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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603779A / Environmental Quality Technology - Dem/Val							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	4.060	2.631	7.830	-	7.830	9.988	8.938	7.383	10.139	Continuing	Continuing
035: National Defense Cntr For Enviro Excellence	-	3.744	2.200	2.579	-	2.579	4.145	4.256	4.282	4.315	Continuing	Continuing
04E: Environmental Restoration Tech Validation	-	0.316	0.431	-	-	-	-	-	-	-	-	0.747
E21: POLLUTION PREVENTION TECHNOLOGY DEM/VAL	-	-	-	5.251	-	5.251	5.843	4.682	3.101	5.824	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

FY13 adjustments attributed to Congressional General Reductions (-5 thousand); SBIR/STTR transfers (-132 thousand); Sequestration reductions (-433 thousand) and internal Army reprogrammings (-1 thousand).

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. 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., vehicles 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 Army environmental quality technology pillars (military materials in the environment, sustainable ranges and lands, compliance, and pollution prevention). All 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").

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603779A / Environmental Quality Technology - Dem/Val			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	4.631	2.633	5.835	-	5.835
Current President's Budget	4.060	2.631	7.830	-	7.830
Total Adjustments	-0.571	-0.002	1.995	-	1.995
• Congressional General Reductions	-0.005	-0.002			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	-			
• SBIR/STTR Transfer	-0.132	-			
• Adjustments to Budget Years	-	-	1.995	-	1.995
• Other Adjustments	-0.433	-	-	-	-

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603779A / Environmental Quality Technology - Dem/Val				Project (Number/Name) 035 / National Defense Cntr For Enviro Excellence			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
035: National Defense Cntr For Enviro Excellence	-	3.744	2.200	2.579	-	2.579	4.145	4.256	4.282	4.315	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note Not applicable for this item.												
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. 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 installations. The NDCEE will continue to demonstrate, validate, and transfer these technologies supporting our integrated environment, safety, occupational health 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)									FY 2013	FY 2014	FY 2015	
Title: Management and operations of the NDCEE by the prime contractor.									1.299	0.330	0.386	
Articles:									-	-	-	
Description: Consists of the management and operation expenses required by the prime contractor to operate the NDCEE program.												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<i>FY 2013 Accomplishments:</i> Management and operations of the NDCEE by the prime contractor. <i>FY 2014 Plans:</i> Management and operations of the NDCEE by the prime contractor. <i>FY 2015 Plans:</i> Will consist of management and operations of the NDCEE by the prime contractor.					
<i>Title:</i> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <i>Articles:</i> <i>Description:</i> Funds the industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis by the NDCEE prime contractor. <i>FY 2013 Accomplishments:</i> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <i>FY 2014 Plans:</i> Industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis. <i>FY 2015 Plans:</i> Will fund industrial base integration, operation of the NDCEE environmental technology facility, and environmental information analysis.			0.442 -	0.250 -	0.293 -
<i>Title:</i> Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <i>Articles:</i> <i>Description:</i> Supports the demonstration and validation of environmental, safety, occupational health, and energy technologies that support the Army's Environmental Quality Technology mission. The objective is to determine if the technology is ready for implementation that will enhance military readiness and reduce production, operating, and/or disposal costs. <i>FY 2013 Accomplishments:</i> Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. <i>FY 2014 Plans:</i>			1.645 -	0.846 -	0.992 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs.			
FY 2015 Plans: Will conduct demonstration/validation of environmentally acceptable technologies that enhance military readiness and reduce production, operating, and/or disposal costs. Technologies to be demonstrated will consist of technologies selected by the NDCEE Technical Working Group and approved by the NDCEE Executive Advisory Board.			
Title: NDCEE Government program management during contract negotiations and during project formulation, execution, and technology transfer.		0.358	0.774
		-	-
Articles:			
Description: Funds the government program management office for the NDCEE. This consists of personnel assisting in contract negotiations and during project formulation, execution, and technology transfer.			
FY 2013 Accomplishments: NDCEE Government program management during contract negotiations and during project formulation, execution, and technology transfer.			
FY 2014 Plans: NDCEE Government program management during contract negotiations and execution and during project formulation, execution, and technology transfer.			
FY 2015 Plans: Will fund NDCEE Government program management during contract negotiations and during project formulation, execution, and technology transfer.			
Accomplishments/Planned Programs Subtotals		3.744	2.200
			2.579
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
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			

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Agent on behalf of the Assistant Deputy Under Secretary of Defense for Environment 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 Army's Environmental Quality Technology Program also assists in the formulation of suggested technology projects to be demonstrated within the NDCEE Program. 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 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) when applicable Congressionally directed and funded tasks. <u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0603779A / <i>Environmental Quality Technology - Dem/Val</i>						Project (Number/Name) 035 / <i>National Defense Cntr For Enviro Excellence</i>			
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	22.355	0.358	Aug 2013	0.774	Aug 2014	0.907	Aug 2015	-		0.907	Continuing	Continuing	Continuing
Subtotal			22.355	0.358		0.774		0.907		-		0.907	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	21.147	1.741	Mar 2013	0.580	May 2014	0.680	May 2015	-		0.680	Continuing	Continuing	Continuing
Subtotal			21.147	1.741		0.580		0.680		-		0.680	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	23.977	1.645	Mar 2013	0.846	Mar 2014	0.992	Mar 2015	-		0.992	Continuing	Continuing	Continuing
Subtotal			23.977	1.645		0.846		0.992		-		0.992	-	-	-

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	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	76.276	3.744		2.200		2.579		-		2.579	-	-	-
Remarks													

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603779A / Environmental Quality Technology - Dem/Val				Project (Number/Name) 04E / Environmental Restoration Tech Validation			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
04E: Environmental Restoration Tech Validation	-	0.316	0.431	-	-	-	-	-	-	-	-	0.747
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
The funding of Environmental Restoration Tech Validation will be transferred to 0205412A - Environmental Quality Technology - Operational System project EE6 titled Environmental Information Tech Modernization starting in FY15.												
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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Environmental Restoration Technology Validation Articles: Description: Conducts system enhancements as required to meet data management requirements for the Knowledge Based Corporate Reporting System and the Defense Environmental Network Information Exchange components. FY 2013 Accomplishments: Provide system upgrades to support users with reporting requirements, for example the Annual Report to Congress. FY 2014 Plans: To provide system upgrades to support users with reporting requirements, for example the Annual Report to Congress and Chemical Management Enterprise Information Integration.									0.316	0.431	-	
									-	-	-	
Accomplishments/Planned Programs Subtotals									0.316	0.431	-	

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Appropriation/Budget Activity 2040 / 4				R-1 Program Element (Number/Name) PE 0603779A / <i>Environmental Quality Technology - Dem/Val</i>				Project (Number/Name) 04E / <i>Environmental Restoration Tech Validation</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0205412A: <i>Environmental Information Tech Modernization (EE6)</i>	-	-	0.280	-	0.280	-	-	0.277	-	-	0.557
Remarks											
D. Acquisition Strategy											
The Environmental Information Technology Management (EITM) Program is an Office of the Secretary of Defense sponsored program that was assigned to the Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health as the Department of Defense (DoD) Executive Agent by the Under Secretary of Defense for Acquisition, Technology and Logistics in 2001. The DoD Directive 4715.1E defined EITM mission is to ensure efficient use of enterprise environment, safety and occupational health (ESOH) corporate information management processes by providing and sustaining requirement-driven ESOH corporate data management, Congressional-reporting and public outreach tools to the DoD, and other DoD stakeholders. Funding provided for this program will allow EITM to develop a Deputy Under Secretary of Defense for Installations and Environment directed Chemical Management Enterprise Information Integration capability that will allow Army net-centric hazardous material and ESOH 2.0 NetCentric data management capabilities per the Secretary of the Army Directive 2009-03 "Army Data Management" and DoD Directive 8320.2 "Data Sharing in a Net-Centric Department of Defense." Prior to funding being committed, Army and DoD environmental information technology stakeholders meet to determine which high priority EITM interface requirements need upgrades to incorporate new security and other information technology requirements.											
E. Performance Metrics											
N/A											

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Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0603779A / <i>Environmental Quality Technology - Dem/Val</i>				Project (Number/Name) 04E / <i>Environmental Restoration Tech Validation</i>					
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental testing and evaluation for required network interfaces.	C/FFP	Delta Resources : Arlington, VA	0.412	0.316	Mar 2013	0.431	Mar 2014	-		-		-	-	1.159	-
Subtotal			0.412	0.316		0.431		-		-		-	-	1.159	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.412	0.316		0.431		-		-		-	-	1.159	-
Remarks															

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603779A / Environmental Quality Technology - Dem/Val				Project (Number/Name) E21 / POLLUTION PREVENTION TECHNOLOGY DEM/VAL			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
E21: POLLUTION PREVENTION TECHNOLOGY DEM/VAL	-	-	-	5.251	-	5.251	5.843	4.682	3.101	5.824	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note FY 2015: \$5.251 million increase in reopened Project E21 is to fund the demonstration and validation of three Army Environmental Quality Technology programs.												
A. Mission Description and Budget Item Justification This project supports Advanced Component Development and Prototypes of environmental quality technologies developed within the Army Environmental Quality Technology program. The project increases operational sustainment and warfighter training capabilities by reducing soldier and worker health risks and environmental quality impacts that would otherwise result in restoration needs and compliance enforcement actions against installations while simultaneously increasing performance and standardization across the Army. The project expedites technology transition from the laboratory to operational use by demonstrating new materials and processes to fulfill the performance requirements outlined in Material Specifications, Depot Maintenance Work Requirements, Technical Manuals, Drawings and other technical data. Materials and processes demonstrated under this project are inherently more sustainable than the baseline with respect to environmental, safety and occupational health concerns, thereby reducing life cycle costs incurred by acquisition, industrial base and installation end users.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Environmental quality technology demonstration and validation: Toxic Metal Reduction in Surface Finishing of Army Weapon Systems Description: Increase readiness and environmental sustainability of Army depots and maintenance facilities by reducing or eliminating the use of hexavalent chromium, cadmium and associated toxic or carcinogenic materials used in surface finishing processes. FY 2015 Plans: Will conduct large-scale demonstrations of sustainable alternatives for mixed metal pretreatment, aluminum anodizing and hard chrome electroplating processes.									-	-	3.832	
Title: Environmental quality technology demonstration and validation: Airborne Lead Reduction from Army Weapon Systems Description: Sustain soldier training readiness and ensure compliance at Army installations by reducing or eliminating the use of lead compounds in rocket and missile propellants and primary explosives (primers/detonators/initiators).									-	-	0.930	

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B. Accomplishments/Planned Programs (\$ in Millions)							FY 2013	FY 2014	FY 2015		
FY 2015 Plans: Will demonstrate large-scale producibility of a promising lead-free primary explosive composition and will demonstrate a lead-free stab detonator in a relevant end item configuration.											
Title: Demonstration and validation of environmental quality technology project - SafePort Description: Demonstrate and validate rapid detection capability of the SafePort portable water analysis system for quantitation of lead, cadmium, and perchlorate as well as dispersed oil detection and pathogenic water organism detection in laboratory and field usage greatly reducing environmental compliance costs using verified techniques.							-	-	0.489		
FY 2015 Plans: Will fund the initial field demonstration and performance testing of perchlorate and heavy metal technologies along with data to evaluate comparative costs and compliance detection thresholds.											
Accomplishments/Planned Programs Subtotals							-	-	5.251		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• 0605857A: Pollution Prevention Tech Support (06I)	-	-	0.272	-	0.272	0.347	0.388	0.517	0.392	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The project ultimately transitions successfully demonstrated environmental quality technologies to Army acquisition, industrial base and installation end users. As part of the Army's Environmental Quality Technology Program, all technology efforts address a valid Army Environmental Requirements and Technology Assessments (AERTA) requirement. The Army's Environmental Technology Integrated Product Team conducts a thorough assessment and makes funding recommendations to senior Army environmental leadership. Efforts approved by senior Army environmental leadership receive Advanced Component Development and Prototype funding to fully demonstrate and validate the technology for transition to end users for follow on implementation.											
E. Performance Metrics											
N/A											

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Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0603779A / <i>Environmental Quality Technology - Dem/Val</i>				Project (Number/Name) E21 / <i>POLLUTION PREVENTION TECHNOLOGY DEM/VAL</i>				

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Conduct Demonstrations	MIPR	Varies : Varies	0.000	-		-		5.251	Oct 2014	-		5.251	Continuing	Continuing	Continuing
Subtotal			0.000	-		-		5.251		-		5.251	-	-	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		-		5.251		-		5.251	-	-	-

Remarks