHT TEST CENTER (AFFTC)		0.000	0.000
(U) Continue to provide institutional test infrastructure support enabling testing of the B-1B, B-2, B-52, F-16, F-15, F-15E F-22, F-117, AFTI/F-16, C-17, ATIC, ECCM, EW (B-1B ALQ-161, F-16 AN/ASQ-213, C-130 ALQ-172, etc.), and classified programs as well as the operation of the Test Pilot School in FY04 and FY05. Significant increase to FY05 includes projected A76 competitions.		1.482	15.321 41.555
(U) Utilities and Maintenance and Repair for test unique infrastructure. FY03 maintenance and repair projects include the repair drainage on Runway 04, Upgrade Benefield Anechoic Facility (BAF) Electrical (Bldg 1030) and repair Uninterrupted Power Supply Ridley Mission Control Center (Bldg 1441) and design of planned FY04 projects. FY04 and beyond maintenance and repair projects are funded in PEs 0605976F, Facility Restoration and Modernization - T& and PE 0605978F, Facility Sustainment - T&E Support.		5.385	1.027 3.080
(U) Contractor services (in-house contract support activities)		25.231	9.244 7.731
(U) T&E Civilian Pay		70.743	69.986 56.102
(U) Aircraft flying hour costs (to include the operation of the USAF Test Pilot School in FY03, FY04 and beyond documented above) for pilot proficiency for sustained readiness to include programmed depot maintenance (PDM), engine overhauls, petroleum, oils, and lubricants (POL), depot level reparables (DLR) and related support. Increase in FY05 is due to a higher requirement for time and calendar based maintenance. Flying proficiency funded at minimum levels to meet AFFTC proficiency flying goals.		37.396	23.432 28.203
(U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)		0.000	0.000
(U) Continue institutional test infrastructure support for non-nuclear air armaments (JASSM, SEEK EAGLE, WCMD, F-2		7.361	4.702 9.725

Project 06TS

R-1 Shopping List - Item No. 107-6 of 107-7

Exhibit R-2a (PE 0605807F)

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE							
06 RDT&E Management Support	0605807F Test and Evaluation Support	06TS Test and Evaluation Support							
AIM 9X, AMRAAM, ASRAAM, Hellfire, PATRIOT, DIRCM, AAV, UCAV, etc.); C2 (TMBCS, Link 16, BISS, and aircraft software upgrades (AFMSS)).									
(U) Utilities and maintenance and repair for test unique infrastructure. FY03 maintenance and repair projects include Add Heat to GWEF Test Facility, Climatic Laboratory Suppression System, Repair Seawall Test Site A-13, Repairs, Replace Fence, Demo Fence and Install A/C S Lean-To at the Climatic Laboratory. FY04 and beyond maintenance and repair projects are funded in PEs 0605976F, Facility Restoration and Modernization - T&E, and PE 0605978F, Facility Sustainment - T&E Support.	6.429	5.986	4.277						
(U) Contractor Services (in-house contract support activities).	19.241	14.606	11.576						
(U) T&E Civilian Pay	29.485	34.027	31.340						
(U) Aircraft flying hours costs include: pilot proficiency flying for sustained readiness; deferred and projected programme depot maintenance (PDM); engine overhauls; petroleum, oils, and lubricants (POL); depot level repairables (DLR); fuel and fuel price increases; and related support. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.	11.132	10.366	17.010						
(U) Total Cost	362.596	303.548	332.454						
(U) C. Other Program Funding Summary (\$ in Millions)									
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</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) Not Applicable									
(U) Related RDT&E: PE 0604759F, Major T&E Investment; PE 0604256F Threat Simulator Development; PE 0604940D, Central T&E Investments; PE 0605976F, Facility Restoration and Modernization - T&E and PE 0605978F Facility Sustainment -T&E Support									
(U) D. Acquisition Strategy									
Not applicable.									