PE NUMBER: 0605807F

PE TITLE: Test and Evaluation Support

	Exhib	oit R-2, RDT	&E Budge	t Item Just	ification			DATE	February	2006
					E NUMBER AND 605807F Tes	TITLE t and Evaluat	ion Support	-		
	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	358.584	685.657	742.522	716.414	718.918	744.452	736.117	Continuing	TBD
06TG	46 Test Group	23.175	25.611	32.914	27.954	28.632	29.868	30.144	Continuing	TBD
06TS	Test and Evaluation Support	335.409	660.046	709.608	688.460	690.286	714.584	705.973	Continuing	TBD

(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, hypersonic and subsonic testing, 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 and modifying as required 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).

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

		<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U)	Previous President's Budget	358.218	692.665	672.848
(U)	Current PBR/President's Budget	358.584	685.657	742.522
(U)	Total Adjustments	0.366	-7.008	
(U)	Congressional Program Reductions			
	Congressional Rescissions	-3.134	-9.908	
	Congressional Increases	3.500	2.900	
	Reprogrammings			

Reprogrammings

SBIR/STTR Transfer

(U) Significant Program Changes:

The FY03 National Defense Authorization Act (NDAA) language directed T&E centers to charge only direct costs beginning in FY06; this resulted in a zero-balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E Support, PE 0605807F.

R-1 Shopping List - Item No. 110-1 of 110-6

Exi	nibit R-2a, F	RDT&E Pro	ject Justif	ication			DATE	February	2006
BUDGET ACTIVITY 06 RDT&E Management Support			ļ	PE NUMBER AND 1605807F Test Support			PROJECT NUMI 06TG 46 Tes		
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
06TG 46 Test Group	23.175	25.611	32.914	27.954	28.632	29.868	30.144	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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 test and evaluation of inertial, Global Positioning System, and integrated systems used for aircraft navigation and missile guidance systems, including vulnerability to electronic interference. 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. Det 1 provides the liaison function for coordinating and scheduling 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 and flight test support for weapon system, missile, guided bomb, unmanned aerial vehicles/systems, 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)	FY 2005	FY 2006	FY 2007
(U)	Accomplishments/Planned Program:			
(U)	Provide infrastructure to support testing of DoD, FMS and commercial weapon systems.			
(U)	Continue institutional test infrastructure support to enable testing for unclassified programs such as Miniaturized	3.125	2.858	8.425
	Airborne Global Positioning Upgrade, Joint Global Positioning System (GPS) Combat Effectiveness, GPS jamming			
	and 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) II 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.			
(U)	Utilities	0.031	0.213	0.254
(U)	Contractor Services (in-house contract support activities)	10.682	10.507	11.895
(U)	T&E Civilian Pay	9.337	11.071	11.271
Proi	ect 06TG R-1 Shopping List - Item No. 110-2 of 110-6		Exhibit R-2a	(PE 0605807F)

Exhibit R-2a, RDT&E Project Justification									2006
BUDGET ACTIVITY 06 RDT&E Management Support					ND TITLE est and Evalua	PROJECT NUM 06TG 46 Tes	2000		
B. Accomplishments/PlannedFlying Hour CostsTotal Cost	Program (\$ in Milli	ions)					<u>Y 2005</u> 0.000 23.175	FY 2006 0.962 25.611	FY 2007 1.069 32.914
C. Other Program Funding Su	ummary (\$ in Million FY 2005 Actual	ns) FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cos
 Related RDT&E: PE 0604759F, Major T&E Investigation - T&E and PE 06 D. Acquisition Strategy 			-	nt; PE 0604940D), Central T&E I	nvestments; Pl	E 0605976F, Fa	cility Restoration	on and
Not applicable									

Project 06TG R-1 Shopping List - Item No. 110-3 of 110-6

Exhibit R-2a (PE 0605807F)

Exhibit R-2a, RDT&E Project Justification									February	2006
BUDGET ACTIVITY 06 RDT&E Management Support				į.	PE NUMBER AND 0605807F Test Support			PROJECT NUM 06TS Test ar	BER AND TITLE Id Evaluation	Support
	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
06TS	Test and Evaluation Support	335.409	660.046	709.608	688.460	690.286	714.584	705.973	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This project provides resources to operate the Air Force test activities which are included in the Department of Defense (DoD) Major Range and Test Facility Base (MRTFB). Test facilities/capabilities operated through this program include wind tunnels, rocket and jet engine test cells, hypersonic and subsonic testing, modeling and simulation, technology, limited space environmental simulation chambers, armament test ranges, climatic test facilities, avionics test facilities, aircraft testbeds, dry lakebed landing sites, instrumented test ranges, and test aircraft maintenance, as well as USAF Test Pilot School. Test and Evaluation (T&E) Support funds institutional test infrastructure activities including: Command and supervisory staffs; supply stocks; maintenance, repair, and replacement of worn or obsolete test equipment and facilities; test infrastructure for data collection, transmission, reduction, and analysis; civilian salaries; temporary duty travel; range operations and material support contract costs for hardware and software engineering and maintenance; and minor improvement and modernization projects. It also funds institutional test aircraft depot level maintenance such as: Programmed Depot Maintenance (PDM), the calendar-based cyclic scheduling of aircraft into depots for update/inspection; modifications and any other depot level repairs required by the aircraft System Program Directors (SPD); engine overhauls; depot-provided area assistance; and assorted ground support equipment overhauls. Three major Air Force test centers are supported by this project: (1) Arnold Engineering and Development Center (AEDC), located at Arnold Air Force Base (AFB), TN, whose institutional test infrastructure supports operations of the largest complex of ground test facilities in the world (includes transonic, supersonic, and hypersonic wind tunnels; rocket motor and turbine engine test cells; space environmental test chambers, hyperballistic ranges; and other specialized facilities). Included are operations at the National Full-Scale Aerodynamic Complex (NFAC) located at NASA's Ames Research Center, California as well as operations at Tunnel 9 located at White Oak, Maryland. (2) Air Force Flight Test Center (AFFTC), located at Edwards AFB, CA, whose institutional test infrastructure supports weapons system development and operational test and evaluation for aircraft, aircraft subsystems and aircraft weapon systems, aerospace research vehicles, unmanned miniature vehicles, cruise missiles, parachute delivery/recovery systems, cargo handling systems, communications, information operations, and Electronic Warfare (EW) systems for DoD and allied forces. The AFFTC mission includes the United States Air Force (USAF) Test Pilot School. (3) Air Armament Center (AAC) 46th Test Wing (TW) located at Eglin AFB, FL, is comprised of 724 square miles of land area, and approximately 123,000 square miles of water space. AAC 46TW provides the institutional test infrastructure required for the conduct of developmental and operational test and evaluation of non-nuclear air armaments (including aircraft guns, ammunition, bombs, and missiles); Command, Control, Communications, Computers and Intelligence (C4I) systems; target acquisition and weapon delivery systems; a multi-service climatic simulation capability, and determines target/test item spectral signatures for DOD and allied forces. AAC 46TW provides a scientific test process that supports the development and enhancement of munitions systems that support tri-service smart weapons development. AAC 46TW technology is compatible with weapon systems to be tested such as Advanced Medium Range Air-to-Air Missile (AMRAAM), Joint Direct Attack Munition (JDAM), Small Diameter Bomb (SDB), CSAR-X, Advanced Short Range Air-to-Air Missile (ASRAAM), Joint Tactical Information Distribution System (JTIDS), Joint Surveillance Target Attack Radar System (JSTARS), Combat Talon, etc. T&E support services contracts are awarded on the basis of full and open competition.

Budget Activity Justification:

Project 06TS R-1 Shopping List - Item No. 110-4 of 110-6

Exhibit R-2a (PE 0605807F)

PROJECT ACTIVITY PER NUMBER AND TITLE GOOSBOTF Test and Evaluation GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation Support GOTS Test and Evaluation G		Exhibit R-2a, RDT&E Project Justin	D	DATE Fobruary 2006		
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: Sin Millions) FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 FY 2007 FY 2007 FY 2007 FY 2008 FY 2008 FY 2008 FY 2009		DT&E Management Support				
(U) Provide infrastructure to support testing of DoD, other Government Agencies, FMS and commercial weapon systems. (U) ARNOLD ENGINEERING AND DEVELOPMENT CENTER (AEDC) (U) Continue institutional test infrastructure support to enable ground testing for classified programs and unclassified 7.920 22.079 23.555 programs (JSF-F135/136, F22-F119, B2/U2-F118, F15F16-F100, A10-TF34-100B, FMS-JDA P-X, JSF, MMA, F/A-18 EF, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E-2 Hawkeye, SDB, J-UCAS, FALCON-CAV, F-16/F-15/F-22 Derivatives, Minutenam III PRP, Peacekeeper RSILP, MM-RVAP, Trident II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22, Seek Eagle, Threat Airborne Simulator, CHSSI, Inlet/Eng Integration, T&E S&T Support, MSIC, ABL, Airborne Sensors, Tactical Tomahawk, Navy T45/F405, F414, Commercial-Genx/Trent 1000, Trident II/LMSSC Cables, AFSPC and AFRL Programs, MDA-NSM/KEIGBI/THAAD/HFDP/PURE/Data Center/DES/and Exo-Experiments. (U) Utilities. (U) Contractor Services (in-house contract support activities). (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (U) Continue to provide institutional test infrastructure support enabling testing of the B-1B, B-2, B-52 F-16, F-15, F-15, F-22, F-117, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (milt oci) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes S50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Contractor services (in-house contract support activities) (U) Air Roff flying costs include test, test support and pilot proficiency fo						nd
(U) Provide infrastructure to support testing of DoD, other Government Agencies, FMS and commercial weapon systems. (J) ARNOLD ENGINEERING AND DEVELOPMENT CENTER (AEDC) (U) Continue institutional test infrastructure support to enable ground testing for classified programs and unclassified programs (JSF-F135/136, F22-F119, B2/U2-F118, F15/F16-F100, A10-TF34-100B, FMS-JDA P-X, JSF, MMA, F/A-18 E/F, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E-2 Hawkeye, SDB, J-UCAS, FALCON-CAV, F-16/F-15/F-22 Derivatives, Minuterman III PRP, Peacekeeper RSLP, MM-RVAP, Trident II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22, Seek Eagle, Threat Airborne Simulator, CHSSI, Inlet/Eng Integration, T&E S&T Support, MSIC, ABL, Airborne Sensors, Tactical Tomahawk, Navy T45/F405, F414, Commercial-Genx/Trent 1000, Trident II/LMSSC Cables, AFSPC and AFRL Programs, MDA-NSM/KEL/GBI/THAAD/HFDP/PURE/Data Center/DES/and Exo-Experiments. (U) Utilities. (U) Utilities. (U) Contractor Services (in-house contract support activities). (U) T&E Civilian Pay. (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (U) Continue to provide institutional test infrastructure support enabling testing of the B-1B, B-2, B-52 F-16, F-15, F-15F, F-22, F-117, F-35, C-17, Cv-22, ATTC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mill to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase include \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. (U) Contractor services (in-house contract support activities) (U) Aircraft flying costs include test, test support activities) (U) Aircraft	(U)	B. Accomplishments/Planned Program (\$ in Millions)		FY 2005	FY 2006	FY 2007
systems. (U) ARNOLD ENGINEERING AND DEVELOPMENT CENTER (AEDC) (U) Continue institutional test infrastructure support to enable ground testing for classified programs and unclassified 7,920 22,079 23,555 programs (JSF-F135/136, F22-F119, B2/U2-F118, F15/F16-F100, A10-TF34-100B, FMS-JDA P-X, JSF, MMA, F/A-18 E/F, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E2 Hawkeye, SDB, J-UCAS, FALCON-CAV, F-16/F-15/F-22 perivatives, Minuteman III PRP, Peacekeeper RSLP, Mm RVAP, Trident II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22, Seek Eagle, Threat Airborne Simulator, CHSSI, InlevEng Integration, T&E S&T Support, MSIC, ABL, Airborne Sensors, Tactical Tomahawk, Navy T45/F405, F414, Commercial-Genx/Trent 1000, Trident IIL/MSSC Cables, AFSPC and AFRL Programs, MDA-NSM/KEI/GBI/THAAD/HFDP/PURE/Data Center/DES/and Exo-Experiments. (U) Utilities. (U) Contractor Services (in-house contract support activities). (U) Contractor Services (in-house contract support activities). (U) Contractor Services (in-house contract support enabling testing of the B-1B, B-2, B-52 F-16, F-15, 43.334 57.674 43.53′ F-15E, F-22, F-117, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Plot School. Significant increase from FYO4 to FYO5/06/07 reflexs the planned execution of a "direct conversion" of previously identified A'5 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FYO6 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FYO6/07 increases are a direct result of the FYO3 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. (U) Vilitities. (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include 23,238 70,082 107.622 programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL),	(U)	Accomplishments/Planned Program:				
(U) Continue institutional test infrastructure support to enable ground testing for classified programs and unclassified programs (SF-F135136, F22-F119, B2/U2-F118, F15/F16-F100, A10-TF34-100B, FMS-JDA P-X, JSF, MMA, FFA-18 E/F, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E-2 Hawkeye, SDB, J-UCAS, FALCON-CAV, F-16/F-15/F-22 Derivatives, Minuteman III PRP, Peacekeeper RSLP, MM-RVAP, Trident II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22, Seek Eagle, Threat Airborne Simulator, CHSSI, Inlet/Eng Integration, T&E S&T Support, MSIC, ABL, Airborne Sensor, a Tactical Tomahawk, Navy T45/F405, F414, Commercial-Genx/Trent 1000, Trident II/LMSSC Cables, AFSPC and AFRL Programs, MDA-NSM/KEI/GBI/THAAD/HFDP/PURE/Data Center/DES/and Exo-Experiments. U) Utilities. (U) Contractor Services (in-house contract support activities). AIR FORCE FLIGHT TEST CENTER (AFFTC) (U) Continue to provide institutional test infrastructure support enabling testing of the B-1B, B-2, B-52 F-16, F-15, F-15, F-22, F-117, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes S50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. (U) Utilities. (U) Contractor services (in-house contract support and pilot proficiency for sustained readiness. Costs include programs and contract support and pilot proficiency for sustained readiness. Costs include reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)		nd commercial weapon			
programs (JSF-F135/136, F22-F119, B2/U2-F118, F15/F16-F100, A10-TF34-100B, FMS-JDA P-X, JSF, MMA, F/A-18 E/F, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E-2 Hawkeye, SDB, J-UCAS, FALCON-CAV, F-16/F-15/F-22 Derivatives, Minuteman III PRP, Peacekeper RSLP, MM-RVAP, Trident II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22, Seek Eagle, Threat Airborne Simulator, CHSSI, Inlet/Eng Integration, T&E S&T Support, MSIC, ABL, Airborne Sensors, Tactical Tomahawk, Navy T45/F405, F414, Commercial-Genx/Trent 1000, Trident II/LMSSC Cables, AFSPC and AFRL Programs, MDA-NSM/KEI/GBI/THAAD/HFDP/PURE/Data Center/DES/and Exo-Experiments. (U) Utilities. (U) Utilities. (U) Utilities. (U) Contractor Services (in-house contract support activities). (U) T&E Civilian Pay. (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (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, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. 1.820 5.594 6.188 (U) Contractor services (in-house contract support activities) 3.972 74.470 34.164 (U) T&E Civilian Pay 80.104 147.455 153.315 (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include reparables (DLR), fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)	ARNOLD ENGINEERING AND DEVELOPMENT CENTER (AEDC)				
(U) Utilities. (U) Contractor Services (in-house contract support activities). (U) T&E Civilian Pay. (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (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, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. (U) Contractor services (in-house contract support activities) (U) T&E Civilian Pay (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)	programs (JSF-F135/136, F22-F119, B2/U2-F118, F15/F16-F100, A10-TF34-100B, FF/A-18 E/F, JASSM-ER, NASA CLV/CEV, Seek Eagle, Global Hawk, E-2 Hawkeyer FALCON-CAV, F-16/F-15/F-22 Derivatives, Minuteman III PRP, Peacekeeper RSL II-NSWC RSAP, Classified RS, ARROW, PAC-3, Space Shuttle, HyTECH SED, F22 Simulator, CHSSI, Inlet/Eng Integration, T&E S&T Support, MSIC, ABL, Airborne SNavy T45/F405, F414, Commercial-Genx/Trent 1000, Trident II/LMSSC Cables, AF	FMS-JDA P-X, JSF, MMA, e, SDB, J-UCAS, P, MM-RVAP, Trident 2, Seek Eagle, Threat Airborne Sensors, Tactical Tomahawk, SPC and AFRL Programs,	7.920	22.079	23.555
(U) Contractor Services (in-house contract support activities). (U) T&E Civilian Pay. (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (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, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. 1.820 5.594 6.183 (U) Contractor services (in-house contract support activities) 3.972 74.470 34.164 (U) T&E Civilian Pay 80.104 147.455 153.315 (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include 23.238 70.082 107.622 reparables (DLR); fuel and fuel price increase; and related support.	Œ	•	•	5.812	8 763	9 100
(U) T&E Civilian Pay. (U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (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, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. 1.820 5.594 6.183 (U) Contractor services (in-house contract support activities) 3.972 74.470 34.164 (U) T&E Civilian Pay (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)						
(U) AIR FORCE FLIGHT TEST CENTER (AFFTC) (U) Continue to provide institutional test infrastructure support enabling testing of the B-1B, B-2, B-52 F-16, F-15, 43.334 57.674 43.537. F-15E, F-22, F-117, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. (U) Contractor services (in-house contract support activities) (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)						14.272
(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, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk, etc.) communications, information systems, and classified programs. Operate the USAF Test Pilot School. Significant increase from FY04 to FY05/06/07 reflects the planned execution of a "direct conversion" of previously identified A-76 study personnel (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 increase includes \$50M for specific KC-135 aircraft modifications to provide airborne communications and a secure communications test bed. FY06/07 increases are a direct result of the FY03 NDAA zero base transfers (ZBT) for indirect test costs. (U) Utilities. 1.820 5.594 6.185 (U) Contractor services (in-house contract support activities) 3.972 74.470 34.164 (U) T&E Civilian Pay 80.104 147.455 153.315 (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	` ′	·				
(U) Utilities. (U) Contractor services (in-house contract support activities) 3.972 74.470 34.164 (U) T&E Civilian Pay 80.104 147.455 153.319 (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	` ′	Continue to provide institutional test infrastructure support enabling testing of the B-1 F-15E, F-22, F-117, F-35, C-17, CV-22, ATIC, ECCM, ABL, Predator, Global Hawk information systems, and classified programs. Operate the USAF Test Pilot School. to FY05/06/07 reflects the planned execution of a "direct conversion" of previously id (mil to civ) into a High Performance Organization (HPO) manned by civilians. FY06 specific KC-135 aircraft modifications to provide airborne communications and a second	e, etc.) communications, Significant increase from FY04 Hentified A-76 study personnel increase includes \$50M for ure communications test bed.	43.334	57.674	43.537
(U) T&E Civilian Pay (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)	· · ·		1.820	5.594	6.185
(U) T&E Civilian Pay (U) Aircraft flying costs include test, test support and pilot proficiency for sustained readiness. Costs include programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)	Contractor services (in-house contract support activities)		3.972	74.470	34.164
programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubricants (POL), depot level reparables (DLR); fuel and fuel price increase; and related support. (U) AIR ARMAMENT CENTER (AAC) 46th Test Wing (TW)	(U)	**		80.104	147.455	153.319
	` '	programmed depot maintenance (PDM), engine overhauls, petroleum, oils and lubrica reparables (DLR); fuel and fuel price increase; and related support.		23.238	70.082	107.622
■ Project U61S R-1 Sponning List - Item No. 110-5 of 110-6 Evnint R-23 (PE U60580)		ATR ARMAMENT CENTER (AAC) 46th Test Wing (TW) ect 06TS R-1 Shopping List - Iter	n No. 110-5 of 110-6		Fyhihit R-2a	(PE 0605807F)

De RDT&E Management Support U. B. Accomplishments/Planned Program (\$ in Millions) U. Continue institutional test infrastructure support for non-nuclear air armaments (JASSM, SEEK EAGLE, WCMD, F-22, AIM9X, AMRAAM, ASRAAM, Hellfire, PATRIOT, DIRCM, AAV, UCAF, etc.); C2 (TMBCS, Link 16, BISS, and aircraft software upgrades (AFMSS), etc). U. Utilities. U. Utilities. 3.740 3.758 4.8 U. Contractor Services (in-house contract support activities). U. Aircraft flying hours costs include: pilot proficiency flying for sustained readiness; deferred and projected programmed depot maintenance (PDM); engine overhauls; petroleum, oils, and lubricants (POL); depot level reparables (DLR); fuel and fuel price increases; and related support. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals.Funds proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency flying to minimum fevels allowing AAC 46TW to meet proficiency			Exhibit R-2	2a, RDT&E	Project Jus	tification			DA	^{TE} February	2006
Continue institutional test infrastructure support for non-nuclear air armaments (JASSM, SEEK EAGLE, WCMD, 7.224 8.288 42.22 F-22, AIM9X, AMRAAM, ASRAAM, Hellfire, PATRIOT, DIRCM, AAV, UCAF, etc.); C2 (TMBCS, Link 16, BISS, and aircraft software upgrades (AFMSS), etc). UI Utilities. 3.740 3.758 4.88 UI Contractor Services (in-house contract support activities). 22.963 67.846 70.99 UI T&E Civilian Pay 32.600 48.855 49.00 Aircraft flying hours costs include: pilot proficiency flying for sustained readiness; deferred and projected programmed depot maintenance (PDM); engine overhauls; petroleum, oils, and lubricants (POL); depot level reparables (DLR); fuel and fuel price increases; and related support. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals. Funds proficiency flying requirements. UI Total Cost 335.409 660.046 709.66 C. Other Program Funding Summary (\$ in Millions) FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Fe 2005 FY 2011 Cost to Complete PE 0604759F, Major T&E Investment; PE 0604940D, Central T&E Investments; PE 0605976F, Facility Restoration and Modernization - T&E and PE 0605978F Facility Sustainment - T&E Support UI D. Acquisition Strategy	0605807F Test and Evaluati							ition			
Utilities. 3.740 3.758 4.8 UCOntractor Services (in-house contract support activities). 22.963 67.846 70.9 UT&E Civilian Pay 32.600 48.855 49.0 UAircraft flying hours costs include: pilot proficiency flying for sustained readiness; deferred and projected 7.398 30.951 43.4 programmed depot maintenance (PDM); engine overhauls; petroleum, oils, and lubricants (POL); depot level reparables (DLR); fuel and fuel price increases; and related support. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals. Funds proficiency flying to minimum levels allowing AAC 46TW to meet proficiency flying goals. Funds proficiency flying requirements. UTO Total Cost 335.409 660.046 709.60 UCC. Other Program Funding Summary (\$ in Millions) FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete 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 UD D. Acquisition Strategy		Continue institutional test infrastruc F-22, AIM9X, AMRAAM, ASRAA	ture support for M, Hellfire, PA	non-nuclear air TRIOT, DIRC				<u>F</u>			FY 2007 42.249
Total Cost C. Other Program Funding Summary (\$ in Millions) FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete 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 D. Acquisition Strategy	J) J)	Utilities. Contractor Services (in-house contractor T&E Civilian Pay Aircraft flying hours costs include: programmed depot maintenance (PE reparables (DLR); fuel and fuel pricallowing AAC 46TW to meet profice	pilot proficienc DM); engine ove e increases; and ciency flying go	vities). y flying for susterhauls; petrolet related supportals.Funds profic	um, oils, and lub t. Funds proficion ciency flying to	oricants (POL); concy flying to minimum levels	lepot level iinimum levels allowing AAC		22.963 32.600	67.846 48.855	4.827 70.931 49.068 43.473
FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete J. 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 D. Acquisition Strategy	J)		als and funds th	e aircraft infras	structure to also	support test flyii	ng requirements.	3	335.409	660.046	709.608
		Related RDT&E: PE 0604759F, Major T&E Investmen	FY 2005 Actual nt; PE 0604256I	FY 2006 Estimate Threat Simula	Estimate ator Developmen	Estimate	Estimate	<u>Estimate</u>	Estimate	<u>Complete</u>	Total Cost
	J)										

Project 06TS

Exhibit R-2a (PE 0605807F)