

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604759F: <i>Major T&E Investment</i>
-----------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	63.892	61.587	62.206	-	62.206	60.038	49.606	46.223	53.760	Continuing	Continuing
664597: <i>Air Force Test Investments</i>	63.892	61.587	62.206	-	62.206	60.038	49.606	46.223	53.760	Continuing	Continuing

A. Mission Description and Budget Item Justification

This PE provides planning, improvements, and modernization for test capabilities at three Air Force test organizations: 46 Test Wing (to include 46 Test Group at Holloman AFB NM, and operating locations at Wright-Patterson AFB OH), Arnold Engineering Development Center (AEDC), and Air Force Flight Test Center (AFFTC). The purpose is to help test organizations improve and develop their test infrastructure and capabilities to keep pace with improvements in weapon system technologies. Test investment activities also fund the Test and Evaluation (T&E) Board of Directors.

The improvement and modernization (I&M) requirements are defined through the AF Test Investment Planning & Programming (TIPP) Process. Also, all projects have been reviewed through the Tri-Service Reliance process (to communicate AF efforts to the other Services and avoid unwarranted duplication of effort) and are documented in Reliance Area Capability Summaries (RACS). Further, each project has its own planning, development, equipment acquisition, equipment installation, and checkout phases which often require significant differences in funding from one year to the next. As such, the changes in category funding from year to year do not necessarily indicate program growth, but rather a planned phasing of improvement and modernization efforts. The test capabilities at these locations enable testing through all phases of weapon system acquisition, from system concept exploration through component and full scale integrated weapon system testing to operational testing. These test organizations are a national asset operated and maintained by the Air Force for DoD test and evaluation, but are available to others requiring their unique capabilities.

The 46TW, at Eglin AFB, FL, conducts and supports developmental test and evaluation (DT&E) of non-nuclear air armaments; Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR) systems; target acquisition and weapon delivery systems; navigation systems; provides a climatic simulation capability; and determines target/test item spectral signatures. The 46TG at Holloman AFB, NM 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; provides the liaison function for coordinating and scheduling all US Air Force test operations at White Sands Missile Range; provides subsonic through hypersonic ground testing of aircraft and missiles in a flight-representative environment under highly instrumented conditions; and executes flight test and test support for advanced avionics and weapons development of joint, international and commercial test programs.

AEDC, at Arnold AFB, TN, provides pre-flight and reliability ground environmental test support for DoD aeropropulsion, flight systems, and space and missile programs. The center has 53 test facilities providing: aerodynamic testing of scale model aircraft, missiles, and space systems; testing of large and full-scale satellites, sensors, and space vehicles in a simulated space environment; altitude environmental testing for aircraft, missile, and spacecraft propulsion systems; and testing of large-scale models such as space boosters together with their propulsion systems.

AFFTC, at Edwards AFB, CA, conducts and supports DT&E and Operational Test and Evaluation (OT&E) of aircraft and aircraft systems, aerospace research vehicles, unmanned aerial vehicles, cruise missiles, parachute delivery/recovery/systems, and cargo handling systems.

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0604759F: <i>Major T&E Investment</i>
<p>I&M efforts within this PE are identified in four mission area categories: Airframe/Propulsion/Avionics (APA); Armament/Munitions (A/M); Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR); and Space. These categories describe general types of effort that will be conducted in this PE. APA provides planning, improvements, and modernization needed for test capabilities to conduct and support DT&E and OT&E of aircraft and aircraft systems, aerospace research vehicles, unmanned aerial vehicles, cruise missiles, parachute delivery/recovery systems, cargo handling systems, and turbine engines. APA focuses on evaluation of the vehicle airframe, propulsion system, and avionics systems, as well as overall systems integration testing. It encompasses both ground test facilities and open-air range infrastructure, including instrumentation and data processing. A/M provides planning, improvements and modernization to conduct DT&E of air-to-ground and air-to-air armaments and munitions, which include gun, chaff and flare systems as well as aerial decoy and target systems. The A/M category encompasses the full range of DT&E from digital modeling and simulation, to precision measurement testing, to hardware-in-the-loop and installed systems testing, to open-air range testing. Elements of A/M DT&E include environmental, warhead effectiveness, arena blast/fragmentation, guidance navigation and control, aerodynamics, propulsion, electromagnetic interference and compatibility, mass properties, seeker and signature measurement, survivability, lethality, integration, reliability, net-centric and terminal effects testing. A/M also involves the design and development of systems needed to support A/M DT&E including the design and development sleds, targets, range support systems and various instrumentation and measurement systems. C4ISR provides planning, improvements and modernization to conduct DT&E of systems that support C2 functions which range from air campaign planning at the theater level to wing level C2 operations, to planning individual missions, to putting weapons on target using concepts such as machine to machine targeting. C4ISR includes ground and flight performance testing of airborne C2 networks and tactical data links, air operation centers, mission planning systems, multi-level security systems, radio and communication systems, ISR systems, information assurance systems, and radar systems such as those used by JSTARS and air traffic control systems. C4ISR conducts DT&E on a full range of systems covering the sensor (detection) to the shooter (weapon), including functional and environmental testing of these systems. Space provides planning, improvements, and modernization needed for Space test capabilities to perform developmental and operational testing for space and launch acquisition and sustainment programs. Test capabilities include launch vehicle, satellite, missile, sensor, thermal protection system, signature, hardness, and interface testing. The capabilities are resident at Vandenberg, Kirtland, Arnold, Patrick, Schriever, Peterson, Holloman Air Force Bases and others. Infrastructure includes launch sites, mobile control units, thermal vacuum chambers, sled track, arc heated wind tunnels, ballistic test ranges, signature collection, and the requisite personnel.</p> <p>Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.</p>		

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force	DATE: February 2011
----------------------------------------------------------------------------	----------------------------

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604759F: <i>Major T&E Investment</i>
-----------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	67.797	61.587	62.413	-	62.413
Current President's Budget	63.892	61.587	62.206	-	62.206
Total Adjustments	-3.905	-	-0.207	-	-0.207
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-2.350	-			
• SBIR/STTR Transfer	-1.272	-			
• Other Adjustments	-0.283	-	-0.207	-	-0.207

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 664597: *Air Force Test Investments*

Congressional Add: *CONGRESSIONAL ADD*

	FY 2010	FY 2011
	7.000	-
Congressional Add Subtotals for Project: 664597	7.000	-
Congressional Add Totals for all Projects	7.000	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604759F: <i>Major T&E Investment</i>	PROJECT 664597: <i>Air Force Test Investments</i>
-----------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
664597: <i>Air Force Test Investments</i>	63.892	61.587	62.206	-	62.206	60.038	49.606	46.223	53.760	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This PE provides planning, improvements, and modernization for test capabilities at three Air Force test organizations: 46 Test Wing (to include 46 Test Group at Holloman AFB NM, and operating locations at Wright-Patterson AFB OH), Arnold Engineering Development Center (AEDC), and Air Force Flight Test Center (AFFTC). The purpose is to help test organizations improve and develop their test infrastructure and capabilities to keep pace with improvements in weapon system technologies. Test investment activities also fund the Test and Evaluation (T&E) Board of Directors.

The improvement and modernization (I&M) requirements are defined through the AF Test Investment Planning & Programming (TIPP) Process. Also, all projects have been reviewed through the Tri-Service Reliance process (to communicate AF efforts to the other Services and avoid unwarranted duplication of effort) and are documented in Reliance Area Capability Summaries (RACS). Further, each project has its own planning, development, equipment acquisition, equipment installation, and checkout phases which often require significant differences in funding from one year to the next. As such, the changes in category funding from year to year do not necessarily indicate program growth, but rather a planned phasing of improvement and modernization efforts. The test capabilities at these locations enable testing through all phases of weapon system acquisition, from system concept exploration through component and full scale integrated weapon system testing to operational testing. These test organizations are a national asset operated and maintained by the Air Force for DoD test and evaluation, but are available to others requiring their unique capabilities.

The 46TW, at Eglin AFB, FL, conducts and supports developmental test and evaluation (DT&E) of non-nuclear air armaments; Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR) systems; target acquisition and weapon delivery systems; navigation systems; provides a climatic simulation capability; and determines target/test item spectral signatures. The 46TG at Holloman AFB, NM 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; provides the liaison function for coordinating and scheduling all US Air Force test operations at White Sands Missile Range; provides subsonic through hypersonic ground testing of aircraft and missiles in a flight-representative environment under highly instrumented conditions; and executes flight test and test support for advanced avionics and weapons development of joint, international and commercial test programs.

AEDC, at Arnold AFB, TN, provides pre-flight and reliability ground environmental test support for DoD aeropropulsion, flight systems, and space and missile programs. The center has 53 test facilities providing: aerodynamic testing of scale model aircraft, missiles, and space systems; testing of large and full-scale satellites, sensors, and space vehicles in a simulated space environment; altitude environmental testing for aircraft, missile, and spacecraft propulsion systems; and testing of large-scale models such as space boosters together with their propulsion systems.

AFFTC, at Edwards AFB, CA, conducts and supports DT&E and Operational Test and Evaluation (OT&E) of aircraft and aircraft systems, aerospace research vehicles, unmanned aerial vehicles, cruise missiles, parachute delivery/recovery/systems, and cargo handling systems.

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604759F: <i>Major T&E Investment</i>	PROJECT 664597: <i>Air Force Test Investments</i>

I&M efforts within this PE are identified in four mission area categories: Airframe/Propulsion/Avionics (APA); Armament/Munitions (A/M); Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR); and Space. These categories describe general types of effort that will be conducted in this PE. APA provides planning, improvements, and modernization needed for test capabilities to conduct and support DT&E and OT&E of aircraft and aircraft systems, aerospace research vehicles, unmanned aerial vehicles, cruise missiles, parachute delivery/recovery systems, cargo handling systems, and turbine engines. APA focuses on evaluation of the vehicle airframe, propulsion system, and avionics systems, as well as overall systems integration testing. It encompasses both ground test facilities and open-air range infrastructure, including instrumentation and data processing. A/M provides planning, improvements and modernization to conduct DT&E of air-to-ground and air-to-air armaments and munitions, which include gun, chaff and flare systems as well as aerial decoy and target systems. The A/M category encompasses the full range of DT&E from digital modeling and simulation, to precision measurement testing, to hardware-in-the-loop and installed systems testing, to open-air range testing. Elements of A/M DT&E include environmental, warhead effectiveness, arena blast/fragmentation, guidance navigation and control, aerodynamics, propulsion, electromagnetic interference and compatibility, mass properties, seeker and signature measurement, survivability, lethality, integration, reliability, net-centric and terminal effects testing. A/M also involves the design and development of systems needed to support A/M DT&E including the design and development sleds, targets, range support systems and various instrumentation and measurement systems. C4ISR provides planning, improvements and modernization to conduct DT&E of systems that support C2 functions which range from air campaign planning at the theater level to wing level C2 operations, to planning individual missions, to putting weapons on target using concepts such as machine to machine targeting. C4ISR includes ground and flight performance testing of airborne C2 networks and tactical data links, air operation centers, mission planning systems, multi-level security systems, radio and communication systems, ISR systems, information assurance systems, and radar systems such as those used by JSTARS and air traffic control systems. C4ISR conducts DT&E on a full range of systems covering the sensor (detection) to the shooter (weapon), including functional and environmental testing of these systems. Space provides planning, improvements, and modernization needed for Space test capabilities to perform developmental and operational testing for space and launch acquisition and sustainment programs. Test capabilities include launch vehicle, satellite, missile, sensor, thermal protection system, signature, hardness, and interface testing. The capabilities are resident at Vandenberg, Kirtland, Arnold, Patrick, Schriever, Peterson, Holloman Air Force Bases and others. Infrastructure includes launch sites, mobile control units, thermal vacuum chambers, sled track, arc heated wind tunnels, ballistic test ranges, signature collection, and the requisite personnel.

Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: I&M Description: Improvement and modernization of the AF capability to test and evaluate Airframe/Propulsion/Avionics (APA) FY 2010 Accomplishments: Continue to support- AFFTC Real-time & Post-flight System Upgrade (ARPSU) improvements to flight telemetry data processing; AFFTC TSPI System Upgrade (ATSU) enhancements to GPS-based TSPI systems; AFFTC	35.841	43.727	37.558	-	37.558

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0604759F: Major T&E Investment	PROJECT 664597: Air Force Test Investments				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Range System Upgrade (ARSU) upgrades to overcome near-term obsolescence; Joint Airborne Instrumentation Integration (JAIL) T&E updates for instrumented airborne platforms; Telemetry Systems Integration & Support (TSIS) improvements to telemetry acquisition systems; VKF Plant Modernization upgrades to supersonic and hypersonic wind tunnels; Tunnel 4T Modernization upgrades to flex nozzle actuators & control systems; Tunnels ABC Modernization to provide superior wind tunnel operations; Advanced Large Military Engine Capability upgrades T3 for testing of advanced high speed air-breathing engines; Ultra High Accuracy Reference System (UHARS) development of a high-accuracy inertial-based TSPI; T&E Board of Directors coordinates Tri-Service investment and Joint T&E Reliance efforts; Airborne Icing Tanker simulates airborne icing conditions; Advanced Small Military (High-Speed) Engine Capability supports high Mach small engine propulsion test requirements. FY 2011 Plans: Continue to support - ARSU upgrades to overcome near-term obsolescence; JAIL T&E updates for instrumented airborne platforms; TSIS improvements to telemetry acquisition systems; VKF Plant Modernization upgrades to supersonic and hypersonic wind tunnels; Tunnel 4T Modernization upgrades to flex nozzle actuators & control systems; Tunnels ABC Modernization to provide superior wind tunnel operations; Advanced Large Military Engine Capability upgrades T3 for testing of advanced high speed air-breathing engines; UHARS development of a high-accuracy inertial-based TSPI; T&E Board of Directors coordinates Tri-Service investment and Joint T&E Reliance efforts; Advanced Small Military (High-Speed) Engine Capability supports high Mach small engine propulsion test requirements; Net-Centric Weapons Test Capability (NCWTC) improves capabilities to test NCW in a live, virtual & constructive environment; Net-Centric Avionics Test System(NCATS) supports approaches to address T&E net-centric warfare and net ready KPP issues. FY 2012 Base Plans: Continue to support - ARSU upgrades to overcome near-term obsolescence; JAIL T&E updates for instrumented airborne platforms; TSIS improvements to telemetry acquisition systems; VKF Plant Modernization upgrades to supersonic and hypersonic wind tunnels; Tunnel 4T Modernization upgrades to flex nozzle actuators & control systems; Tunnels ABC Modernization to provide superior wind tunnel operations; Advanced Large Military Engine Capability upgrades T3 for testing of advanced high speed air-breathing engines; UHARS development of a high-accuracy inertial-based TSPI; T&E Board of Directors coordinates Tri-Service investment and Joint T&E Reliance efforts; Advanced Small Military (High-Speed) Engine Capability supports high Mach small engine propulsion test requirements; NCWTC improves capabilities to test NCW in a live, virtual & constructive environment; NCATS supports approaches to address T&E net-centric warfare and net ready KPP issues. FY 2012 OCO Plans:						

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support		R-1 ITEM NOMENCLATURE PE 0604759F: Major T&E Investment		PROJECT 664597: Air Force Test Investments		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Not applicable.						
Title: I&M (1) Description: Improvement and modernization of the AF capability to test and evaluate Armament/Munitions (A/M) FY 2010 Accomplishments: Continue to support - A/M Digital Modeling & Simulation (DM&S) integration of models into a common suite of reusable tools; Over-Water Impact Scoring System (OWISS) development the capability necessary to test in an overwater environment; Advanced Munitions Test Improvement (AMTI) development of new HITL capabilities for testing advanced seeker/sensor and guidance technologies; Advanced Range Telemetry System (ARTM) for acquiring and upgrading critical TM equipment; Operational Ground Test Facility (OGT) development of capabilities to test munitions in an all-up-round configuration and environment; Advanced Command & Destruct System (ACDS) upgrades of existing command destruct systems; Gulf Range Test & Training Control Center (GRTTCC) integration of range data systems. FY 2011 Plans: Continue to support - OWISS development of capability necessary to test in an overwater environment; AMTI development of new HITL capabilities for testing advanced seeker/sensor guidance technologies; ARTM for acquiring and upgrading critical TM equipment; OGT development of capabilities to test munitions in an all-up-round configuration and environment; ACDS upgrades of existing command destruct systems; GRTTCC integration of range data systems; Joint Gulf Range Area Network Development (JGRAND) advanced mobile fiber optic and microwave communications capabilities improvements. FY 2012 Base Plans: Continue to support - AMTI development of new HITL capabilities for testing advanced seeker/sensor guidance technologies; ARTM for acquiring and upgrading critical TM equipment; ACDS upgrades of existing command destruct systems; GRTTCC integration of range data systems; JGRAND advanced mobile fiber optic and microwave communications capabilities improvements; Combined High Speed/High Resolution EO/IR Imaging provides tracking capability for small, high speed A/M, missiles & airborne platform testing. FY 2012 OCO Plans: Not applicable.		17.423	14.494	23.048	-	23.048
Title: I&M (2)		3.628	3.366	1.600	-	1.600

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0604759F: Major T&E Investment	PROJECT 664597: Air Force Test Investments				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Description: Improvement and modernization of the AF capability to test and evaluate C4ISR</p> <p>FY 2010 Accomplishments: Continue to support - C4ISR Modeling & Simulation to provide the capability to combine synthetic and real-world data to analyze a C4I system's response to operational loads; Command & Control Test Operations Center (C2TOC) development of a Joint Air Operations Center level test capability to support C2 weapons systems.</p> <p>FY 2011 Plans: Continue to support - C4ISR Modeling & Simulation to provide the capability to combine synthetic and real-world data to analyze a C4I system's response to operational loads; C2TOC development of a Joint Air Operations Center level test capability to support C2 weapons systems.</p> <p>FY 2012 Base Plans: Continue to support - C4ISR Modeling & Simulation to provide the capability to combine synthetic and real-world data to analyze a C4I system's response to operational loads; C2TOC development of a Joint Air Operations Center level test capability to support C2 weapons systems.</p> <p>FY 2012 OCO Plans: Not applicable.</p>						
<p>Title: I&M (3)</p> <p>Description: I&M of the AF capability to test and evaluate Space Systems. Current Space Systems I&M efforts were concluded in FY08 with additional efforts planned to begin in FY12.</p> <p>FY 2010 Accomplishments:</p> <p>FY 2011 Plans:</p> <p>FY 2012 Base Plans:</p> <p>FY 2012 OCO Plans: Not applicable.</p>		-	-	-	-	-
Accomplishments/Planned Programs Subtotals		56.892	61.587	62.206	-	62.206
		FY 2010	FY 2011			
Congressional Add: CONGRESSIONAL ADD		7.000	-			

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604759F: Major T&E Investment				PROJECT 664597: Air Force Test Investments			
								FY 2010	FY 2011		
FY 2010 Accomplishments: Continue to support - Holloman High-Speed Test Track / Maglev to develop a magnetically levitated rocket sled test capability at Holloman AFB, NM where the ultimate goal is to develop a Mach 10 ground test capability providing a realistic flight type environment for testing hypersonic propulsion systems, missile seekers/sensors, and warheads; Range Operations Control Center Upgrade project implementation of new technologies to improve range control for a planned increase in flight operations and ground missions to include improved command/control network, flight safety and display systems, Eglin AFB, FL.											
FY 2011 Plans:											
Congressional Adds Subtotals								7.000	-		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• RDT&E AF: PE 0604256F, Threat Simulator Development	25.375	21.245	22.420	0.000	22.420	23.234	22.379	20.592	19.923	Continuing	Continuing
• RDT&E AF (1): PE 0605807F, Test and Evaluation Support	755.992	759.868	654.475	0.000	654.475	578.997	595.567	615.594	613.825	Continuing	Continuing
• RDT&E AF (2): PE 0605976F, Facility Restoration & Modernization	52.190	46.327	44.547	0.000	44.547	45.723	44.236	40.071	38.191	Continuing	Continuing
• RDT&E AF (3): PE 0605978F, Facilities Sustainment	29.559	27.579	27.953	0.000	27.953	28.049	27.220	26.416	25.600	Continuing	Continuing
D. Acquisition Strategy											
This program element uses several different contracting strategies to provide the most cost effective T&E investment solutions. The main acquisition strategy is to use full and open competition wherever possible to improve and modernize existing test capabilities.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

UNCLASSIFIED