

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 6 - Management support		PE NUMBER AND TITLE 0605601A - ARMY TEST RANGES AND FACILITIES		
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	
F30 ARMY TEST RANGES & FACILITIES	349886	346431	354693	

A. Mission Description and Budget Item Justification: This project provides the institutional funding required to operate the developmental test activities, in accordance with Section 232 of the FY2003 National Defense Authorization Act (NDAA), required by Department of Defense (DoD) Program Executive Officers, Program and Product Managers, and Research, Development, and Engineering Centers. This project provides resources to operate six elements of the DoD Major Range and Test Facility Base (MRTFB): White Sands Missile Range (WSMR), New Mexico; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; and Yuma Proving Ground (YPG), Arizona, Cold Regions Test Center (CRTC), Fort Greely, Alaska and Tropic Regions Test Center (TRTC) at various locations. This project also funds the Army's developmental test capability at Aviation Technical Test Center (ATTC), Fort Rucker, Alabama; and Redstone Technical Test Center (RTTC), Redstone Arsenal, Alabama. Test planning and safety verification at Headquarters, U.S. Army Developmental Test Command (DTC), Aberdeen Proving Ground, Maryland is also supported by this program element.

This project finances the overhead (institutional) test operating costs not appropriately billed to test customers, test infrastructure/capability sustainment requirements, replacement of test equipment, test operating procedures, and test revitalization/upgrade projects to maintain current testing capabilities and improvements to safety, environmental protection, efficiency of test operations, and technological advances. The developmental test capabilities at these test ranges have been uniquely established, are in place to support test and evaluation (T&E) requirements of funded weapons programs, and are required to assure technical performance, adherence to safety requirements, reliability, logistics supportability, Title 10 Live Fire Test and Evaluation and quality of materiel in development and in production.

In accordance with the FY03 NDAA, this project funds the indirect test costs associated with the rapid testing of systems and equipment needed in support of the Long War Against Terrorism, such as Individual soldier protection equipment and Counter Measures for Improvised Explosive Devices (IEDs) and uparmoring the Army's wheeled vehicle fleet. This project sustains the developmental Test & Evaluation capability required to support Army as well as Joint Service or Other Service systems, materiel, and technologies. Types of systems scheduled for developmental testing include; Aircraft, Air Delivery, Unmanned Aerial Systems, Unmanned Ground Vehicles, Engineering Equipment, Direct fire, Indirect fire, Nonlethal weapons, Ammunition, Automotive Systems, Intelligence Surveillance and Reconnaissance, Ground Soldier Systems, Missiles, Rockets, Directed Energy Weapons, Network Centric and Command, Control, and Communication.

Specific systems supported in FY08 with continued support in FY09 include: Future Combat Systems (FCS), other weapon systems such as: up-armoring vehicle ballistic protection on route clearance vehicles, Family of Medium Tactical Vehicles Long Term Armor Strategy (FMTV LTAS), and Joint Light Tactical Vehicle (JLTV); Stryker upgrades; armor gun shields for tactical vehicles; reactive and active armor; Personnel Screening Systems; the Mine Resistant Ambush Protected (MRAP)Vehicles; Future Combat Systems (FCS) Manned Ground Vehicles; Counter-Rocket Artillery Mortar (C-RAM); High Mobility Artillery Rocket System (HIMARS); Guided Multiple Launch Rocket System (GMLRS) Unitary Rocket; Unattended Ground Sensors; Intelligence Surveillance and Reconnaissance (ISR); Counter Remote Control IED (RCIED) Electronic Warfare (CREW); Warfighter Information Network Tactical (WIN-T); Distributed Common Ground System - Army (DCGS-A); Aerial Common Sensor (ACS); Non Line-of-Sight Launch System (NLOS-LS); Body Armor; High Mobility Multipurpose Wheeled Vehicle (HMMWV); Aviation Transformation (AH-64 Block III, Recon Helicopter, UH-60M Upgrade, JCA); aviation protection systems (Common Missile Warning System (CMWS) and Advanced Threat Infrared Countermeasure (ATIRCM)); missile defense (PAC-3, Terminal High Altitude Area Defense (THAAD), Surfaced Launched Advanced Medium Range Air-to-Air Missile (SLAMRAAM), Joint Land Attack

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY

6 - Management support

PE NUMBER AND TITLE

0605601A - ARMY TEST RANGES AND FACILITIES

Cruise Missile Defense Elevated Netted Sensor System (JLENS)); Unmanned Aerial Systems (Tactical Unmanned Aerial Vehicle, Micro Air Vehicle, Raven B, Extended Range Multi-Purpose, Hunter) , and Unmanned Ground Vehicles (Rabbit, DOK-ING MV-4, MARCBot, PackBot, SWORDS, Talon, Autonomous Navigation System, FCS Class I and IV).

Direct costs are borne by materiel developers in accordance with DoD Directive 3200.11 and DoD Financial Management Regulation 7000.14R.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY

6 - Management support

PE NUMBER AND TITLE

0605601A - ARMY TEST RANGES AND FACILITIES

B. Program Change Summary

	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	355715	342079	339158
Current BES/President's Budget (FY 2010)	349886	346431	354693
Total Adjustments	-5829	4352	15535
Congressional Program Reductions		-1148	
Congressional Recissions			
Congressional Increases		5500	
Reprogrammings	372		
SBIR/STTR Transfer	-6201		
Adjustments to Budget Years			2631

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605601A - ARMY TEST RANGES AND FACILITIES		PROJECT F30
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
F30 ARMY TEST RANGES & FACILITIES	349886	346431	354693

A. Mission Description and Budget Item Justification: This project provides the institutional funding required to operate the developmental test activities, in accordance with Section 232 of the FY2003 National Defense Authorization Act (NDAA), required by Department of Defense (DoD) Program Executive Officers, Program and Product Managers, and Research, Development, and Engineering Centers. This project provides resources to operate six elements of the DoD Major Range and Test Facility Base (MRTFB): White Sands Missile Range (WSMR), New Mexico; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; and Yuma Proving Ground (YPG), Arizona, Cold Regions Test Center (CRTC), Fort Greely, Alaska and Tropic Regions Test Center (TRTC) at various locations. This project also funds the Army's developmental test capability at Aviation Technical Test Center (ATTC), Fort Rucker, Alabama; and Redstone Technical Test Center (RTTC), Redstone Arsenal, Alabama. Test planning and safety verification at Headquarters, U.S. Army Developmental Test Command (DTC), Aberdeen Proving Ground, Maryland is also supported by this program element.

This project finances the overhead (institutional) test operating costs not appropriately billed to test customers, test infrastructure/capability sustainment requirements, replacement of test equipment, test operating procedures, and test revitalization/upgrade projects to maintain current testing capabilities and improvements to safety, environmental protection, efficiency of test operations, and technological advances. The developmental test capabilities at these test ranges have been uniquely established, are in place to support test and evaluation (T&E) requirements of funded weapons programs, and are required to assure technical performance, adherence to safety requirements, reliability, logistics supportability, Title 10 Live Fire Test and Evaluation and quality of materiel in development and in production.

In accordance with the FY03 NDAA, this project funds the indirect test costs associated with the rapid testing of systems and equipment needed in support of the Long War Against Terrorism, such as Individual soldier protection equipment and Counter Measures for Improvised Explosive Devices (IEDs) and uparmoring the Army's wheeled vehicle fleet. This project sustains the developmental Test & Evaluation capability required to support Army as well as Joint Service or Other Service systems, materiel, and technologies. Types of systems scheduled for developmental testing include; Aircraft, Air Delivery, Unmanned Aerial Systems, Unmanned Ground Vehicles, Engineering Equipment, Direct fire, Indirect fire, Nonlethal weapons, Ammunition, Automotive Systems, Intelligence Surveillance and Reconnaissance, Ground Soldier Systems, Missiles, Rockets, Directed Energy Weapons, Network Centric and Command, Control, and Communication.

Specific systems supported in FY08 with continued support in FY09 include: Future Combat Systems (FCS), other weapon systems such as: up-armoring vehicle ballistic protection on route clearance vehicles, Family of Medium Tactical Vehicles Long Term Armor Strategy (FMTV LTAS), and Joint Light Tactical Vehicle (JLTV); Stryker upgrades; armor gun shields for tactical vehicles; reactive and active armor; Personnel Screening Systems; the Mine Resistant Ambush Protected (MRAP)Vehicles; Future Combat Systems (FCS) Manned Ground Vehicles; Counter-Rocket Artillery Mortar (C-RAM); High Mobility Artillery Rocket System (HIMARS); Guided Multiple Launch Rocket System (GMLRS) Unitary Rocket; Unattended Ground Sensors; Intelligence Surveillance and Reconnaissance (ISR); Counter Remote Control IED (RCIED) Electronic Warfare (CREW); Warfighter Information Network Tactical (WIN-T); Distributed Common Ground System - Army (DCGS-A); Aerial Common Sensor (ACS); Non Line-of-Sight Launch System (NLOS-LS); Body Armor; High Mobility Multipurpose Wheeled Vehicle (HMMWV); Aviation Transformation (AH-64 Block III, Recon Helicopter, UH-60M Upgrade, JCA); aviation protection systems (Common Missile Warning System (CMWS) and Advanced Threat Infrared Countermeasure (ATIRCM)); missile defense (PAC-3, Terminal High Altitude Area Defense (THAAD), Surfaced Launched Advanced Medium Range Air-to-Air Missile (SLAMRAAM), Joint Land Attack

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605601A - ARMY TEST RANGES AND FACILITIES	PROJECT F30
--	--	-----------------------

Cruise Missile Defense Elevated Netted Sensor System (JLENS)); Unmanned Aerial Systems (Tactical Unmanned Aerial Vehicle, Micro Air Vehicle, Raven B, Extended Range Multi-Purpose, Hunter) , and Unmanned Ground Vehicles (Rabbit, DOK-ING MV-4, MARCBot, PackBot, SWORDS, Talon, Autonomous Navigation System, FCS Class I and IV).

Direct costs are borne by materiel developers in accordance with DoD Directive 3200.11 and DoD Financial Management Regulation 7000.14R.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Mission Support. Funds support test equipment upgrades and maintenance; test facility maintenance; routine calibration; handling and disposal of hazardous materials, transportation, postage, administrative supplies; tools; software; spare parts; test support vehicle maintenance; mission unique installation costs; temporary duty/training of civilian and contractor personnel; printing and reproduction; utilities; communications; land leases; and range road maintenance. Funding supports indirect cost previously paid by the customer for which funding was realigned, as approved by Assistant Secretary of the Army for Acquisition, Logistics and Technology and validated by Deputy Assistant Secretary of the Army for Cost and Economics, from the Army PEO/PMs and non-Army DOD customers.	135373	115912	124464
T&E Civilian Pay. This funding supports the overhead costs of the civilian labor for Program Budget Guidance (PBG) authorizations. The balance is customer funded. The test customer pays all direct costs that are directly attributable to the use of a test facility or resource for testing of a particular program. Funding is essential to maintain core T&E skills as part of the Government civilian workforce.	124606	130836	143642
Contractor Pay. This funding supports contractor labor costs not appropriately billable to the customer. Contract labor is essential to augment core civilian T&E personnel. Functions performed include range operations, automotive test support, radar maintenance, warehousing support, project management, maintenance of support fleet aircraft, recurring/general maintenance to test facilities and data acquisition support. Funding supports contractor efforts related to mission support.	79907	78368	86587
Revitalization/Upgrade of test infrastructure and capabilities. MRTFB elements are required to use institutional funding to sustain, upgrade or create capabilities that support multiple customers. For FY08 through FY09 funding will be focused on improving test and evaluation capabilities for distributed test operations, joint and Army network centric testing.	10000	10000	
Congressional Add: The purpose of the WSMR test support infrastructure darning and trafficability study is to conduct a study resulting in an analysis of the road infrastructure and an operations and maintenance plan including funding strategies for the long term sustainment of the range road infrastructure and to repair degraded road sections. In addition, the DTC Distributed Test Coordination Cell will support needed maintenance and repair of the facility to include upgrade of physical facilities, power distribution and communications wiring required to support operations		5500	
Small Business Innovative Research/Small Business Technology Transfer Programs		5815	
Total	349886	346431	354693