

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY

6 - Management support

PE NUMBER AND TITLE

0605601A - ARMY TEST RANGES AND FACILITIES

COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
Total Program Element (PE) Cost		129665	182885	181114	198690	216728	210750	215438
F30	ARMY TEST RANGES & FACILITIES	129665	176188	181114	198690	216728	210750	215438
F38	BIG CROW SUPPORT	0	6697	0	0	0	0	0

A. Mission Description and Budget Item Justification: This program element (PE) provides the institutional funding required to operate the developmental test activities required by Department of Defense (DoD), Department of the Army (DA) weapons systems developers and Research, Development, and Engineering Centers. This funding does not pay for program specific test costs. All functions and resources associated with this PE are managed by the U.S. Army Developmental Test Command (DTC), a subordinate command of the Army Test and Evaluation Command (ATEC). This PE provides resources to operate four Army Major Range and Test Facility Bases (MRTFB):

- White Sands Missile Range (WSMR), NM (including the Electronic Proving Ground (EPG), Fort Huachuca, Arizona)
- Aberdeen Test Center (ATC), Aberdeen Proving Ground (APG), MD
- Yuma Proving Ground (YPG), AZ (to include management of Army natural environmental testing at Cold Regions Test Center, Fort Greely and Fort Wainwright, AK, and Tropic Regions Test Center at Schofield Barracks, HI).

This PE also provides the resources to operate the Army's developmental test capability at: Aviation Technical Test Center, Fort Rucker, AL; and Redstone Technical Test Center, Redstone Arsenal, AL.

It also provides the resources for test planning and safety verification/confirmation at HQ, DTC located at APG, MD. Developmental test capabilities at the test range 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, and quality of materiel in development and in production.

This PE finances test range operating costs not appropriately billed to test customers, replacement of test equipment, and test revitalization/upgrade projects to maintain current testing capabilities and improvements to safety, environmental protection, efficiency of test operations, and technological advances. This PE does not finance reimbursable costs directly identified to a user of these ranges. Direct costs are borne by materiel developers in accordance with DoD Directive 3200.11 and DoD Financial Management Regulation 7000.14R. This PE sustains the developmental T&E capability required to support all elements of Army Transformation, as well as Joint Service or Other Service systems, hardware, and technologies.

Increased funding reflects an Army leadership decision supporting Congressional and OSD interest in implementing the Defense Science Board recommendations to increase developmental testing to improve overall system performance in operational testing and in fielding. Historic underfunding of the Army test ranges has resulted in insufficient developmental testing, with the ultimate result being system failures and increased acquisition cost.

The PE also includes funding for the Big Crow Program Office to sustain test and evaluation capabilities to support essential testing in electronic

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warfare, electronic countermeasures, electronic warfare equipment, missiles and other small object tracking, and telemetry.

<u>B. Program Change Summary</u>	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	130727	174603	172114
Current Budget (FY 2005 PB)	129665	182885	181114
Total Adjustments	-1062	8282	9000
Congressional program reductions		-1574	
Congressional rescissions			
Congressional increases		10600	
Reprogrammings	-1062	-744	
SBIR/STTR Transfer			
Adjustments to Budget Years			9000

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COST (In Thousands)			FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
F30	ARMY TEST RANGES & FACILITIES		129665	176188	181114	198690	216728	210750	215438
<p>A. Mission Description and Budget Item Justification:Increased funding, beginning in FY 2004 reflects an Army leadership decision supporting Congressional and OSD interest in implementing the Defense Science Board recommendations to increase developmental testing to improve overall system performance in operational testing and in fielding. Historic underfunding of the Army test ranges has resulted in insufficient developmental testing, with the ultimate result being system failures and increased acquisition cost. This program element (PE) provides the institutional funding required to operate the developmental test activities required by Department of Defense (DoD), Department of the Army (DA) weapons systems developers and Research, Development, and Engineering Centers. This funding does not pay for program specific test costs. All functions and resources associated with this PE are managed by the U.S. Army Developmental Test Command (DTC), a subordinate command of the Army Test and Evaluation Command (ATEC). This PE provides resources to operate four Army Major Range and Test Facility Bases (MRTFBs): White Sands Missile Range (WSMR), NM; Aberdeen Test Center (ATC), Aberdeen Proving Ground (APG), MD; Yuma Proving Ground (YPG), AZ (to include management of Army natural environmental testing at Cold Regions Test Center, Fort Greely and Fort Wainwright, AK, and Tropic Regions Test Center at Schofield Barracks, HI); and Electronic Proving Ground (EPG), Fort Huachuca, AZ.</p> <p>This PE also provides the resources to operate the Army’s developmental test capability at: Aviation Technical Test Center, Fort Rucker, AL and Redstone Technical Test Center, Redstone Arsenal, AL.</p> <p>It also provides the funds for test planning and safety verification at HQ, DTC at APG, MD. Developmental test capabilities at the 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, and quality of materiel in development and in production.</p> <p>Two new and growing missions this PE finances are support of urgent fielding of equipment to the warfighter and support of warfighter training requirements at DTC ranges. Support in FY03 to the Global War on Terrorism included testing and safety documentation support to the Up-Armored High Mobility Multi-Wheeled Vehicle, first deployment of the Stryker Brigade to Iraq, and support for the High Mobility Artillery Rocket System Rapid Force Projection Initiative and the M26 Taser programs. This PE finances indirect test range operating costs, replacement of test equipment, and test revitalization/upgrade projects to maintain current testing capabilities and improvements to safety, environmental protection, efficiency of test operations, and technological advances. Direct costs are borne by materiel developers in accordance with DoD Directive 3200.11 and DoD Financial Management Regulation 7000.14R. While the current funding levels will support a developmental test capability, they are nowhere near the levels required for compliance with the FY 2003 National Defense Authorization Act requirement to charge customers for direct costs only. This PE sustains the developmental T&E capability required to support transformation from the current to the future force as well as Joint Service or Other Service systems, hardware, and technologies.</p> <p>Unclassified systems scheduled for developmental testing that require DTC’s test capabilities encompass the entire spectrum of transformation weapon systems to include the Future Combat Systems (FCS) and its Core systems (Distributed Common Ground System, Joint Tactical Radio System, Warfighter</p>									

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PROJECT

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Information Network-Tactical); Unit of Action Complementary systems (e.g. Excalibur, Family of Medium Tactical Vehicles); and Unit of Employment and Above Complementary systems (e.g. UH-60 Black Hawk, High Mobility Artillery Rocket System, Army Tactical Missile System).
Test facilities funded through this PE include: automotive test courses; accelerated corrosion test facility; lift and tie down facility; desert and dust mobility test areas; vibration facility; firing ranges for small arms, artillery, tank rounds and small missiles; live fire evasive target; armor/anti-armor depleted uranium containment facility; climatic test facilities; mine/countermine/demolitions complex; an electronic countermeasures vulnerability test facility; unmanned aerial vehicle test facility; electro-magnetic interference/electro-magnetic; systems interoperability and computer software testing facility; electronic realistic battlefield environmental facility; electro-optical systems test facility; inertial guidance test facilities; full spectrum nuclear effects facility; rocket motor static test facility; and lightening effects test facility. Army test capabilities are not duplicated within DoD.

<u>Accomplishments/Planned Program</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Mission Support. Funds: test equipment maintenance; test facility maintenance; administrative supplies; tools; software; spare parts; test support vehicle maintenance; host support; TDY/training of civilian and contractor personnel; utilities; communications; and GSA vehicles. In FY03 DTC supported the first deployment of the Stryker Brigade to Iraq and also the Up-Armored HMMWV program in response to an urgent need from the Warfighter. DTC also supported urgent material release requirements to support the Global War on Terrorism. Unclassified systems scheduled for future developmental testing that require DTC's test capabilities encompass the entire spectrum of future weapons systems to include the Future Combat Systems (FCS) and its Core systems (Distributed Common Ground System, Joint Tactical Radio System, Warfighter Information Network-Tactical); Unit of Action Complementary systems (e.g. Excalibur, Family of Medium Tactical Vehicles); Unit of Employment and Above Complementary systems (e.g. UH-60 Black Hawk, High Mobility Artillery Rocket System, Army Tactical Missile System); Joint Service and other Air Force/Navy programs.	19937	28232	31874
T&E Civilian Pay. Increased funding beginning in FY 2004 reflects Army leaderships recognition of this PE being historically under funded as well as the growth in the Army's RD&A budget lines driving increased workload at DTC test ranges. This funding supports 40 percent of the civilian labor costs for Program Budget Guidance (PBG) authorizations. The balance is test customer funded. The funding increase reflects Army restoration of PBG authorizations based on the exemption of the Test and Evaluation functions from private sector performance due to the risk to national security. These authorizations were requested and approved to restore and maintain core T&E skills as part of the Government civilian workforce.	66457	86524	101902

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Accomplishments/Planned Program (continued)	FY 2003	FY 2004	FY 2005

37183

10155

0

0

181114

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PROJECT

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COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
F38	BIG CROW SUPPORT	0	6697	0	0	0	0	0

A. Mission Description and Budget Item Justification: Provide funding for Big Crow Program Office to sustain test and evaluation capabilities to support essential testing in electronic warfare, electronic countermeasures, electronic warfare equipment, missiles and other small object tracking, and telemetry. The funding provided is specifically for institutional operations and maintenance costs of maintaining baseline capabilities of two KC-135 aircraft, the Big Crow electronic equipment, and their associated ground vans that support critical test and evaluation requirements.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Provide technical contract support, reimbursement for utilities and rents, systems improvements and modernization and flying hour cost and aircrew maintenance/qualifications.	0	6498	0
Small Business Innovative Research/Small Business Technology Transfer Programs	0	199	0
Totals	0	6697	0