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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0604759F / <i>Major T&E Investment</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	45.985	73.302	66.385	0.000	66.385	65.706	66.001	67.265	68.464	Continuing	Continuing
664597: <i>Air Force Test Investments</i>	-	45.985	73.302	66.385	0.000	66.385	65.706	66.001	67.265	68.464	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This PE provides planning, improvements, and modernization for test capabilities at three Air Force Test Center (AFTC) organizations: 96 Test Wing at Eglin AFB FL (to include 96 Test Group at Holloman AFB NM and operating locations at Wright-Patterson AFB OH), Arnold Engineering Development Complex (AEDC) at Arnold AFB TN, and the 412 Test Wing at Edwards AFB CA. The purpose is to help test organizations improve and develop their test infrastructure and capabilities to keep pace with improvements in weapon system technologies.

The improvement and modernization (I&M) requirements are defined through the AF Test Investment Planning & Programming (TIPP) Process. 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 the Technology Development Acquisition Program (TDAP) database. 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 part of the Major Range and Test Facility Base (MRTFB), operated and maintained by the Air Force for DoD Test and Evaluation (T&E). These national test assets are available to others requiring their unique capabilities.

The 96 TW, 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; determines target/test item spectral signatures; and provides Cyber testing capabilities as part of the Joint Information Operations (IO) Range. The 96 TG at Holloman AFB, NM provides independent test and evaluation of inertial navigation systems, Global Positioning System (GPS) 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. The 96 TG, OL-AC at Wright-Patterson AFB, OH provides independent T&E in support of aircraft survivability and full-scale aircraft landing gear T&E. These T&E activities include the development, T&E of aircraft landing gear components supporting engineering acquisition, design, safety, and performance evaluations. In addition, they provide an independent T&E capability for component qualification.

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<p>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.</p> <p>The 412th Test Wing, 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.</p> <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)/Cyber; 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, on-board test aircraft systems, 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 of high speed 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 Command and Control (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 Joint Surveillance Target Attack Radar Systems (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. C4ISR/Cyber also includes DT&E for offensive and defensive Cyber capabilities. Space provides planning, improvements, and modernization needed for 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 reside at Vandenberg, Kirtland, Arnold, Patrick, Schriever, Peterson, Holloman Air Force Bases and others. Infrastructure includes launch sites, mobile control units, thermal vacuum chambers, sled tracks, arc heated wind tunnels, ballistic test ranges, signature collection, and the requisite personnel.</p> <p>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>		

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	47.232	68.302	66.845	0.000	66.845
Current President's Budget	45.985	73.302	66.385	0.000	66.385
Total Adjustments	-1.247	5.000	-0.460	0.000	-0.460
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	5.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-1.247	0.000	-0.460	0.000	-0.460

Change Summary Explanation

FY15: \$1.247M decrease for SBIRs' tax.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
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Title: Airframe/Propulsion/Avionics T&E I&M	32.864	48.962	52.182
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Description: Improvement and modernization of the AF capability to test and evaluate Airframe/Propulsion/Avionics (APA)

FY 2015 Accomplishments:

The Joint Airborne Instrumentation Integration (JAI) Project completed multiple modifications and instrumentation upgrades on T-38, F-16, and F-15 test support aircraft and began modification of KC-10 aircraft for instrumentation installation. The Telemetry Systems Integration Support (TSIS) Project completed remote control upgrades to the telemetry (TM) antenna systems, C-band capability modifications to ground-based TM receivers, and installed antennae to provide TM frequency coverage on the flight line and taxiways at Edwards AFB.

The Advanced Large Military Engine Capability (ALMEC) Project completed the replacement of the Main Drive Exciters; completed Phase 1 efforts to upgrade the Engine Test Facility (ETF) plant control systems, including installation outage and validations tests; completed installation of multiple auto-strainers and other components, including 48" isolation valves, for the Aeropropulsion System Test Facility (ASTF) air supply water system; awarded a GFE contract for the A3B switchgear and unit substation upgrade project; completed the SOW and began the RFP process for the H1 heater tube procurement and H1 Heater Bank 1 upgrade; and completed modifications of the exhaust intercooler for the C1 and C2 test cells.

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>The Improved Transonic Test Capability (IMTTC) Project completed the Critical Design Review (CDR) for the steady state Data Acquisition System (DAS); completed fabrication of the Test Article Control System (TACS), Carts 1 and 3; procured four high-speed cameras for integration test of “dynamic” and “lifetime” Pressure Sensitive Paint (PSP) technology at NASA AMES; and delivered the large model wings-level yaw capability.</p> <p>The Test Instrumentation, Data Systems and Control (TIDSC) Project completed the J2 test cell upgrades (Temperature Measurement Subsystems [DTS] and Voltage Measurement Subsystems [DVS]); completed the C1 test cell upgrade (replacement of the primary data distribution network [PDNe]); completed detailed designs and the CDR for the Arcs facility upgrade (H1/H2/H3 test cells); and initiated detailed design efforts for the J1 facility (turbine engine test cell) upgrade.</p> <p>The Ultra-High Accuracy Reference System (UHARS) Project is complete.</p> <p>The Common Range Integrated Instrumentation System (CRIIS) Production project began three Analysis of Alternative (AoA) studies (Sensor, Data Link, and Long Range) to address Time, Space, Position Information (TSPI) gaps and address design, development and procurement options for upgrading range TSPI instrumentation capabilities. A Technical Requirements Document (TRD) for the Sensor AoA was completed and an RFI was issued; a TRD for the Data Link Analysis of Alternatives (AoA) is in work.</p> <p>The Landing Gear Test Facility (LGTF) Modernization Program held an Industry Day to discuss preliminary designs with potential vendors. A draft design specification has been completed and work on the acquisition strategy initiated.</p> <p>FY 2016 Plans: JAII will complete instrumentation systems upgrades on Edwards AFB T-38 support fleet aircraft, replace outdated range radar systems, and complete ground infrastructure upgrades to enhance network instrumentation, which will complete this project.</p> <p>ALMEC will complete the H1 Heater Bank 1 upgrade; complete installation and checkout of the A3B switchgear and unit substation 9; complete the H1 Heater Bank 1 Roof installation, which will complete the scope of this project; procure the tube material required for the final exhaust intercooler upgrade to be performed in FY17; and begin upgrades for the Engine Test Facility (ETF) Controls Project.</p> <p>IMTTC will complete final detailed design for wind tunnel 16T TACS and begin fabrication and installation; complete acceleration of major procurements that will reduce potential schedule impacts for MDAP test customers in FY16-18; and will complete design and develop procurement documents for the Test Conditions Controls (TCC) and PSP.</p>				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>TIDSC will complete the Arcs facility (H1, H2, and H3 test cells) upgrade; complete the J2 measurement system upgrade; complete the detailed design and hardware procurement for the C2 facility upgrade; and begin the J1 and J2 facility upgrades.</p> <p>CRIIS Production will complete the AoA studies to address TSPI gaps and address design, development and procurement options for upgrading range TSPI instrumentation capabilities. CRIIS Production will also begin Lot 1 procurement of OSD Central Test and Evaluation Investment Program (CTEIP) developed CRIIS TSPI Increment 2 pods, aircraft internal mounts, and ground support infrastructure. Purchase and delivery of initial CRIIS equipment will focus on Eglin AFB IOC.</p> <p>AFMC will initiate improvement and modernization projects to support the AF vision 2023 strategy prioritized by the AF Test Investment Planning & Programming (TIPP) process; these may include Advanced Frequency Control & Analysis, DoD Transonic Test improvements, Mission Control/Communications Upgrades, and Radar TSPI modifications.</p> <p>The LGTF Modernization Program will complete performance specifications, evaluate proposals and begin contract negotiations.</p> <p>The Next Generation Turbine Engine Test Capability (NGTETC) project revitalizes capability to existing AEDC infrastructure to make it more effective and efficient, as well as expands the test envelope to accommodate next generation turbine engine performance characteristics. NGTETC will initiate discussions with contractors on possible exhaust cooler designs; complete preliminary designs on the compressor inbleed, thermal management, and power management systems; and begin hardware procurement for the test cell inlet venture system.</p> <p>The Improved Plant Reliability and Efficiency/Transonic Aero Propulsion Test Capability project will restore specific components and sub-systems in AEDC Wind Tunnel 16T (and to some extent Wind Tunnel 16S) primary drive systems to provide a reliable and fully capable tunnel asset for future test customers. The project will determine requirements and design modifications for the compressor C1 blades, and initiate component analysis and new design integration for the main drive and sub-systems, the C1 compressor sub-systems (refurbish/replace), and the electrical support systems (refurbish/replace).</p> <p>The T&E Board of Directors will continue to lead tri-service investment planning and joint T&E Reliance efforts as directed by the Service Secretaries.</p> <p>FY 2017 Plans: ALMEC will complete upgrades for the ETF controls and restoration of the C Plant H1 heater.</p> <p>IMTTC will continue to install and integrate hardware and software enhancements for TCC and 16T TACS.</p>				

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>TIDSC will complete the C2 facility upgrades.</p> <p>CRIIS Production will continue Lot 1 procurement of OSD CTEIP developed CRIIS TSPI Increment 2 pods, aircraft internal mounts, and ground support infrastructure. Purchase and delivery of initial CRIIS equipment will focus on Eglin AFB IOC.</p> <p>The LGTF Modernization Program will continue design and fabrication (Phase II) efforts and system integration (Phase III).</p> <p>Integrated Network Enhanced Telemetry (iNET) Systems Integration and Support (ISIS) will begin in FY17 by supporting and complementing the CTEIP-funded iNET Program. FY17 efforts will start by implementing the ground command and control (C2) linkages required to support TM between ground stations and aircraft. In FY17, ISIS will begin procuring and installing command transmitters for TM antennas and command transceivers for aircraft, and developing C2 integration with the ground infrastructure. The C2 integration will include upgrading control rooms to support required C2 functions (i.e., display and front end software) and establishing security and network management measures.</p> <p>Common Airborne Networked Instrumentation System (CANIS) will begin by supporting and complementing the CTEIP-funded iNET Program by implementing the airborne solutions. FY17 activity will include implementing spirals 0, 1, and 2 of the CANIS acquisition approach. Spiral 0 modifies Air Force Test Center (AFTC) telemetry policies and procedures and makes use of tier 1 waveforms; Spiral 1 implements multi-band and C-Band transmitter and transceiver conversions; and Spiral 2 establishes a test asset networked data gathering package.</p> <p>NGTETC will continue upgrades to exhaust coolers, compressor inbleed, power and thermal management systems.</p> <p>Modular Mission Control Room Upgrade (MMCRU) will begin in FY17. The initial studies will be undertaken to support the hardware integration (spiral 1), situational awareness integration (spiral 2), and applications migration of the MMCRU implementation. MMCRU establishes a "cloud type" mission control room architecture to enable user friendly access to and distribution of data through Internet Protocol (IP) networks.</p> <p>Improved Plant Reliability and Efficiency/Transonic Aero Propulsion Test Capability will restore the capabilities of the main drive motors (rewind main drive motors M1 and M4), C1 compressor (replace both C1 compressor rotor blades and spacers), main drive motor sub-systems (refurbish/replace), C1 compressor sub-systems (refurbish/replace), and the electrical support systems (refurbish/replace primary Propulsion Wind Tunnel [PWT] facility main drive electrical utilities) to original specifications.</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
The T&E Board of Directors will continue to lead tri-service investment planning and joint T&E Reliance efforts as directed by the Service Secretaries.				
Title: Armament/Munitions T&E I&M		10.295	20.965	7.809
Description: Improvement and modernization of the AF capability to test and evaluate Armament/Munitions (A/M)				
FY 2015 Accomplishments: The Gulf Range Test and Training Control Center (GRTTCC) completed integration and checkout of next generation TM processing systems and upgrades to mission control room computer systems and fiber data links at the 96 TW's Central Control Facility (CCF). The Joint Gulf Range Area Network Development (JGRAND) awarded a contract to develop the Alternative Range Network Operational Control Center (Alt RNOCC) facility at Eglin test site C-3; completed installation of fiber optical cable to connect test sites D-84 to D-1B and D-84 to Building 44; and proceeded with plans to acquire HD video transport equipment for the eastern side of the range. The Combined High-Speed/High Resolution (CHSHR) EO/IR Imaging completed filed verification of upgraded Cinetheodolites (CTs), software and hardware integration testing, modernization of the long-range optical tracker at the Eglin Test and Training Complex (ETTC), as well as deployed five modernized CTs to Test Area (TA) B-70. The project initiated conversion of TA C-72 CTs, investigation of encryption implementation for data security, and the procurement of several high definition cameras for the HHSTT. The Next Generation Munitions Test Environment (NGMTE) Project completed installation of C-80 arena cable infrastructure; completed acceptance testing of 8300fps Gun Design Prototype Common Data Acquisition System; and conducted a site survey for the replacement of the chambers and cooling towers for the Static Test Environment for Munitions (STEM) facility.				
FY 2016 Plans: JGRAND will acquire and begin installation of equipment in the Alt RNOCC; begin implementation of data encryption across the Eglin Range Information Grid (RIG); and acquire and implement optical fiber paths to improve range communication capabilities at the ETTC. CHSHR EO/IR Imaging will implement autonomous designs to B-70 and C-72; acquire and modernize mobile optical tracking systems; and complete evaluation of ultra-high speed camera options for hypersonic speed testing on the high-speed test track.				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>NGMTE will continue to upgrade aging gun and munitions test infrastructure, develop and procure common data instrumentation and acquisition systems, and replace environmental test chambers/facilities supporting gun and arena test capabilities.</p> <p>Start the Airborne Sensor Data Correlation effort. This effort is a research project to prototype fusing unmanned aerial system electro-optical and infrared full motion video to support accurate over-water weapons impact scoring. The results of this effort will help future testing of hypersonic and long-range weapons that require large test areas and larger hazard areas.</p> <p>FY 2017 Plans: CHSHR EO/IR Imaging will complete procurement and delivery of the high-speed digital camera systems and the infrared camera systems; will complete modernization of IR and long-range Cine-T optical tracking systems; and will complete the remote C2 operation upgrades to provide improved tracking capabilities at Eglin AFB.</p> <p>NGMTE will continue to upgrade aging gun and munitions test infrastructure, develop and procure common data instrumentation and acquisition systems, and replace environmental test chambers/facilities supporting gun and arena test capabilities.</p>				
<p>Title: C4ISR T&E I&M</p> <p>Description: Improvement and modernization of the AF capability to test and evaluate C4ISR</p> <p>FY 2015 Accomplishments: The Improved Command and Control (C2) Test Operations Center (I-C2TOC) Project provided for improved capabilities to represent any level of Air Force Operations Centers, including the Squadron Ops Center, Wing Ops Center, and Air Ops Center, to support C4ISR testing at Eglin AFB. I-C2TOC began acquiring computer and network equipment to replace outdated network infrastructure and upgrade servers and workstations.</p> <p>Cyber Defense Test Capability (CDTC) completed the first phase of a Federally-Funded Research and Development Center (FFRDC) study that will provide a detailed analysis of the draft six-step DoD cybersecurity test and evaluation process and determine its adequacy in testing cyber vulnerabilities of acquisition systems under test; the project also initiated the second phase of the study which is to identify manpower requirements and test infrastructure investments.</p> <p>FY 2016 Plans: I-C2TOC will continue C4ISR test network upgrades to C4ISR system hardware and software and replace outdated network infrastructure.</p>		2.826	3.375	6.394

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
The CDTC project will complete the study to develop a detailed implementation methodology for the DoD cybersecurity T&E process and identify manpower requirements and develop a test investment roadmap. FY 2017 Plans: I-C2TOC will continue development of secure network infrastructure and initiate procurement of software and hardware servers and workstations needed to enhance net-centric C2 battle management operations and test control capabilities, and improve communication interfaces and data collection, handling, analysis and display capabilities supporting C4ISR end-to-end weapon system testing at Eglin AFB. The CDTC project will continue in FY17. During this phase, implementation of the plan for acquiring and training the workforce necessary for executing the cybersecurity T&E process will begin.			
Accomplishments/Planned Programs Subtotals	45.985	73.302	66.385

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• RDTE: BA 06: PE 0604256F: <i>Threat Simulator Development</i>	24.318	23.844	21.630	0.000	21.630	22.038	22.426	22.839	23.245	Continuing	Continuing
• RDTE: BA 06: PE 0605807F: <i>Test and Evaluation Support</i>	691.977	683.308	661.417	0.000	661.417	672.180	680.576	693.772	706.945	Continuing	Continuing
• RDTE: BA 06: PE 0605976F: <i>Facility Restoration & Modernization - T&E</i>	46.955	40.518	134.111	0.000	134.111	135.116	125.388	89.071	69.807	Continuing	Continuing
• RDTE: BA 06: PE 0605978F: <i>Facility Sustainment - T&E Support</i>	32.965	27.895	28.091	0.000	28.091	28.637	29.093	29.633	30.158	Continuing	Continuing

Remarks

E. Acquisition Strategy
N/A

F. 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.

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