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

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>				PE 0605602A: <i>Army Technical Test Instrumentation and Targets</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	82.054	59.040	70.227	-	70.227	68.506	63.861	62.092	64.574	Continuing	Continuing
628: <i>Developmental Test Technology & Sustainment</i>	53.105	37.024	47.051	-	47.051	45.075	44.271	42.667	46.226	Continuing	Continuing
62C: <i>MODELING AND SIMULATION INSTRUMENTATION</i>	28.949	22.016	23.176	-	23.176	23.431	19.590	19.425	18.348	Continuing	Continuing

Note

Technical Correction \$5000
S&T BOS ADJ \$5000
Hard Body Armor Testing \$1075
RMD 700A3 TF Initiatives -\$504
RMD 702 NON Fuel Price/NON Pay Inf -\$149

A. Mission Description and Budget Item Justification

Effective FY09, 62B and 62C were combined into one line - 62C to accurately reflect the interwoven use of both Modeling and Simulation (M&S) and instrumentation in support of operational and developmental testing.

This Program Element provides critical front-end investments for development of new test methodologies; test standards; advanced test technology concepts for long range requirements; future test capabilities; advanced development of M&S and instrumentation prototypes; and the full development of systems for the United States Army Test and Evaluation Command (ATEC), which includes the Developmental Test Command (DTC) at Aberdeen Proving Ground, Maryland and the Operational Test Command (OTC) at Ft Hood, Texas. DTC consists of seven Test Centers: Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; White Sands Test Center (WSTC) at White Sands Missile Range (WSMR), New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Yuma Test Center (YTC) at Yuma Proving Grounds (YPG), Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska and the Tropics Regions Test Center (TRTC), at various locations); Redstone Test Center (RTC), Redstone Arsenal and FT Rucker, Alabama; and West Desert Test Center (WDTC) at Dugway Proving Ground (DPG), Utah. OTC consists of four forward Test Directorates (Airborne Special Operations Test Directorate, Fort Bragg, North Carolina; Air Defense Artillery Test Directorate, Fort Bliss, Texas; Fire Support Test Directorate, Fort Sill, Oklahoma; and Intelligence Electronic Warfare Test Directorate, Fort Huachuca, Arizona) together with five other Test Directorates (Aviation; Maneuver; Battle Command and Computers; Engineer and Combat Support; and Future Force) at Ft Hood, Texas. These capabilities support the development and fielding cycle of all Army acquisition programs including rapid fielding initiatives in support of operations in Iraq and Afghanistan. Sustainment funding maintains existing testing capabilities at both DTC and OTC by replacing unreliable, uneconomical, and irreparable instrumentation, as well as incremental upgrades of hardware and software for M&S and instrumentation systems to assure adequate test data collection capabilities. This data supports acquisition milestone decisions for all commodity areas throughout the Army including programs such as the Mine Resistant Ambush Protected (MRAP) vehicles, Ground Combat Vehicle (GCV), Brigade Combat Team Modernization (BCT-M), Terminal High Altitude Area Defense (THAAD), Patriot Advance Capability Phase 3 (PAC 3), Mobile Gun System (MGS), Warfighter Information Network - Tactical (WIN-T), Joint Tactical Radio System (JTRS), and the Army Battle

UNCLASSIFIED

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605602A: <i>Army Technical Test Instrumentation and Targets</i>
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Command System (ABCS) which includes Force XXI Battle Command Brigade and Below (FBCB2)/Blue Force Tracking (BFT). This Program Element develops and sustains developmental and operational test capabilities that provide key support to the Army's Transformation. In addition this Program Element supports Oversease Contingency Operations by providing instrumentation to support ATEC's 24/7 mission at YTC, Arizona, WSMR, New Mexico and ATC, Maryland supporting the Joint Improvised Explosive Device Defeat Organization (JIEDDO) - as well as efforts throughout ATEC in support of the Army's Rapid Equipping the Force (REF) initiative.

B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	84.389	59.040	60.426	-	60.426
Current President's Budget	82.054	59.040	70.227	-	70.227
Total Adjustments	-2.335	-	9.801	-	9.801
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.335	-			
• Adjustments to Budget Years	-	-	9.801	-	9.801

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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 0605602A: Army Technical Test Instrumentation and Targets				PROJECT 628: Developmental Test Technology & Sustainment			
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
628: Developmental Test Technology & Sustainment	53.105	37.024	47.051	-	47.051	45.075	44.271	42.667	46.226	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>This program provides critical front-end investments for development of new test methodologies, test standards, advanced test technology concepts for long range requirements, future test capabilities, and advanced instrumentation prototypes for the United States Army Developmental Test Command (DTC), a subordinate command of the Army Test and Evaluation Command (ATEC), which includes: Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; White Sands Test Center (WSTC) at White Sands Missile Range (WSMR), New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Yuma Test Center (YTC) at Yuma Proving Ground (YPG), Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska and the Tropic Regions Test Center (TRTC), (at various locations); Redstone Test Center (RTC), Redstone Arsenal and Ft Rucker, Alabama; and West Desert Test Center (WDTC) Dugway Proving Ground (DPG), Utah. These capabilities are required to support developmental testing requirements of high priority Army systems being rapidly fielded to Iraq and Afghanistan, and those systems supporting Army modernization efforts.</p> <p>A key element is sustaining aging instrumentation which maintains existing capabilities at test facilities by replacing unreliable, uneconomical and irreparable instrumentation, as well as incremental upgrades of instrumentation and software, reducing their average age to assure adequate testing capabilities. This project develops and sustains developmental test instrumentation and capabilities that provide the data necessary to support acquisition milestone decisions for all commodity areas throughout the Army. Significant examples include new instrumentation for the testing of body armor and other soldier protective equipment, advanced methods for testing the survivability of ground vehicles and aircraft, refurbishment of kineto-tracking mounts (precise optical instruments used in missile and aviation testing), and an expanded instrumentation suite in support of the growing mission to test Command, Control, Communication and Computer (C4) systems</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2010	FY 2011	FY 2012	
Title: Program Management								5.226	4.957	5.952	
								Articles: 0	0		
Description: Provides command-level oversight, management and technical support for the DTC test technology and instrumentation investment accounts. Provides support to ATEC Capstone efforts in coordinating development of common instrumentation and technology needs for developmental and operational testing. Provides management and support costs for direct interface with the T&E Executive Agent, management of needs and solutions calls for T&E Reliance oversight, management of the Small Business Innovation Research (SBIR), and support of the Army principal of the Test Resource Advisory Group (TRAG).											
FY 2010 Accomplishments:											

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
Continuation of the existing requirement for the development of common instrumentation and technology to support developmental and operational testing. Management of the Small Business Innovation Research (SBIR), and support of the Army principal of the Test Resource Advisory Group (TRAG). FY 2011 Plans: Continuation of the existing requirement for the development of common instrumentation and technology to support developmental and operational testing. Management of the Small Business Innovation Research (SBIR), and support of the Army principal of the Test Resource Advisory Group (TRAG). FY 2012 Plans: Continuation of the existing requirement for the development of common instrumentation and technology to support developmental and operational testing. Management of the Small Business Innovation Research (SBIR), and support of the Army principal of the Test Resource Advisory Group (TRAG).					
Title: Developmental Test Technology Investment Description: Develops, acquires and sustains critical test technology and instrumentation: Provides the necessary test instrumentation, computer and communications systems, data collection, analysis and reporting equipment and other test capabilities to successfully develop and test the Army weapons and equipment. Provides the necessary live, virtual and constructive environment, hardware-in-the-loop capabilities and models and simulations needed for testing the Army materiel. Acquires instrumentation for reliability, availability and maintainability (RAM) data collection on tracked and wheeled vehicles; ballistic transducers for measuring chamber pressures during ammunition tests; supports development of common data collection instrumentation used in testing across all test commodity areas; acquires instrumentation for electromagnetic environment effects on ground and air systems; continues replacement and upgrade of range control instrumentation, radar, optics and telemetry equipment used in missile testing; acquires data recorders, signal conditioning equipment, data processing equipment and other instrumentation for various aircraft tests; upgrades natural environments test instrumentation used for testing weapon systems, vehicles, munitions and support equipment in extreme hot desert environments as well as extreme cold conditions; continues upgrade of survivability/vulnerability test capabilities in support of live fire and active protection systems; upgrades and replaces mobile range communications equipment and digital end devices; and develops advanced test technologies and instrumentation for testing next generation materiel such as advanced armor protection, multi-spectral sensors, and advanced soldier systems. Upgrades Kineto Tracking Mounts at YPG. FY 2010 Accomplishments:			36.281 0	28.815 0	36.853

UNCLASSIFIED

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
Continue to provide, acquire and upgrade instrumentation for RAM, ballistic, and environmental testing across all test commodity areas and support the test capability of live fire protection systems. FY 2011 Plans: Continue to provide, acquire and upgrade instrumentation for RAM, ballistic, and environmental testing across all test commodity areas and support the test capability of live fire protection systems. FY 2012 Plans: Continue to provide, acquire and upgrade instrumentation for RAM, ballistic, and environmental testing across all test commodity areas and support the test capability of live fire protection systems.					
Title: Automotive Technology Evaluation Facility Description: Automotive Technology Evaluation Facility (ATEF) Test Track Upgrades - An automated traffic control system will be installed to monitor vehicle positions on the course and control accesses to and from the facility. Continuous vehicle monitoring is required for range safety and automatic collision avoidance while simultaneously conducting sustained speed endurance, vehicle dynamics and stability, robotic/autonomous vehicle control and traction control testing. FY 2011 Plans: Maintain automated traffic control system and continue monitoring range safety while conducting simultaneous vehicle testing. FY 2012 Plans: Maintain automated traffic control system and continue monitoring range safety while conducting simultaneous vehicle testing.			-	2.600 0	3.000
Title: Army Test and Evaluation Command (ATEC) Common Test Technology for Developmental Testing, Operational Testing, and Evaluation Description: Army Test and Evaluation Command (ATEC) Common Test Technology for Developmental Testing, Operational Testing, and Evaluation. Provides support for development of the Versatile Information System Integrated, On-line (VISION) Digital Library to enable a centrally accessible repository for test data; development of a Test and Evaluation Enterprise Architecture to facilitate use of common tools and standards; support for critical Test Technology Domain Focus Areas of Instrumentation, Modeling and Simulation, Threats, Data Management, and Networks; and support, implementation of ATEC Regulation 70-15 FY 2010 Accomplishments:			0.638 0	0.652 0	1.246

UNCLASSIFIED

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
Continue to provide support for development of the VISION digital library, the development of test and evaluation enterprises to facilitate use of common tools and standards. Continue to support critical test technology domain focus areas of instrumentation, modeling and simulation, threats, data management and Networks. Implementation of ATEC Reg 70-15 FY 2011 Plans: Continue to provide support for development of the VISION digital library, the development of test and evaluation enterprises to facilitate use of common tools and standards. Continue to support critical test technology domain focus areas of instrumentation, modeling and simulation, threats, data management and Networks. Implementation of ATEC Reg 70-15 FY 2012 Plans: Continue to provide support for development of the VISION digital library, the development of test and evaluation enterprises to facilitate use of common tools and standards. Continue to support critical test technology domain focus areas of instrumentation, modeling and simulation, threats, data management and Networks. Implementation of ATEC Reg 70-15					
Title: Congressional Add Description: Funding is provided for the following effort FY 2010 Accomplishments: WSMR \$1.6M Define Renewable Energy Sources for Base Energy Independence provides seed funding to lay out plans for energy generation and storage considering Solar, Small Nuclear Power plants, geothermal and DoE power storage concepts. WSMR \$3.76 Phase II, Regional Partnership - Ft Bliss, WSMR, Holloman develops tools to schedule, deconflict and coordinate real-time test and training missions at the White Sands Missile Range, Ft. Bliss and Holloman Air Force Base. These tools will coordinate use of regional assets such as air space, land usage and radio/radar frequencies. DPG \$3.6M Dugway Field Test Improvements will upgrade field testing capabilities to monitor and analyze chemical aerosol simulant releases in the air and their deposition on surfaces. DPG \$2.0M Multiple Source Data Fusion for Dugway PG improves the capability to address the rapidly evolving CB aerosol threats including development of a new standoff referee instrumentation and data fusion methods for combining data from referee instrumentation with simulations and models.			Articles: 10.960 0	-	-
Accomplishments/Planned Programs Subtotals			53.105	37.024	47.051

UNCLASSIFIED

UNCLASSIFIED

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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.		

UNCLASSIFIED

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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
62C: MODELING AND SIMULATION INSTRUMENTATION	28.949	22.016	23.176	-	23.176	23.431	19.590	19.425	18.348	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
The United States Army Operational Test Command (USAOTC) plans, conducts and reports on operational tests, assessments and experiments in order to provide essential information for the acquisition and fielding of Warfighting systems. Operational Test (OT) Instrumentation collects required data from both the systems being tested and the surrounding activity. OT Simulation enhances the live forces conducting operational testing by simulating additional units, message traffic, effects, and terrain. The Army?s OPTEMPO has reduced the number of tactical units and vehicles available to support OT, making augmentation through simulation necessary to test in a realistic, operational environment. PEO STRI PM ITTS provides development of major simulation and instrumentation systems while USAOTC adapts systems from other organizations, purchases off-the-shelf systems, develops minor new systems, and sustains all USAOTC simulation and instrumentation systems. The OT Simulation and Instrumentation(S&I) (Sustainment and Minor Development) program funds the expertise and the adaptation, purchases, minor development and sustainment requirements that support systems undergoing OT. Costs unique to specific systems under test may require PM funding.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2010	FY 2011	FY 2012	
Title: ATEC Common Technology Tools Articles: Description: These funds also support development of the Command, Control and Communication Driver (C3 Driver), Test and Evaluation Enterprise Architecture (TEEA), and ATEC Technology Tools. The C3 Driver supports the Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR), ABCS 6.3, 6.4, BCTM, JTRS, and WIN-T development and integration at the Central Technical Support Facility (CTSF) Fort Hood, TX and contractor locations as the Army's single DT C3 simulator/stimulator, etc. FY 2010 Accomplishments: Funds the development of the C3 Driver, TEEA, and ATEC Common Technology Tools. FY 2011 Plans: Funds the development of the C3 Driver, TEEA, and ATEC Common Technology Tools. FY 2012 Plans: Funds the development of the C3 Driver, TEEA, and ATEC Common Technology Tools.								3.265	2.144	0.736	
								0	0		
Title: Modeling, Simulation and Instrumentation								24.724	19.872	22.440	
Articles:								0	0		

UNCLASSIFIED

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
<p>Description: The individual accomplished technology projects within all the domains as described in ATEC Regulation 70-15, Table 1, 22 Mar 06, include but are not limited to: DoD Information Assurance Certification and Accreditation Process (DIACAP) for many OTC Modeling, Simulation, and Instrumentation Systems, Sustainment and Operations of all OTC Technology Capabilities and associated data management, Test Technology Integration, OASIS, Test Technology Execution Capabilities, Network Control Systems/Battle Command Simulation, and Instrumentation, RTCA, ExCIS FSA, ISR Simulation and Instrumentation - IMASE, Automated Rigging Kit Analysis Tool Sustainment (ARKAT), and Performance Instrumentation Systems, etc.</p> <p>FY 2010 Accomplishments: Funds were utilized for the sustainment, development, and upgrade of OTC's high priority modeling, simulation, and instrumentation systems identified under the POM submission FY10-15. The programs executed that fall under the ATEC domain categories shown above but were not limited to: RTCA sustainment and minor upgrades, TTEC Operations for M&S sustainment, upgrade, and integration of systems of systems, OTC Technology Base Support, ExCIS FSA, IMASE ISSS & ISGT, BCNIS, Geometric Advanced Video Enhanced Location Systems (GAVELS), Mobile Optical Tracking Systems, Automated Rigging Kit Tool, GPS Modernization, High-speed Digital Recording System, and OASIS Integration.</p> <p>FY 2011 Plans: FY11 Planned Programs: Funds will be utilized for the sustainment, development, and upgrade of OTC's high priority modeling, simulation, and instrumentation systems identified under the POM submission FY12-17. The programs executed that fell under the ATEC's domain categories shown above but were not limited to: RTCA sustainment and minor upgrades, TTEC Operations for M&S sustainment, upgrade, and integration of systems of systems, OTC Technology Base Support, ExCIS FSA, IMASE ISSS & ISGT, BCNIS, Geometric Advanced Video Enhanced Location Systems (GAVELS), Mobile Optical Tracking Systems, Automated Rigging Kit Tool, GPS Modernization, High-speed Digital Recording System, and OASIS Integration.</p> <p>FY 2012 Plans: FY12 Planned Programs: The individual accomplished technology projects within all the domains as described in ATEC Regulation 70-15, Table 1, 22 Mar 06, include but are not limited to: DoD Information Assurance Certification and Accreditation Process (DIACAP) for many OTC Modeling, Simulation, and Instrumentation Systems, Sustainment and Operations of all OTC Technology Capabilities and associated data management, Test Technology Integration ? OASIS, Test Technology Execution Capabilities, Network Control Systems/Battle Command Simulation, and Instrumentation, RTCA, ExCIS FSA, ISR Simulation and Instrumentation - IMASE, Automated Rigging Kit Analysis Tool Sustainment (ARKAT), and Performance Instrumentation Systems, etc.</p>					
<p>Title: Mobile Optical Tracking System - Congressional Add</p> <p align="right">Articles:</p>			0.960 0	-	-

UNCLASSIFIED

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
Description: Enhancement of Mobile Optical Tracking System (MOTS) with the inclusion of All Sky Imaging capability. Contract awarded 4th quarter FY 10. FY 2010 Accomplishments: Congressional increase for HQ Operational Test Command FTD-MTD to develop Mobile Optical Tracking System (MOTS). MOTS is a tracking system that will provide the Time Space Position Information (TSPI) required to analyze the end game of engagements by systems such as the Counter Rocket Artillery Mortar Systems.			
Accomplishments/Planned Programs Subtotals		28.949	22.016
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.			