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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										Cost To	Total Cost
2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)	PE 0603004A: Weapons and Munitions Advanced Technology										Complete	Total
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016			
Total Program Element	92.638	64.438	77.077	-	77.077	82.110	89.766	94.727	97.861	Continuing	Continuing	
232: ADVANCED LETHALITY & SURVIVABILITY DEMO	29.511	43.573	54.210	-	54.210	54.941	62.281	65.856	68.452	Continuing	Continuing	
43A: ADV WEAPONRY TECH DEMO	33.687	-	-	-	-	-	-	-	-	Continuing	Continuing	
L94: ELECTRIC GUN SYS DEMO	6.053	-	-	-	-	-	-	-	-	Continuing	Continuing	
L96: HIGH ENERGY LASER TECHNOLOGY DEMO	22.414	19.868	18.408	-	18.408	23.201	23.214	24.103	24.641	Continuing	Continuing	
L97: SMOKE AND OBSCURANTS ADVANCED TECHNOLOGY	0.973	0.997	4.459	-	4.459	3.968	4.271	4.768	4.768	Continuing	Continuing	

Note

FY12 funding increase for Advanced Lethality and Survivability Demos.

A. Mission Description and Budget Item Justification

The objective of this program element (PE) is to mature and demonstrate advanced lethal and non-lethal weapons and munitions technologies to increase battlefield lethality. This PE supports the maturation and demonstration of enabling components and subsystems which provide: scalable lethal and non-lethal effects (project 232); **key subsystems that enable an electromagnetic (EM) gun weapon system demonstrator (project L94)**; a tactical high energy laser weapon system demonstrator (project L96); and smoke and obscurant technologies to enhance platform and personnel survivability (project L97). Project 43A funds congressional special interest items.

Work in this PE is related to, and fully coordinated with, PE 0602624A (Weapons and Munitions Technology), PE 0602618A (Ballistics Technology), PE 0603005A (Combat Vehicle and Automotive Advanced Technology), PE 0602307A (Advanced Weapons Technology), PE 0602120A (Sensors and Electronic Survivability), PE 0602622A (Chemical, Smoke, and Equipment Defeating Technology), and PE 0603313A (Missile and Rocket Advanced Technology).

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

Work in this PE is performed by the Armament Research, Development, and Engineering Center (ARDEC), Picatinny Arsenal, NJ, in cooperation with the Army Research Laboratory (ARL), Aberdeen Proving Ground, MD; the Tank Automotive Research, Development, and Engineering Center (TARDEC), Warren, MI; the Aviation and Missile Research, Development, Engineering Center (AMRDEC), Huntsville, AL; Edgewood Chemical Biological Center (ECBC), Edgewood, MD; and the U.S. Army Space and Missile Defense Center (SMDC), Huntsville, AL.

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