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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>					PE 0605857A: <i>Environmental Quality Technology Mgmt Support</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	4.801	4.601	5.193	-	5.193	4.648	6.210	3.805	5.873	Continuing	Continuing
031: <i>Environmentally Sustainable Acquisition/Logistics</i>	-	3.591	3.441	4.279	-	4.279	3.294	4.920	2.632	4.679	Continuing	Continuing
06H: <i>Unexploded Ordnance Clearance Technology Support</i>	-	1.210	1.160	0.914	-	0.914	1.354	1.290	1.173	1.194	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

Headquarters Army Environmental System (HQAES) increase to support network security worthiness.

A. Mission Description and Budget Item Justification

This program resources environmental quality technology (EQT) related management support functions including support of research, development, test and evaluation required for EQT technical integration efforts at demonstration/validation test sites, technical information and activities, test facilities and general test instrumentation, and EQT requirement assessments. Funds required to support the management of technology transfer associated with technology demonstrated and validated as part of Army EQT projects are included in this program element. In addition, support to the Army weapon system acquisition community to address generic pollution prevention related requirements are included under the Environmentally Sustainable Acquisition/Logistics Program.

The Environmentally Sustainable Acquisition/Logistics project includes program management for developing acquisition strategies that both achieve system key performance parameters and sustain the environment without permanent and unacceptable change in the natural environment or human health from system concept refinement through disposal. It includes systematic consideration of environmental impacts, energy use, natural resources, installation impacts, economics, and quality of life. It provides support to the system acquisition community, e.g., program and project managers, to integrate environmental quality analyses into the system acquisition process. The goal is to resolve environmental quality issues related to weapon systems that are identified during design, development, testing, operation, or support to reduce Army environmental liabilities and total ownership costs and includes efforts to eliminate the use of hazardous and ozone-depleting materials from weapon systems and facilities and to ensure the availability of Halon 1301 to support weapon system fire suppression requirements.

The Unexploded Ordnance Detection and Clearance project, beginning in FY 2004, is being overseen by the Army. The project had been overseen by Office of the Secretary of Defense in prior years. This project funds the Unexploded Ordnance Center of Excellence (UXOCOE) to provide for coordination of unexploded ordnance (UXO) technologies across the Department of Defense.

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BA 6: RDT&E Management Support					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	4.953	4.601	4.037	-	4.037
Current President's Budget	4.801	4.601	5.193	-	5.193
Total Adjustments	-0.152	0.000	1.156	-	1.156
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.152	-			
• Adjustments to Budget Years	-	-	1.156	-	1.156

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0605857A: Environmental Quality Technology Mgmt Support				PROJECT 031: Environmentally Sustainable Acquisition/Logistics			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
031: Environmentally Sustainable Acquisition/Logistics	-	3.591	3.441	4.279	-	4.279	3.294	4.920	2.632	4.679	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The Environmentally Sustainable Acquisition/Logistics (ESAL) project provides support to the system acquisition community to integrate environmental quality (EQ) issues and concerns into the life cycle system acquisition process. To a much lesser extent, safety, occupational health (OH) and energy efficiency are also addressed. The focus of ESAL is on improving readiness, improving acquisition processes, reducing supportability burden, and minimizing total ownership cost. The Assistant Secretary of the Army for Installations, Energy and Environment [ASA(IE&E)] has defined the functions of the ESAL project in coordination with the Army Acquisition Executive and the Assistant Secretary of the Army (Acquisition, Logistics, and Technology). This project provides direct support to the Army acquisition community to pursue environmental sustainability and comply with legal statutes, policies and regulations during the life cycle of Army materiel. ESAL helps the Army achieve compliance with its weapon systems, industrial base, field and deployed activities directed by international treaties, Federal statutes, Executive Orders, Department of Defense (DoD) and Army policies and regulations.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Environmental Quality Support									1.619	1.632	1.215	
									Articles: 0	0		
Description: Environmental Quality Support to Acquisition Programs												
FY 2012 Accomplishments: Provided support to Program Executive Officers and Program Managers (PEOs/PMs) to integrate EQ considerations and, to a much lesser extent, some safety and OH considerations into systems engineering activities. This included fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, participation in development of test plans and protocols, oversight of testing efforts, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Provided technology management and technical support to logistics initiatives including the EQ aspects of the Army Corrosion Program and the DoD Corrosion Program. Analyzed impending legal statutes impacting production, operation and support of weapon systems. Supported achievement of the Executive Order 13514 energy and greenhouse gas emission reduction goals, Pollution Prevention goals, and Army industrial base facility goals; Executive Order 13423 and associated Army goals for Toxic and Hazardous Chemical Reduction; and the												

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0605857A: <i>Environmental Quality Technology Mgmt Support</i>		PROJECT 031: <i>Environmentally Sustainable Acquisition/Logistics</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
<p>Defense Federal Acquisition Regulation Supplement (DFARS) clause restricting the use of hexavalent chromium on all defense contracts. Assessed readiness impacts to weapon systems resulting from EQ impacts in capabilities of industrial base and garrisons to support production levels, training and operational tempo and maintenance activities. Provided Army acquisition community representation in Office of the Secretary of Defense (OSD) and Department of the Army (DA) committees addressing environmental legislation and rulemaking.</p> <p>FY 2013 Plans: Provide support to PEOs/PMs to integrate EQ considerations and, to a much lesser extent, some safety and OH considerations into systems engineering activities. This includes fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, participation in development of test plans and protocols, oversight of testing efforts, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Analyze impending legal statutes impacting production, operation and support of weapon systems. Support achievement of the Executive Order 13514 energy and greenhouse gas emission reduction goals, Pollution Prevention goals, and Army industrial base facility goals; Executive Order 13423 and associated Army goals for Toxic and Hazardous Chemical Reduction; and the DoD policy, DFARS clause and Army policy restricting the use of hexavalent chromium. Assess weapon system readiness impacts (e.g., production levels, training, operational tempo and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Provide Army acquisition community representation in OSD and DA committees addressing environmental legislation and rulemaking.</p> <p>FY 2014 Plans: Will provide support to PEOs/PMs to integrate EQ considerations into systems engineering activities. This will include fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Will analyze impending legal statutes impacting production, operation and support of weapon systems. Will assess weapon system readiness impacts (e.g., production levels, training, operational tempo and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Will provide Army acquisition community representation in select OSD and DA committees addressing environmental legislation and rulemaking.</p>					
<p>Title: Environmental Quality Technology (EQT) Program Management</p> <p style="text-align: right;">Articles:</p> <p>Description: Provide EQT program management support to Army programs</p> <p>FY 2012 Accomplishments:</p>			1.338 0	1.228 0	1.028

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
<p>Provided system acquisition support to the Army's Environmental Technology Technical Council (ETTC) and coordination of EQ-related systems' needs for expanded research, development, test and evaluation (RDT&E) efforts. Performed program management and oversight of technology integration efforts by Army Life Cycle Management Commands and PEO/PM environmental integrated process teams for new design, new procurement and fielded weapon systems. Provided technology management, technical support, and representation of the Army Materiel Command voting member of the Army EQT program. This included coordination of RDT&E Budget Activity 1 (BA-1) and BA-2 requirements among members of the EQT Pollution Prevention Technology Team, coordination of RDT&E BA-3 and BA-4 technology evaluations and operational requirements in support of weapon system platform integration, management and oversight for developing test plans, oversight of testing activities, and technical data analysis of test results to support weapon systems engineering decision making. Participated in performance and cost/risk assessments in support of ASA(IE&E) program objectives. Managed development and execution of plans for the following pollution prevention technology areas: reformulation of materials used in ammunition, rockets and missiles, and pyrotechnics to remove perchlorate and other hazardous constituents; Zero Footprint Camp to reduce the fuel and water logistics burden in Overseas Contingency Operations; Reductions in Toxic Metals Used in Surface Finishing on Army Weapon Systems; Alternative Battlefield Fuels; Airborne Lead Reduction in Army Weapon Systems; and other emerging pollution prevention technology areas as necessary.</p> <p>FY 2013 Plans: Provide system acquisition support to the Army's ETTC and coordination of EQ-related systems' needs for expanded RDT&E efforts. Manage and oversee technology integration efforts by Army Life Cycle Management Commands and PEO/PM environmental integrated process teams for weapon systems in all stages of design, procurement and operations/support. Coordinate RDT&E BA-1 and BA-2 requirements among members of the EQT Pollution Prevention Technology Team, coordinate RDT&E BA-3 and BA-4 technology evaluations and operational requirements in support of weapon system platform integration, manage and oversee test plan development, oversee testing activities, and analyze test results to support weapon systems engineering decision making. Participate in performance and cost/risk assessments in support of ASA(IE&E) program objectives. Manage development and execution of plans for the following pollution prevention technology areas: reformulation of materials used in ammunition and pyrotechnics to remove hazardous constituents; Zero Footprint Camp to reduce the fuel and water logistics burden in Overseas Contingency Operations; Reductions in Toxic Metals Used in Surface Finishing on Army Weapon Systems; Alternative Battlefield Fuels; and Airborne Lead Reduction in Army Weapon Systems.</p> <p>FY 2014 Plans: Will provide system acquisition support to the Army's ETTC and coordination of EQ-related systems' needs for expanded RDT&E efforts. Will manage and oversee technology integration efforts by Army Life Cycle Management Commands for weapon systems in all stages of design, procurement and operations/support. Will coordinate RDT&E BA-2 requirements among members of the EQT Pollution Prevention Technology Team, coordinate RDT&E BA-3 and BA-4 technology evaluations and operational requirements in support of weapon system platform integration, manage and oversee test plan development, oversee testing</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
activities, and analyze test results to support weapon systems engineering decision making. Will manage development and execution of plans for the following pollution prevention technology areas: reformulation of materials used in ammunition and pyrotechnics to remove hazardous constituents; Zero Footprint Camp to reduce the fuel and water logistics burden in Overseas Contingency Operations; Reductions in Toxic Metals Used in Surface Finishing on Army Weapon Systems; and Airborne Lead Reduction in Army Weapon Systems.			FY 2014
Title: Ozone Depleting Substance Management		0.634	0.581
Articles:		0	0
Description: Oversee Army efforts to manage the use/elimination of ozone depleting substances on Army weapon systems.			0.337
FY 2012 Accomplishments: Oversaw Army efforts to manage the use/elimination of ozone-depleting substances, greenhouse gases, and hazardous and toxic materials on Army weapon systems. Managed and oversaw the Army's reserve of ozone-depleting substances that contains the Army's strategic supplies of Halon used for explosion and fire suppression systems and R-22 used in fielded environmental control units. Coordinated with PEOs/PMs to affect system replacement and retrofit to eliminate ozone depleting substances while minimizing greenhouse gases, obtained approval to require use of Halon in new contracts, and assisted garrison commanders to assure recovery and deposit of excess Halon and R-22 into the reserve. Participated in Federal government and multi-national forums discussing use and replacement of ozone depleting substances and greenhouse gases, justifying mission critical applications, and addressing international importation and use regulations/restrictions. Significant effort supported Army warfighters in Operation Enduring Freedom and Operation New Dawn assuring adequate supplies of fire/explosion suppression and cooling agents in the theatre of operations.			
FY 2013 Plans: Oversee Army efforts to manage the use/elimination of ozone-depleting substances, greenhouse gases, and hazardous and toxic materials on Army weapon systems. Manage and oversee the Army's reserve of ozone-depleting substances that contains the Army's strategic supplies of Halon used for explosion and fire suppression systems and R-22 used in fielded environmental control units. Coordinate with PEOs/PMs to affect system replacement and retrofit to eliminate ozone depleting substances while minimizing greenhouse gases, obtain approval to require use of Halon in new contracts, and assist garrison commanders to assure recovery and deposit of excess Halon and R-22 into the reserve. Participate in Federal government and multi-national forums discussing use and replacement of ozone depleting substances and greenhouse gases, justifying mission critical applications, and addressing international importation and use regulations/restrictions.			
FY 2014 Plans: Will oversee Army efforts to manage the use/elimination of ozone-depleting substances on Army weapon systems. Will monitor the Army's reserve of ozone-depleting substances that contains the Army's strategic supplies of Halon used for explosion and			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
fire suppression systems and R-22 used in fielded environmental control units. Will coordinate with PEOs/PMs to affect system replacement and retrofit to eliminate ozone depleting substances while minimizing greenhouse gases and will obtain approval to require use of Halon in new contracts.			
Title: Headquarters Army Environmental System (HQAES) Description: Headquarters Army Environmental System (HQAES) support. FY 2014 Plans: Will support Headquarters Army Environmental System (HQAES) modifications recommended by Configuration Control Management Board in order to support network security worthiness.	0.000	0.000	1.699
Accomplishments/Planned Programs Subtotals	3.591	3.441	4.279

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

Remarks

D. Acquisition Strategy
N/A

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.

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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
06H: Unexploded Ordnance Clearance Technology Support	-	1.210	1.160	0.914	-	0.914	1.354	1.290	1.173	1.194	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note Not applicable for this item.												
A. Mission Description and Budget Item Justification This effort was devolved to the Army from the office of the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)). This effort funds the Unexploded Ordnance Center of Excellence (UXOCOE), which provides the day-to-day management, coordination, and information clearinghouse functions, and serves as the Department of Defense's (DoD) center for coordinating Unexploded Ordnance (UXO) Research, Development, Test and Evaluation (RDT&E) requirements and programs across DoD; develops and promotes standards for testing, modeling, and evaluation; maintains information on technologies for UXO detection and clearance; publishes an annual report summarizing the activities and accomplishments of the UXOCOE in order to improve the effectiveness and economy of UXO detection and clearance RDT&E efforts throughout DoD; and gathers and maintains a database for the results of these efforts. The Army manages, oversees, and coordinates this effort on behalf of the office of the USD(AT&L).												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Coordinate/collect/analyze UXO RDT&E information via conferences, seminars, and workshops. Articles: Description: Coordinate/collect/analyze UXO RDT&E information via conferences, seminars, and workshops. FY 2012 Accomplishments: Identified \$12 million in potential savings to the DoD in technology leveraging opportunities. Identified and catalogued over 300 separate counter explosive hazards detection and neutralization technologies. Established new partnerships with Joint Improvised Explosive Devices Defeat Organization and National Bomb Squad Commanders Advisory Board in order to better coordinate outreach and sharing of information as it pertains to Identified \$140 million in explosive hazards technology investment by direct attendance and participation in DoD, industry and other meetings. Increased explosive hazards mission area awareness to senior DoD officials through participation in 14 separate technology integration groups. FY 2013 Plans:									0.481	0.389	0.503	
									0	0		

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Coordinate/collect/analyze UXO RDT&E information via conferences, seminars, and workshops.				
FY 2014 Plans: Will catalogue and conduct analysis of explosive hazards requirements and technologies across the detection and neutralization tenets to identify explosive hazards technology capability gaps and leveraging opportunities found across DoD and other research and engineering activities.				
Title: Generate an annual UXO Clearance Report focused on UXO RDT&E efforts for countermine, explosive ordnance disposal, UXO remediation, humanitarian demining, and active range clearance.		0.225 0	0.237 0	0.183
Articles: Description: Generate an annual UXO Clearance Report focused on UXO RDT&E efforts for countermine, explosive ordnance disposal, UXO remediation, humanitarian demining, and active range clearance.				
FY 2012 Accomplishments: Produced and publish an Annual Report focused on the coordination of all DoD explosive hazards research and engineering efforts among five counter explosive hazards mission areas (Countermine, Explosive Ordnance Disposal, Humanitarian Demining, Munitions Response and Range Sustainment. The effort required in compiling and formatting report data aligns with the everyday work effort of assigned analysts. UXOCOE Annual Report is found and distributed entirely over unclassified and classified information networks.				
FY 2013 Plans: Generate an annual UXO Clearance Report focused on UXO RDT&E efforts for countermine, explosive ordnance disposal, UXO remediation, humanitarian demining, and active range clearance.				
FY 2014 Plans: Will generate an annual UXO Clearance Report focused on UXO RDT&E efforts for countermine, explosive ordnance disposal, UXO remediation, humanitarian demining, and active range clearance.				
Title: Maintain and update the UXO clearance/detection databases and computer web site and analyze data from and programs in UXO RDT&E for potential solutions to UXO related needs.		0.311 0	0.329 0	0.174
Articles: Description: Maintain and update the UXO clearance/detection databases and computer web site and analyze data from and programs in UXO RDT&E for potential solutions to UXO related needs.				
FY 2012 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Maintained, updated, and modernized electronic reports, information products and UXOCOE databases and computer web site to promote broader interaction and sharing of information, concepts and technology within DoD, other US and international agencies, academia, and industry. FY 2013 Plans: Maintain and update the UXO clearance/detection databases and computer web site and analyze data from and programs in UXO RDT&E for potential solutions to UXO related needs. FY 2014 Plans: Will maintain and update the UXO clearance/detection databases and computer web site and analyze data from and programs in UXO RDT&E for potential solutions to UXO related needs.				
Title: Provide oversight of UXOCOE's Ft. A. P. Hill test site which is used for standardized scientific experiments to help gather data on and model the performance of potential UXO sensors. Articles: Description: Provide oversight of UXOCOE's Ft. A. P. Hill test site which is used for standardized scientific experiments to help gather data on and model the performance of potential UXO sensors. Data are needed for the acquisition of UXO sensor performance data versus a full system evaluation. Focus is on the sensor itself, not on full-scale operational system capability. Full-scale development would occur during engineering and manufacturing development and be aimed at meeting validated requirements prior to full-rate production. FY 2012 Accomplishments: Provided oversight of UXOCOE's Ft. A. P. Hill test site which was used for standardized scientific experiments to help gather data on and model the performance of potential UXO sensors. Data were needed for the acquisition of UXO sensor performance data versus a full system evaluation. Focus was on the sensor itself, not on full-scale operational system capability. Full-scale development would occur during engineering and manufacturing development and be aimed at meeting validated requirements prior to full-rate production. FY 2013 Plans: Provide oversight of UXOCOE's Ft. A. P. Hill test site which is used for standardized scientific experiments to help gather data on and model the performance of potential UXO sensors. Data are needed for the acquisition of UXO sensor performance data versus a full system evaluation. Focus is on the sensor itself, not on full-scale operational system capability. Full-scale development would occur during engineering and manufacturing development and be aimed at meeting validated requirements prior to full-rate production.		0.193 0	0.205 0	0.000
Title: Maintain awareness of UXO issues		0.000	0.000	0.054

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
<p>Description: Conduct and attend requirements and technology conferences, seminars and workshops and meetings to coordinate and improve the awareness of explosive hazards technology research and engineering initiatives being developed.</p> <p>FY 2014 Plans: Will plan, organize and conduct an annual explosive hazards technology coordination meeting bring together the major Military Service and OSD technologists and program managers. Will identify and participate in DoD, industry and academia sponsored meetings and symposiums. Will update on a quarterly basis UXOCOE information products with information collected at various meetings and conferences. Will identify and disseminate technology leveraging opportunities within explosive hazards community.</p>			
Accomplishments/Planned Programs Subtotals		1.210	1.160
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
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.			