	ARMY RDT&E BUDGET ITEM JUS	STIFICATION	l (R2 E	xhibit)		F	ebruary 2	2004	
	CACTIVITY Inagement support	PE NUMBER 0605857/ Support			l Quality	Techno	logy Mgı	mt	
	COST (In Thousands)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
			Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
	Total Program Element (PE) Cost		1794	4780	4527	4434	4424	4645	4891
031	ACQUISITION POLLUTION PREVENTION		1498	3258	2973	2967	3162	3340	3540
06E	ENVIRONMENTAL RESTORATION TECH SUPPORT		153	183	190	0	0	0	0
06G	ENVIRONMENTAL COMPLIANCE TECHNOLOGY SUPPORT		143	179	315	420	149	156	164
06H	UNEXPLODED ORDNANCE CLEARANCE TECHNOLOGY SUPPORT		0	1160	1049	1047	1113	1149	1187

A. Mission Description and Budget Item Justification: This program resources environmental quality technology (EQT) related management support functions including support of RDT&E 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 or 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 Army Acquisition Pollution Prevention Project (A2P3).

The Army Acquisition Pollution Prevention Project provides support to the weapon system acquisition community; e.g., program and project managers, to integrate environmental quality analyses into system acquisition. The A2P3 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 cost and includes the following: efforts to eliminate the use of hazardous and ozone-depleting materials from weapon systems and facilities, and helping to ensure the availability of Halon 1301 to support weapon system fire suppression requirements through the year 2020.

The Environmental Restoration Technology Support project will: (1) support the technical integration of an enhanced sensing/processing system for optimized multi-sensor unexploded ordnance (UXO) identification and discrimination at an RDT&E validation site and (2) support the technical integration of a comprehensive hazard/risk assessment capability to predict contaminant, ecological, and human risks on active and inactive firing ranges of military unique materials at an RDT&E demonstration site.

The Environmental Compliance Technology Support project will, resource management support of transfer technology to: (1) identify risk assessment parameters for determining environmental compliance for training and live-fire operations and to identify on-post and off-post impacts; (2) develop and validate a compliance risk assessment model for training range siting, design, and maintenance to provide input

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY

6 - Management support

PE NUMBER AND TITLE

0605857A - Environmental Quality Technology Mgmt Support

to the military construction process; and (3) evaluate and validate improved designs for ranges that incorporate erosion and contaminant control technologies for current range problems and to support future sustainable range designs.

The Unexploded Ordnance Detection and Clearance (JUXOCO) project will, beginning in FY2004, be overseen by the Army. The project has been overseen by office of the Secretary of Defense prior to FY2004. This project funds the Joint Unexploded Ordnance Coordination Office (JUXOCO) of the Unexploded Ordnance Center of Excellence (UXOCOE) to develop policy and provide oversight in coordinating requirements and technology in detection and clearance of unexploded ordnance (UXO) within the Department of Defense (DoD).

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	1820	4938	5217
Current Budget (FY 2005 PB)	1794	4780	4527
Total Adjustments	-26	-158	-690
Congressional program reductions		-43	
Congressional rescissions			
Congressional increases			
Reprogrammings	-26	-115	
SBIR/STTR Transfer			
Adjustments to Budget Years			-690

Change Summary Explanation: Funding - FY2005: Funds realigned (-\$690) to support higher priority requirements.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) February 2004								
BUDGET ACTIVITY 6 - Management support	PE NUMBER 0605857 A Mgmt Su	A - Envir		l Quality	Techno	logy	PROJECT 031	
COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
031 ACQUISITION POLLUTION PREVENTION		1498	3258	2973	2967	3162	3340	3540

A. Mission Description and Budget Item Justification: The Army Acquisition Pollution Prevention Project (A2P3) provides support to the weapon system acquisition community to integrate environmental quality issues and concerns into the weapon system acquisition process. The Army Acquisition Executive, the Assistant Secretary of the Army (Acquisition, Logistics, and Technology), and the Commanding General, Army Materiel Command have defined the functions of A2P3 in coordination with the office of the Assistant Secretary of the Army for Installations and Environment. This project supports acquisition policy support for the environmental quality concerns of Program Executive Officers and Program Managers and environmental training for the weapon system acquisition community. A2P3 helps the Army achieve environmental compliance with its weapon systems directed by international treaties, Federal statutes, National Emission Standards, Executive Orders, and DoD and Army policies and regulations.

Army Acquisition Pollution Prevention Project funds weapon system acquisition support to the Army's Environmental Technology Technical Council and coordinates environmental quality related weapon systems' needs for expanded research and development efforts. A2P3 tasks are executed using appropriate Army research, development, and engineering centers; Army laboratories; and contractor facilities. Technologies are assessed for toxicity and safety risk and are implemented by weapon system Program Managers with their resources during design, development, or production; on the shop floor; during operations; and/or through improved materials and processes used by or on their system.

Army Acquisition Pollution Prevention Project includes Army efforts to eliminate the use of ozone-depleting substances from weapon systems and facilities, the Army Halon 1301 reserve, and Army acquisition efforts to eliminate the use of hazardous and toxic materials on Army weapon systems. A2P3 works in coordination with field units and field commands to leverage lessons-learned from field commanders to reduce the burden of hazardous materials on logistics and to reduce hazardous waste generated during operations and support of weapon systems. This includes supporting National Environmental Policy Act (NEPA) analyses by sharing data at the major command, installation, and unit level as appropriate. The focus of A2P3 is on readiness, improved acquisition processes, reduced supportability burden, and total ownership cost reduction. A2P3 includes support to the Joint Group for Pollution Prevention (JG-PP).

This project supports the Current to Future transition path of the Transformation Campaign Plan (TCP).

ARMY RDT&E BUDGET ITEM .	JUSTIFICATION (R-2A Exhibit)	Februa	February 2004				
UDGET ACTIVITY 5 - Management support	y Technology	PROJECT					
ccomplishments/Planned Program		FY 2003	FY 2004	FY 2005			
Acquisition pollution prevention RDT&E program management and ubordinate commands and weapon system program environmental ssistance in integrating pollution prevention technologies into syste reapon system environmental management teams to implement Dozone depleting substances and environmental management system rovided oversight to seven integrated process teams addressing encluding participation in the Stryker Armored Vehicle and Comanchinanagement support across commodity areas for the Future Comban development of Environmental Analyses related to Army Transform	I integrated process teams. Participation and technical em engineering activities. Technology management with pD/Army policies related to hazardous and toxic materials, ms to reduce environmental risks to acquisition programs. Invironmental quality issues from Army commodities are environment management teams. Provide technology at Systems and represent the Army Acquisition Community	667	664	501			

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) February 2004 PE NUMBER AND TITLE **BUDGET ACTIVITY** PROJECT 6 - Management support 0605857A - Environmental Quality Technology 031 **Mgmt Support** Accomplishments/Planned Program (continued) FY 2003 FY 2004 FY 2005 - Technical management and oversight of the Army's reserve of ozone depleting substances. Includes oversight of Army programs developing alternative substances to substitute into mission critical applications in tactical vehicles and aircraft. The reserve contains the Army's strategic resources of Halon 1301 used for explosion and fire suppression systems, and Freon (R-12) used for tactical cooling systems in wheeled combat and combat support vehicles. Technical management includes oversight of operational use of reserve resources, resolution of operational problems affecting reserve resources, coordination with weapon system Program Managers to affect system replacement and retrofit to eliminate ozone depleting substances. coordination and technical assistance to garrison commanders to assure recovery and deposit of excess Halon 1301 and R-12 into the reserve and management of resource levels to assure continued availability of Halon 1301 and R-12 needed to support combat mission critical applications throughout the life of current weapon systems (FY 2030). Includes participation in Federal government and multi-national forums discussing use of ozone depleting substances, justifying mission critical applications, and addressing importation and use legislation throughout overseas field locations. Provided support to the warfighter for both Operation Enduring Freedom and Operation Irag Freedom for Halon support needs. Achieved elimination of ozone depleting substances used in solvent applications; initiated retrofit of NBC Fox vehicles tactical cooling; working retrofit to tactical ambulance cooling; and currently overseeing development of CO2 alternatives and supporting implementation of non-ozone depleting substance explosion and fire suppression in the Stryker Armored Vehicle. - Technical management and oversight of health hazard and toxicity assessment of pollution prevention technology (materials 150 208 221 and chemicals used in weapon system configuration, production, maintenance and operation). Army regulation requires all new materials and chemicals be assessed for health hazards and toxicity prior to introduction into the Army inventory. Technical management and oversight assure "environmentally preferable" materials and chemicals do not introduce unknown risks to soldiers and workers. Technical management is provided to assist in performance risk decisions for implementing pollution prevention technologies. Provided technology management of toxicity assessments of alternatives to Halon 1301 used in fire suppression systems, alternatives to cadmium plating, and alternatives hexavalent chromium used in painting processes.

ARMY RDT&E BUDGET ITEM .	Februa	February 2004				
JDGET ACTIVITY - Management support	PE NUMBER AND TITLE 0605857A - Environmental Quality Mgmt Support	Technology	PROJECT echnology 031			
ccomplishments/Planned Program (continued)		FY 2003				
echnical support to Program Executive Offices and Program Mana- to systems engineering activities. Includes definition of technology inticipation in developing test plans and protocols, oversight of test plementation decisions, participation in technical and cost risk assignification of successful technology integration, operations, and seapon system environmental management teams located at major anagement and participation in documentation and review process ecisions. Directly supported elimination of cadmium, hex chrome, a cound combat systems. Developed an Environmental Management avironmental statutes and regulations affecting communications-ele- communication for operational requirements documents in preparation	y requirements to meeting operational requirements, ting efforts, analysis of technical data to support sessments and revisions of contractual and operational support. Accomplished through direct participation in subordinate commands. Includes technology ses supporting weapon system program milestone and Halon from the Stryker Armored Vehicle and other at System for Future Combat Systems, reviewed ectronic commodities, and prepared environmental	206	585	543		
Technology management, technical support and representation of sommander's Joint Group for Pollution Prevention. Includes coordinated are coordinated as a coordination of technology and operational requirements are sight for developing joint test protocols, oversight of testing activistems engineering decision making.	nation of technology requirements among service among Army program managers, management and	120	132	178		

BUDGET ACTIVITY 6 - Management support	PROJECT 031			
Accomplishments/Planned Program (continued) - Technology management, technical support, and representation of t	the AMC voting member of the Army's Environmental	FY 2003 175	FY 2004 576	FY 2005 543
Quality Technology program's Environmental Technology Technical Case (RDT&E Budget Activities 1 & 2) requirements among members coordination of technology and operational requirements in support of evaluations in support of weapon system platform integration, manage of testing activities, and technical data analysis of test results to supperarticipation in performance and cost/risk assessments in support of Environment) [ASA(I&E)] program objectives. Manage development development including Sustainable Painting Operations for the Total Ampending National Emission Standards for Hazardous Air Pollutants	s of the ETTC Pollution Prevention Technology Team, f RDT&E Budget Activities 3 and Budget Activities 4 ement and oversight for developing test plans, oversight ort weapon systems engineering decision making. Assistant Secretary of the Army (Installations and and execution of plans for pollution prevention technology Army (SPOTA) that addresses Army compliance with			
Technology management and technical support to AMC industrial banaintaining pollution prevention technology. Includes coordination of echnology for resolution of industrial base (depots, arsenals and ammassociated with weapon system fielding (operation and support). Coordielding. Analysis of impending legal statutes impacting production, of eadiness impacts to weapon systems resulting from impacts in capal production levels, training and operational tempo and maintenance aconstallation Management and ASA(I&E) representatives in assessing Emission Standards for Hazardous Air Pollutants (NESHAP) on Army Evaluation of impacts of impending NESHAPs on Army Transformatic Provide Army Acquisition Community representation in development including local Environmental Impact Statements.	weapon system integration of pollution prevention munition plants) and garrison environmental quality issues ordination and information transfer supporting materiel peration and support of weapon systems. Assessment of bilities of industrial base and garrisons to support ctivities. Participate with Assistant Chief of Staff for the readiness implications of impending National industrial base and garrison activities. Oversee on and fielding of the Stryker Brigade Combat Teams.	0	637	609
- Small Business Innovative Research/Small Business Technology Tr	ransfer Programs	0	96	0
Totals		1498	3258	2973

	ARMY RDT&E BUDGET ITEM JUSTIF	ICATION	(R-2A	Exhib	it)	Fe	ebruary 2	2004	
	ACTIVITY nagement support	PE NUMBER 0605857/ Mgmt Su	A - Envir		l Quality	Techno	logy	PROJECT 06H	
	COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
06H	UNEXPLODED ORDNANCE CLEARANCE TECHNOLOGY SUPPORT		0	1160	1049	1047	1113	1149	1187

A. Mission Description and Budget Item Justification: This project was transferred to the Army from the office of the Under Secretary of Defense for Acquisition and Technology. This project funds the Joint Unexploded Ordnance Coordination Office (JUXOCO) of the Unexploded Ordnance Center of Excellence (UXOCOE) to develop policy and provide oversight in coordinating requirements and technology in detection and clearance of unexploded ordnance (UXO) within the Department of Defense (DoD), as well as with other United States and international agencies, academia, and industry. The DoD Executive Agent for the National Defense Center for Environmental Excellence (NDCEE) will oversee and coordinate this project on behalf of the office of the Under Secretary of Defense for Acquisition and Technology. In addition, this project funds the establishment and maintenance of standards for testing, modeling, and evaluation of unexploded ordnance detection and clearance technology and gathers and maintains a database for the results of these efforts.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Conduct requirements and technology workshops to coordinate and improve the efficiency of technological thrusts of DoD	0	120	115
UXO RDT&E Coordinate/collect/analyze UXO RDT&E information via conferences, seminars, and workshops.	0	305	347
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	187	178
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	291	273
Provide oversight of JUXOCO'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	222	136
Small Business Innovative Research/Small Business Technology Transfer Programs.	0	35	0

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ARMY RDT&E BUDGET I	February 200	04	
BUDGET ACTIVITY 5 - Management support			
.ccomplishments/Planned Program (continued)		FY 2003 FY 20	04 FY 2005
Totals			60 1049
		0	110