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

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 6: <i>RDT&amp;E Management Support</i>				PE 0605601A: <i>ARMY TEST RANGES AND FACILITIES</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	346.015	393.937	262.456	8.513	270.969	277.990	283.868	262.727	235.575	Continuing	Continuing
F30: <i>ARMY TEST RANGES &amp; FACILITIES</i>	346.015	393.937	262.456	8.513	270.969	277.990	283.868	262.727	235.575	Continuing	Continuing

**Note**

Efficiency -- Civilian Hiring Freeze...\$99.568 million in FY12 and \$345.333 million in the FYDP to implement an Army-wide freeze on the number of Civilian positions pending a review of staffing, organization, and operations as a whole.

\$1869 Adjustment to budget years.

OCO \$8.513 million is for support of DTC's increased infrastructure sustainment requirements.

**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 Redstone Test Center (RTC), Redstone Arsenal, Alabama. Test planning and safety verification at Headquarters, U.S. Army Development Test Command (DTC), Aberdeen Proving Ground, Maryland is also supported by this program element.

This project finances the overhead (institutional) test operating cost 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 Overseas Contingency Operations (OCO), 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 System, Missiles, Rockets, Directed Energy Weapons, Network Centric and Command, Control, and Communication.

Specific systems supported in FY11 with continued support in FY12 include: 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);

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605601A: <i>ARMY TEST RANGES AND FACILITIES</i>
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Stryker upgrades; armor gun shields for tactical vehicles; reactive and active armor; Personnel Screening Systems; the Mine Resistant Ambush Protected (MRAP) 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); Aviation Transformation (AH-64 Block III and 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 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), Multi-Mission UGV/Armed Robotic Vehicle ? Assault Light (ARV-AL), Remote Mine Detection Systems (RMDS), M160, Workhouse, Piano, Modular Advanced Armed Robot System (MAARS), Kiowa Warrior Upgrades, Hostile Fire Indication, Excalibur, Green Ammo, Remote Weapon Station (RWS), Joint Chemical Agent Detector (JCAD) M4EI, Nett Warrior, Mounted Soldier System (MSS), Joint Tactical Radio System (JTRS), and Interim Brigade Combat System (IBCT).

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

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	352.845	393.937	363.893	-	363.893
Current President's Budget	346.015	393.937	262.456	8.513	270.969
Total Adjustments	-6.830	-	-101.437	8.513	-92.924
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-6.830	-			
• Adjustments to Budget Years	-	-	-101.437	8.513	-92.924

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army								<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 6: <i>RDT&amp;E Management Support</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605601A: <i>ARMY TEST RANGES AND FACILITIES</i>				<b>PROJECT</b> F30: <i>ARMY TEST RANGES &amp; FACILITIES</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
F30: <i>ARMY TEST RANGES &amp; FACILITIES</i>	346.015	393.937	262.456	8.513	270.969	277.990	283.868	262.727	235.575	Continuing	Continuing
Quantity of RDT&E Articles											

**Note**

Efficiency -- Civilian Hiring Freeze.....-\$99.568 million in FY12 and \$345.333 million in the FYDP Implement an Army-wide freeze on the number of Civilian positions pending a review of staffing, organization, and operations as a whole.

**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 Redstone Test Center (RTC), Redstone Arsenal, Alabama. Test planning and safety verification at Headquarters, U.S. Army Development Test Command (DTC), Aberdeen Proving Ground, Maryland is also supported by this program element.

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**UNCLASSIFIED**

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011			
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	PROJECT F30: ARMY TEST RANGES & FACILITIES				
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); Aviation Transformation (AH-64 Block III and 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 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), Multi-Mission UGV/Armed Robotic Vehicle ? Assault Light (ARV-AL), Remote Mine Detection Systems (RMDS), M160, Workhouse, Piano, Modular Advanced Armed Robot System (MAARS), Kiowa Warrior Upgrades, Hostile Fire Indication, Excalibur, Green Ammo, Remote Weapon Station (RWS), Joint Chemical Agent Detector (JCAD) M4EI, Nett Warrior, Mounted Soldier System (MSS), Joint Tactical Radio System (JTRS), and Interim Brigade Combat System (IBCT). 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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Mission Support  Articles:  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 2010 Accomplishments: 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 2011 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		93.5910	133.3170	72.760	-	72.760

**UNCLASSIFIED**

**UNCLASSIFIED**

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
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 Base 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 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					
Articles:					
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 2010 Accomplishments: 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 2011 Plans: 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					

**UNCLASSIFIED**

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
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 Base Plans: 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.					
Title: Contractor Support					
Articles:					
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 2010 Accomplishments: 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 2011 Plans: 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 Base Plans: 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					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
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.						
<b>Title:</b> Revitalization/Upgrade <div>Articles:</div> <b>Description:</b> 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 distributed test operations, joint and Army network centric testing. <b>FY 2011 Plans:</b> 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 distributed test operations, joint and Army network centric testing. <b>FY 2012 Base Plans:</b> 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 distributed test operations, joint and Army network centric testing.		-	24.808 0	5.000	-	5.000
<b>Title:</b> Automotive Technology Facility (ATEF) <div>Articles:</div> <b>Description:</b> 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. <b>FY 2011 Plans:</b> Provides funding for sustainment and maintenance for the Automotive Technology Facility (ATEF) requirements. <b>FY 2012 Base Plans:</b> Provides funding for sustainment and maintenance for the Automotive Technology Facility (ATEF) requirements.		-	0.812 0	0.900	-	0.900
<b>Title:</b> Critical Overseas Contingency Operations Requirements		-	-	-	8.513	8.513

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><b>Description:</b> Funding is provided for the following effort</p> <p><b>FY 2012 Base Plans:</b> This project only has OCO dollars for FY12</p> <p><b>FY 2012 OCO Plans:</b> The purpose for this request is the requirement for additional funding to support DTC's increased infrastructure sustainment requirements that have resulted from supporting unplanned OCO workload in FY09 and FY10. This unplanned workload reduced funds available to test capability sustainment and facility upgrades and increased wear and tear on instrumentation and equipment used during tests. DTC has been obligating funds to support unanticipated OCO work with a subsequent negative impact upon sustainment requirements.</p>					
<p><b>Title:</b> High Energy Laser System Test Facility (HELSTF)</p> <p><b>Description:</b> 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.</p> <p><b>FY 2012 Base Plans:</b> 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.</p>	-	-	2.938	-	2.938
<b>Accomplishments/Planned Programs Subtotals</b>	346.015	393.937	262.456	8.513	270.969

  

**C. Other Program Funding Summary (\$ in Millions)**  
N/A

**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.

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