

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Army **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	3.622	5.023	4.631	-	4.631	4.755	4.562	4.197	4.210	Continuing	Continuing
035: <i>NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE</i>	3.622	4.591	4.232	-	4.232	4.324	4.562	3.880	3.899	Continuing	Continuing
04E: <i>ENVIRONMENTAL RESTORATION TECH VALIDATION</i>	-	0.432	0.399	-	0.399	0.431	-	0.317	0.311	Continuing	Continuing

**Note**

FY 2013 Funds \$.477M realigned to higher priority requirements.

**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**

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0603779A: Environmental Quality Technology - Dem/Val			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.695	4.946	5.108	-	5.108
Current President's Budget	3.622	5.023	4.631	-	4.631
Total Adjustments	-1.073	0.077	-0.477	-	-0.477
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.905	-			
• SBIR/STTR Transfer	-0.140	-			
• Adjustments to Budget Years	-	-	-0.477	-	-0.477
• Other Adjustments 1	-0.028	0.077	-	-	-

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603779A: Environmental Quality Technology - Dem/Val				PROJECT 035: NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
035: NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE- NDCEE	3.622	4.591	4.232	-	4.232	4.324	4.562	3.880	3.899	Continuing	Continuing
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**

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). In May 2008, the program name was redesignated from the National Defense for Environmental Excellence to the National Defense Center for Energy and Environment to ensure that the Center's mission recognizes and addresses the strategic interdependence of energy and environmental technology requirements within an overall sustainability framework in support of our installations, weapons systems and war fighters. This name change also directly supports the DoD's proactive implementation of Executive Order 13423, "Strengthening Federal Environmental, Energy and Transportation Management."

Our broadly encompassing and growing mobile, personal and stationary advanced energy technology requirements include infrastructure, alternative and synthetic fuels, surety, renewables, storage, distribution, advanced power, micro-grids, transportation, systems integration and others. Further, to train as we fight, validated energy and environmental technologies need to be available, and implemented at our power projection bases and training areas. The NDCEE will continue to research, demonstrate and transfer these technologies supporting our integrated Environment, Safety and Occupational Health (ESOH) and energy objectives with full consideration of the triple bottom line of mission, environment and community.

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

	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> Management and operations of the NDCEE by the prime contractor.	1.325	1.300	1.468
<b>Articles:</b>	0	0	
<b>Description:</b> Management and operations of the NDCEE by the prime contractor.			
<b>FY 2011 Accomplishments:</b> Management and operations of the NDCEE by the prime contractor.			
<b>FY 2012 Plans:</b>			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Army			<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>		<b>PROJECT</b> 035: <i>NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>			<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Management and operations of the NDCEE by the prime contractor. <b>FY 2013 Plans:</b> Management and operations of the NDCEE by the prime contractor.					
<b>Title:</b> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <b>Articles:</b> <b>Description:</b> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <b>FY 2011 Accomplishments:</b> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <b>FY 2012 Plans:</b> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <b>FY 2013 Plans:</b> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis.			0.500 0	0.500 0	0.500
<b>Title:</b> Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <b>Articles:</b> <b>Description:</b> Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <b>FY 2011 Accomplishments:</b> Conducted demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <b>FY 2012 Plans:</b> Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <b>FY 2013 Plans:</b>			1.530 0	2.556 0	1.859

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Army		<b>DATE:</b> February 2012	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>	<b>PROJECT</b> 035: <i>NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2011</b>	<b>FY 2012</b>
Will conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs.			
<b>Title:</b> NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.  <b>Articles:</b>  <b>Description:</b> NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.  <b>FY 2011 Accomplishments:</b> NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.  <b>FY 2012 Plans:</b> NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.  <b>FY 2013 Plans:</b> NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.		0.267 0	0.235 0
<b>Accomplishments/Planned Programs Subtotals</b>		3.622	4.591
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>D. Acquisition Strategy</b>			
<p>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 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</p>			

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>	<b>PROJECT</b> 035: <i>NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE</i>
"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.		
<b>E. Performance Metrics</b> 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**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603779A: Environmental Quality Technology - Dem/Val				PROJECT 035: NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE				
Management Services (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	MIPR	RDECOM:Aberdeen, MD	21.847	0.508		0.405		-		0.405	Continuing	Continuing	Continuing
Subtotal			21.847	0.508		0.405		-		0.405			
Product Development (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
To Be Determined	TBD	To Be Determined:To Be Determined	8.797	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			8.797	-		-		-		-			
Support (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Data	Various	Concurrent Technologies Corporation (CTC):Johnstown, PA	19.367	1.780		1.968		-		1.968	Continuing	Continuing	Continuing
Subtotal			19.367	1.780		1.968		-		1.968			
Test and Evaluation (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Testing and Evaluation	Various	Concurrent Technologies Corp.:Johnstown, PA	21.889	2.303		1.859		-		1.859	Continuing	Continuing	Continuing
Subtotal			21.889	2.303		1.859		-		1.859			

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603779A: Environmental Quality Technology - Dem/Val				PROJECT 035: NATIONAL DEFENSE CNTR FOR ENVIRO EXCELLENCE-NDCEE			
	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	71.900	4.591		4.232		-		4.232			

**Remarks**



**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Army									<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>				<b>PROJECT</b> 04E: <i>ENVIRONMENTAL RESTORATION TECH VALIDATION</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
04E: <i>ENVIRONMENTAL RESTORATION TECH VALIDATION</i>	-	0.432	0.399	-	0.399	0.431	-	0.317	0.311	Continuing	Continuing
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**  
 Environmental Information Technology Management (EITM) includes support for Knowledge Based Corporate Reporting system (KBCRS) and Defense Environmental Network Information Exchange (DENIX). This new request for research, development, test and evaluation (RDTE) is to enhance KBCRS to a net-centric all services transactional system of record and reporting tool set. Also includes EITM upgrades to incorporate new security and other requirements.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> Environmental Restoration Technology Validation  <div style="text-align: right;"><b>Articles:</b></div> <b>Description:</b> Funding is provided for the following effort  <b>FY 2012 Plans:</b> To provide system upgrades to support users with reporting requirements, for example the Annual Report to Congress.  <b>FY 2013 Plans:</b> To provide system upgrades to support users with reporting requirements, for example the Annual Report to Congress.	-	0.432 0	0.399
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.432	0.399

**C. Other Program Funding Summary (\$ in Millions)**  
 N/A

**D. Acquisition Strategy**  
 The U.S. Army's Environmental Quality Technology (EQT) program provides new or innovative methods, equipment, materials, and/or protocols to reduce the total cost of Army operations and/or allow training operations to continue with minimum adverse impact on the environment that result from base operations and weapons system maintenance/support activities. The restoration demonstration/validation portion of EQT is designed to support Army-wide stewardship of its lands and facilities by focusing on the transfer of potential technological solutions to restoration problems on Army installations and to industry to support restoration of Army lands to their former or redesignated use. The restoration EQT demonstration/validation program goal is to support installation needs through exploitation of technology without compromising readiness or training. It accomplishes this goal in two steps. First, Technology Teams identify, prioritize, and justify technological solutions to Army high-priority environmental quality technology restoration requirements. Second, based on Department of the Army and Office of the Secretary of Defense guidance,

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Army		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603779A: <i>Environmental Quality Technology - Dem/Val</i>	<b>PROJECT</b> 04E: <i>ENVIRONMENTAL RESTORATION TECH VALIDATION</i>
<p>funding authority is sought through the Army's planning, programming, and budgeting process. The EQT management oversight process consists of an Environmental Technology Technical Council (ETTC; a program management council), an Environmental Technology Integrated Process Team, (a working group supporting the ETTC) and, in this case, a Restoration Technology Team (composed of experts in restoration technology and in Army user needs). This program is leveraging resources and knowledge gained from the Strategic Environmental Research and Development Program (SERDP), the Environmental Security Technology Certification Program (ESTCP) and the National Defense Center for Environmental Excellence (NDCEE).</p> <p><b><u>E. Performance Metrics</u></b></p> <p>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.</p>		