

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006			
BUDGET ACTIVITY		PE NUMBER AND TITLE								
4 - Advanced Component Development and Prototypes		0603779A - Environmental Quality Technology Dem/Val								
COST (In Thousands)		FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost		43637	35255	5166	5171	5174	5174	5174	0	161432
035	NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE	4608	4915	5166	5171	5174	5174	5174	0	44531
04E	ENVIRONMENTAL RESTORATION TECH VALIDATION	3088	0	0	0	0	0	0	0	12110
04F	COMMERCIALIZATION OF TECH TO LOWER DEFENSE COSTS	2007	0	0	0	0	0	0	0	5016
04I	TECHNOLOGIES TO REDUCE NON-HAZARDOUS WASTE	2108	2563	0	0	0	0	0	0	7234
04J	ENVIRONMENTAL COMPLIANCE TECHNOLOGY VALIDATION	1262	176	0	0	0	0	0	0	2844
04K	WASTE MINIMIZATION AND POLLUTION PREVENTION	957	0	0	0	0	0	0	0	3991
E12	TRANSPORTABLE DETONATION CHAMBER VALIDATION	4025	3943	0	0	0	0	0	0	15819
E14	ENVIRONMENTAL SECURITY INITIATIVE (CA)	0	986	0	0	0	0	0	0	4178
E15	ARSENIC REMOVAL (CA)	1916	1380	0	0	0	0	0	0	4892
E16	ABERDEEN PG ASBESTOS CONVERSION FACILITY (CA)	1149	0	0	0	0	0	0	0	2464
E17	ARMY ENVIRONMENTAL SOLUTIONS PROGRAM (CA)	2396	0	0	0	0	0	0	0	4744
E19	SUSTAINABLE INSTALLATIONS INITIATIVE (CA)	1629	2070	0	0	0	0	0	0	4638
E22	ENVIRONMENTAL MANAGEMENT SYSTEM DEMONSTRATION	957	0	0	0	0	0	0	0	957
E23	ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PILOT IN DOD	1437	0	0	0	0	0	0	0	1437
E24	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PRG	957	1971	0	0	0	0	0	0	2928
E28	WELLHEAD TREATMT OF PERCHLORATE CONTAMINATED WELL	2396	0	0	0	0	0	0	0	2396

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E34	NDCEE JOINT SERVICES INITIATIVE	6516	0	0	0	0	0	0	0	6516
EN1	CASTING EMISSION REDUCTION PROGRAM (CERP)	3354	4337	0	0	0	0	0	0	17753
EN4	PLASMA ENERGY PYROLYSIS SYSTEM (PEPS)	0	1380	0	0	0	0	0	0	1380
EN7	VANADIUM TECHNOLOGY PROGRAM	2875	1479	0	0	0	0	0	0	5549
EP1	ENVIRONMENTAL QUALITY TECH DEM/VAL (CA)	0	10055	0	0	0	0	0	0	10055
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> There is a broad application potential for environmental quality technology (EQT) to be applied to multiple Army weapon systems and installations. However, technology must be validated (total ownership cost and performance data identified) before potential users will consider exploiting it. Therefore, this program element includes projects focused on validating the general military utility or cost reduction potential of technology when applied to different types of infrastructure, military equipment or techniques. It may include validations and proof-of-principle demonstrations in field exercises to evaluate upgrades or provide new operational capabilities. The validation of technologies will be in as realistic an operating environment as possible to assess performance or cost reduction potential. EQT demonstration/validation is systemic; i.e., applies to a class of systems (e.g., tanks or aircraft) or to a Department of Army-wide, multiple site/installation problem (e.g., unexploded ordnance detection and discrimination). This program will address, and eventually resource, programs in each of the environmental quality technology pillars (restoration, conservation, compliance, and pollution prevention). Work must be endorsed by potential users and supported by a state-of-the-art assessment (i.e., technology is well-in-hand).</p>										

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February 2006

## BUDGET ACTIVITY

## PE NUMBER AND TITLE

**4 - Advanced Component Development and Prototypes**

**0603779A - Environmental Quality Technology Dem/Val**

	FY 2005	FY 2006	FY 2007
<b><u>B. Program Change Summary</u></b>			
Previous President's Budget (FY 2006)	41651	5166	5088
Current BES/President's Budget (FY 2007)	43637	35255	5166
Total Adjustments	1986	30089	78
Congressional Program Reductions		-154	
Congressional Rescissions		-357	
Congressional Increases		30600	
Reprogrammings	1986		
SBIR/STTR Transfer			
Adjustments to Budget Years			78

### Change Summary Explanation:

FY 2005 - There was a reprogram of a congressional add (for Commercialization of Technologies to Lower Defense Costs) from program element 0603728A, Environmental Quality Technology Demonstration, into this program element for proper execution (+\$2,007,000) and reprogram of funds (-\$21,000) to higher priority requirements.

FY 2006 - There were 14 congressional interest projects (+\$30,600,000) added (Solid Waste Sustainment, Plasma Energy Pyrolysis System, Transportable Detonation Chamber, Aberdeen Proving Ground Asbestos Conversion Facility, Sustainable Installations, Environmental Management System (EMS) Pilot, Environmental Security Initiative, Casting Emission Reduction Program (CERP), Vanadium Technology Program, and Environmental Quality Technology Dem/Val Adds (which includes the Mission Critical Environment, Safety and Occupational Health (ESOH) Technology Transition, Battlefield Plastic Biodiesel, No Rinse Decontamination of Battlefield Equipment, Rapid Response Biochemical (Decontamination Green) and Magna Water District Perchlorate and Arsenic Treatment)).

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R2a Exhibit)</b>								<b>February 2006</b>	
<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>				<b>PE NUMBER AND TITLE</b> <b>0603779A - Environmental Quality Technology Dem/Val</b>				<b>PROJECT</b> <b>035</b>	
COST (In Thousands)	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
035      NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE	4608	4915	5166	5171	5174	5174	5174	0	44531
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The National Defense Center for Environmental Excellence (NDCEE) was established by Congress in 1990 with a directive to "serve as a national leadership organization to address high priority environmental problems for the Department of Defense (DoD), other government organizations, and the industrial community." The NDCEE Program is a national resource for developing and disseminating advanced environmental technologies. The NDCEE is used to demonstrate environmentally acceptable technology to industry; validate new technology prior to transferring that technology; and assist in the training of potential users as part of that technology transfer process. The NDCEE is a DoD resource for environmental quality management and technology validation. This program is managed by the Army on behalf of the Office of the Assistant Deputy Under Secretary of Defense for Environment (ADUSD-E).</p>									
<b><u>Accomplishments/Planned Program</u></b>						<b><u>FY 2005</u></b>	<b><u>FY 2006</u></b>	<b><u>FY 2007</u></b>	
Management and operations of the NDCEE by the prime contractor.						1200	1200	1200	
Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis.						400	500	500	
Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs.						2608	2815	3066	
NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.						400	400	400	
Total						4608	4915	5166	
<p><b><u>C. Acquisition Strategy</u></b> The NDCEE is a national asset focused on DoD applications that include technology transfer to appropriate DoD organizations. The NDCEE fosters an outreach program to describe its products and capabilities that include publication of results and participation in professional meetings, symposia, conferences, and appropriate coordination with industry. The management strategy for the NDCEE centers on a DoD Executive Advisory Board (EAB) chaired by the DoD NDCEE Executive Agent on behalf of the ADUSD (ESOH) and composed of senior DoD leadership to oversee NDCEE operations. The EAB is supported by an EAB Working Group (EABWG) that includes staff members from each of the offices represented on the EAB. The EABWG coordinates all NDCEE activities and reports back to the EAB Principals. The EABWG is, in turn, supported by a Technical Working Group (TWG) that addresses the details of NDCEE program execution. The contracting strategy of the NDCEE is based on using an NDCEE Contracting Officer's Representative to validate all the contractual portions of the NDCEE and by technical monitors (TM) to oversee the technical aspects of each contracted task. A prime contractor operates NDCEE test facility(s) to validate environmentally compatible technologies on a representative "shop floor". The NDCEE accounts for and conducts work for: (1) direct funded Army tasks; (2) reimbursable tasks from within DoD and from other Government agencies; and (3) Congressionally directed and funded tasks.</p>									

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>4 - Advanced Component Development and Prototypes</b>			<b>0603779A - Environmental Quality Technology Dem/Val</b>							<b>035</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Not applicable.			0	0		0		0		0	0	0
Subtotal:			0	0		0		0		0	0	0
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Technical Data	C; CPFF	Concurrent Technologies Corporation (CTC), Johnstown, PA	3500	1600	2Q	1700	2Q	1700	2Q	Continue	Continue	Continue
Subtotal:			3500	1600		1700		1700		Continue	Continue	Continue
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Development Testing	C; CPFF	Concurrent Technologies Corp.	2466	0		0		0		0	2466	2466
Development Testing	C; CPFF	Concurrent Technologies Corp.	5619	2608	2Q	2815	2Q	3066	2Q	Continue	Continue	Continue
Subtotal:			8085	2608		2815		3066		Continue	Continue	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Allotment	Office of the Assistant	2387	400	2Q	400	2Q	400	2Q	Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS (R3)									February 2006		
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes			PE NUMBER AND TITLE 0603779A - Environmental Quality Technology Dem/Val							PROJECT 035	
		Sec Army (Installations and Environment)									
Subtotal:			2387	400		400		400		Continue	Continue
Project Total Cost:			13972	4608		4915		5166		Continue	Continue