

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE											DATE: February 2011
2040: Research, Development, Test & Evaluation, Army	PE 0803779A: Environmental Quality Technology - Dem/Val											
BA 4: Advanced Component Development & Prototypes (ACD&P)												
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	20,203	4,695	4,946	-	4,946	5,108	4,786	4,683	4,684	Continuing	Continuing	
035: NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE	8,573	4,695	4,520	-	4,520	4,668	4,352	4,683	4,331	Continuing	Continuing	
04E: ENVIRONMENTAL RESTORATION TECH VALIDATION	-	-	0.426	-	0.426	0.440	0.434	-	0.353	Continuing	Continuing	
E23: ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PLOT IN DOD	1,989	-	-	-	-	-	-	-	-	0.000	1,989	
EP1: ENVIRONMENTAL QUALITY TECH DEMVAL (CA)	9,641	-	-	-	-	-	-	-	-	0.000	9,641	

Note

A. Mission Description and Budget Item Justification

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 demonstrated and 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 heading for user to implement").

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE					PROJECT				
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603779A: Environmental Quality Technology - Dem/Val					EP1: ENVIRONMENTAL QUALITY TECH DEMVAL (CA)				
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
EP1: ENVIRONMENTAL QUALITY TECH DEMVAL (CA)	9.641	-	-	-	-	-	-	-	-	0.000	9.641
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Environmental Quality Technology Dem/Val Adds (CA) - Congressional directed Army Environmental quality technology projects that address critical requirements, reduce out-year costs, and support long-term sustainability. This includes compliance, conservation, restoration and installation pollution prevention technologies.

Congressional directed Environmental Quality Technology (EQT) projects for FY 2010 appropriation totaling \$13.7 million: Cadmium Emissions Reduction \$1.000 million; Vanadium Technology \$2.400 million; Environmental Management Information System (EMIS) \$2.000 million (should be in APE 643779E23), and Program increase for National Defense Center for Energy and Environment (NDCEE) \$7.500 million (should be in APE 643779O35).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

Title:	FY 2010	FY 2011	FY 2012
Title: Renewable Energy Testing Center (RETC) - congressional interest project Description: Funding is provided for the following effort	Articles: 0.800 0	-	-
FY 2010 Accomplishments: Renewable Energy Testing Center (RETC)-Provide metrics on robustness, safety, energy efficiency and environmental effectiveness.			
Title: Cadmium Emissions Reduction - Letterkenny Army Depot Description: Funding is provided for the following effort	Articles: 1.000 0	-	-
FY 2010 Accomplishments: Cadmium Emissions Reduction - Letterkenny Army Depot - congressional interest project			
Title: Vanadium Technology Program - congressional interest project Description: Funding is provided for the following effort	Articles: 2.400 0	-	-
FY 2010 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0603779A: Environmental Quality Technology - DemVal	EP1: ENVIRONMENTAL QUALITY TECH DEMVAL (CA)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
Vanadium Technology Program			
Title: National Defense Center for Energy and Environment(NDCEE)	Articles:	3.141	-
		0	-
Description: Funding is provided for the following effort			
FY 2010 Accomplishments:			
National Defense Center for Energy and Environment (NDCEE) - Program Increase (should be reported in APE 643779035)			
Title: Environmental Management System (EMS) Pilot in DOD - congressional interest project	Articles:	2.300	-
		0	-
Description: Funding is provided for the following effort			
FY 2010 Accomplishments:			
Environmental Management System (EMS) Pilot in DOD - congressional interest project (should be reported in APE 643779E23)			
Accomplishments/Planned Programs Subtotals		9.641	-
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Congressional interest projects			
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

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0603779A: Environmental Quality	EP1: ENVIRONMENTAL QUALITY TECH
BA 4: Advanced Component Development & Prototypes (ACD&P)	Technology - Dem/Val	DEMVAL (CA)

Test and Evaluation (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date				
Demonstration/Validation of Cadmium Emissions Reduction	Various	Mountain Research, LLC; Altoona, PA	20.110	-		-		-		-	Continuing	Continuing	0.000
Demonstration/Validation of Vanadium Technology	Various	ATI; Pitsburgh, PA	-	-		-		-		-	Continuing	Continuing	0.000
Demonstration/Validation of Environmental Management Information System project.	Various	Concurrent Technologies Corp.; Johnstown, PA	-	-		-		-		-	Continuing	Continuing	0.000
Demonstration/Validation of Renewable Energy Testing Center	Various	Technikon, LLC; McClellan Park, CA	-	-		-		-		-	Continuing	Continuing	0.000
Development Testing at the National Defense Center for Energy and Environment.	Various	Concurrent Technologies Corp.; Johnstown, PA	-	-		-		-		-	Continuing	Continuing	0.000
Subtotal			20.110	-		-		-		-			0.000
Project Cost Totals			Total Prior Years Cost	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract			
			20.110	-	-	-	-	-	-	0.000			

Remarks