Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 6: *RDT&E Management Support*					R-1 ITEM NOMENCLATURE PE 0605601A: *ARMY TEST RANGES AND FACILITIES*							
COST ($ in Millions)	**All Prior Years**	**FY 2012**	**FY 2013#**	**FY 2014 Base**	**FY 2014 OCO ##**	**FY 2014 Total**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**Cost To Complete**	**Total Cost**
Total Program Element	-	366.327	369.900	340.659	-	340.659	325.178	277.847	278.681	320.330	Continuing	Continuing
F30: *ARMY TEST RANGES & FACILITIES*	-	366.327	369.900	340.659	-	340.659	325.178	277.847	278.681	320.330	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

Note

11. Adjustments to Budget Years - Army consolodated three Test and Evaluation Command Headquarters: Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC), and Army Evaluation Center (AEC). As a result of this consolidation, ATEC aligned all requirements under one Program Element. Funds reprogrammed effective FY14.

13. Other Adjustments 2 - Restoral of RMD703 wedge placed erroneously in PE0605601A: efficiency - civilian hiring freeze (99,568 in FY2012).

14. Other Adjustments 3 - Adjustment due to RMD700A1 issued 7 December 2012, directing HME funding by realigning funds from PE0605601A to PE0605602A for fiscal years FY2014 (3,464) and FY2015 (4,152)

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. Resources provided by this project operate seven elements of the DOD Major Range and Test Facility Base (MRTFB): White Sands Test Center (WSTC),White Sands Missile Range, New Mexico; High Energy Laser System Test Facility (HELSTF), White Sands Test Center, White Sands Missile Range, New Mexico; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; and Yuma Test Center (YTC), Yuma Proving Ground, 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 Redstone Test Center (RTC), Redstone Arsenal, Alabama.

This project finances the overhead (institutional) test operating cost not appropriately billed to test customers, recurring 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, transportability, environmental effects, electromagnetic effects, 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 Overseas Contingency Operations (OCO), such as individual soldier protection equipment and up-armoring the Army's wheeled vehicle fleet. This project sustains

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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, Air and Missile Defense Systems, Engineering Equipment, Direct fire, Indirect fire, Nonlethal weapons, Ammunition, Automotive Systems, Intelligence Surveillance and Reconnaissance, Ground Soldier System, Missiles, Rockets, Directed Energy Weapons, Network Centric and Command, Control, and Communication.

Specific systems supported in FY13 with continued support in FY14 include: Network Integration Evaluations (NIE), personnel protective equipment (including Body Armor), 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; Individual Semi-Automatic Airburst System (XM25 ISAAS); the Mine Resistant Ambush Protected (MRAP) Vehicles; Rocket, Artillery, Mortar (RAM); Guided Multiple Launch Rocket System (GMLRS) Unitary Rocket; Counter Remote Control IED (RCIED) Electronic Warfare (CREW); Warfighter Information Network Tactical (WIN-T); Distributed Common Ground System - Army (DCGS-A); Aviation Transformation (AH-64 Block III); aviation protection systems (Common Missile Warning System (CMWS) and Common Infrared Countermeasure (CIRCM), missile defense (PAC-3), Terminal High Altitude Area Defense (THAAD)); Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS); Unmanned Aerial Systems (Tactical Unmanned Aerial Systems, Extended Range Multi-Purpose, Hunter, RQ-16 Class I UAS, Long Endurance Multi-INT Vehicle (LEMV, Telluride, Raven)); Unmanned Ground Vehicles (Small Unmanned Ground Vehicle (SUGV), Grey Eagle, Kiowa Warrior Upgrades, CMWS Hostile Fire Indication, Excalibur, Green Ammo, Nett Warrior, Joint Tactical Radio System (JTRS), Joint Battle Command-Platform (JBC-P) Aircraft Hostile Fire Detection System (HFDS), Paladin Integrated Management (PIM), and Longbow Hellfire Modular Missile System (LBHMMS)).

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

B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	311.650	369.900	366.330	-	366.330
Current President's Budget	366.327	369.900	340.659	-	340.659
Total Adjustments	54.677	0.000	-25.671	-	-25.671
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	3.377	-			
• Adjustments to Budget Years	-	-	-22.207	-	-22.207
• Other Adjustments 2	51.300	-	-3.464	-	-3.464

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COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
F30: *ARMY TEST RANGES & FACILITIES*	-	366.327	369.900	340.659	-	340.659	325.178	277.847	278.681	320.330	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

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This project finances the overhead (institutional) test operating cost not appropriately billed to test customers, recurring 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, transportability, environmental effects, electromagnetic effects, 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 Overseas Contingency Operations (OCO), such as individual soldier protection equipment 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, Air and Missile Defense Systems, Engineering Equipment, Direct fire, Indirect fire, Nonlethal weapons, Ammunition, Automotive Systems, Intelligence Surveillance and Reconnaissance, Ground Soldier System, Missiles, Rockets, Directed Energy Weapons, Network Centric and Command, Control, and Communication.

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(CIRCM), missile defense (PAC-3), Terminal High Altitude Area Defense (THAAD)); Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS); Unmanned Aerial Systems (Tactical Unmanned Aerial Systems, Extended Range Multi-Purpose, Hunter, RQ-16 Class I UAS, Long Endurance Multi-INT Vehicle (LEMV, Telluride, Raven)); Unmanned Ground Vehicles (Small Unmanned Ground Vehicle (SUGV), Grey Eagle, Kiowa Warrior Upgrades, CMWS Hostile Fire Indication, Excalibur, Green Ammo, Nett Warrior, Joint Tactical Radio System (JTRS), Joint Battle Command-Platform (JBC-P) Aircraft Hostile Fire Detection System (HFDS), Paladin Integrated Management (PIM), and Longbow Hellfire Modular Missile System (LBHMMS)).

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

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Mission Support	171.960	157.992	131.944
Articles:	0	0	

Description: 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; 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.

FY 2012 Accomplishments:

Funded 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; communications; land leases; and range road maintenance. Funding supported 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.

FY 2013 Plans:

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; 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

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Technology and validated by Deputy Assistant Secretary of the Army for Cost and Economics, from the Army PEO/PMs and non-Army DOD customers. ***FY 2014 Plans:*** Funds will 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; communications; land leases; and range road maintenance. Funding will support 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.			
Title: T&E Civilian Pay	121.539	134.829	136.588
Articles:	0	0	
Description: 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. ***FY 2012 Accomplishments:*** Funded the overhead costs of the civilian labor for Program Budget Guidance (PBG) authorizations. The balance was customer funded. The test customer paid all direct costs that are directly attributable to the use of a test facility or resource for testing of a particular program. Funding was essential to maintain core T&E skills as part of the Government civilian workforce. ***FY 2013 Plans:*** Funds support 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. ***FY 2014 Plans:*** Funds will support the overhead costs of the civilian labor for Program Budget Guidance (PBG) authorizations. The balance will be customer funded. The test customer will pay all direct costs that are directly attributable to the use of a test facility or resource for testing of a particular program. Funding will be essential to maintain core T&E skills as part of the Government civilian workforce.			
Title: Contractor Support	55.477	64.105	62.127

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Articles:	0	0	
Description: 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. ***FY 2012 Accomplishments:*** Funded contractor labor costs not appropriately billable to the customer. Contract labor was 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 supported contractor efforts related to mission support. ***FY 2013 Plans:*** Funds support contractor labor costs not appropriately billable to the customer. Contract labor is essential to augment core civilian T&E personnel. Functions performed includes 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. ***FY 2014 Plans:*** Funds will support contractor labor costs not appropriately billable to the customer. Contract labor will be essential to augment core civilian T&E personnel. Functions performed will 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 will support contractor efforts related to mission support.			
Title: Revitalization/Upgrade	5.000	10.000	10.000
Articles:	0	0	
Description: Funds support the 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. Funding will be focused on improving test and evaluation capabilities for the highest priority Army programs. ***FY 2012 Accomplishments:***			

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Funded revitalization/upgrade of test infrastructure and capabilities. MRTFB elements were required to use institutional funding to sustain, upgrade or create capabilities that support multiple customers. Funding was focused on improving test and evaluation capabilities for the highest priority Army programs. ***FY 2013 Plans:*** Funds supports the 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. Funding is focused on improving test and evaluation capabilities for the highest priority Army programs. ***FY 2014 Plans:*** Funds will support the revitalization/upgrade of test infrastructure and capabilities. MRTFB elements will be required to use institutional funding to sustain, upgrade or create capabilities that support multiple customers. Funding will be focused on improving test and evaluation capabilities for the highest priority Army programs.			
Title: Automotive Technology Facility (ATEF) ***Articles:*** ***Description:*** Provides funding for sustainment and maintenance for the Automotive Technology Facility (ATEF). ATEF is an engineered test track located at Aberdeen Proving Ground, Maryland for sustained high speed testing of the entire gamut of wheeled and tracked vehicles, manned and robotic, ranging from 2 to 119 tons on multiple surfaces. ***FY 2012 Accomplishments:*** Funded the sustainment and maintenance for the Automotive Technology Facility (ATEF) requirements.	0.900 0	0.000	0.000
Title: Critical Overseas Contingency Operations Requirements ***Articles:*** ***Description:*** Funding is provided for the following effort: ***FY 2012 Accomplishments:*** The purpose for this request was the requirement for additional funding to support increased infrastructure sustainment requirements that had resulted from supporting unplanned workload. This unplanned workload reduced funds available to test capability sustainment and facility upgrades and increased wear and tear on test facilities and equipment used during tests. Obligation of funds to supported unanticipated work with a subsequent negative impact upon sustainment requirements.	8.513 0	0.000	0.000
Title: High Energy Laser System Test Facility (HELSTF) ***Articles:***	2.938 0	2.974 0	0.000

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Description: Provides partial funding for the sustainment requirement for HELSTF capability at White Sands Missile Range (WSMR) in New Mexico. HELSTF includes an array of chemical and solid state laser systems, beam directors, sensors, associated test instrumentation and centralized data processing capabilities. ***FY 2012 Accomplishments:*** Partially funded the sustainment requirement for HELSTF capability at White Sands Missile Range (WSMR) in New Mexico. HELSTF included an array of chemical and solid state laser systems, beam directors, sensors, associated test instrumentation and centralized data processing capabilities. ***FY 2013 Plans:*** Provides partial funding for the sustainment requirement for HELSTF capability at White Sands Missile Range (WSMR) in New Mexico. HELSTF includes an array of chemical and solid state laser systems, beam directors, sensors, associated test instrumentation and centralized data processing capabilities.			
Accomplishments/Planned Programs Subtotals	366.327	369.900	340.659

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.