	ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		February 2003						
	ACTIVITY nagement support	PE NUMBER 0605857A Spt			Quality Te	echnology	Manage	ment	
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
	Total Program Element (PE) Cost	1662	1820	4938	5217	5226	5005	5142	5269
031	ACQUISITION POLLUTION PREVENTION	1662	1524	3366	3426	3498	3576	3697	3814
06E	ENVIRONMENTAL RESTORATION TECH SUPPORT	0	153	189	218	0	0	0	0
06G	ENVIRONMENTAL COMPLIANCE TECHNOLOGY SUPPORT	0	143	185	363	494	169	173	177
06H	UNEXPLODED ORDNANCE CLEARANCE TECHNOLOGY SUPPORT	0	0	1198	1210	1234	1260	1272	1278

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: support to the Joint Group for Pollution Prevention, 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, beginning in FY 2003: (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, beginning in FY 2003, 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

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BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605857A - Environmental Quality Te	chnology Management
	Spt	

impacts; (2) develop and validate a compliance risk assessment model for training range siting, design, and maintenance to provide input 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 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	1719	1902	1495	1705
Current Budget (FY 2004/2005 PB)	1662	1820	4938	5217
Total Adjustments	-57	-82	3443	3512
Congressional program reductions				
Congressional rescissions		-20		
Congressional increases				
Reprogrammings	-9	-11		
SBIR/STTR Transfer	-48	-51		
Adjustments to Budget Years			3443	3512

Change Summary Explanation: Funding - FY2004/FY2005: The project for Unexploded Ordnance Detection and Clearance (JUXOCO) was transferred for oversight by office of the Secretary of Defense to the Assistant Secretary of the Army for Installations and Environment beginning in FY2004. In addition, funds were realigned in FY2004 and thereafter from Operations and Maintenance, Army to focus work on RDT&E supporting pollution prevention technology needs of Army Program Executive Officers and Program Managers.

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6 - Management support	PE NUMBER 0605857A Managem	- Enviro		Quality Te	echnology	r	PROJECT 031	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
031 ACQUISITION POLLUTION PREVENTION	1662	1524	3366	3426	3498	3576	3697	3814

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.

A2P3 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; the National Defense Center for Environmental Excellence (NDCEE); 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.

A2P3 includes Army efforts to eliminate the use of ozone-depleting chemicals 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 avoidance. A2P3 includes support to the Joint Group for Pollution Prevention (JG-PP).

This project supports the Interim transition path of the Transformation Campaign Plan (TCP).

JDGET ACTIVITY - Management support	I JUSTIFICATION (R-2A Exhibit) PE NUMBER AND TITLE 0605857A - Environmental Quality	Technol	Februai ogy	PROJE 031	ЕСТ
	Management Spt				
complishments/Planned Program Acquisition pollution prevention RDT&E program management and over bordinate commands and weapon system program environmental integrating pollution prevention technologies into system engineering activironmental management teams to implement DoD/Army policies related environmental management systems to reduce environmental risks to ams addressing environmental issues from Army commodities and incluvironment management teams. Beginning technology management supposessem of systems") in FY03 and representing the Army Acquisition Commy Transformation and current fielding of Stryker Brigade Combat Teams	rated process teams. Participation and technical assistance in vities. Technology management with weapon system ed to hazardous and toxic materials, ozone depleting chemicals acquisition programs. Provided oversight to 7 integrated process ading participation in the Stryker Armored Vehicle and Comanche oport across commodity areas for the Future Combat Systems community in development of Environmental Analyses related to	FY 2002 667	FY 2003 693	FY 2004 747	FY 2005 754

ARMY RDT&E BUDGET ITEM JUST BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605857A - Environmental Quality Management Spt	Technol		PROJECT 031		
Accomplishments/Planned Program (continued) Technical management and oversight of the Army's reserve of ozone depleting chemical developing alternative chemicals to substitute into mission critical applications in tact farmy's strategic resources of Halon 1301 used for explosion and fire suppression syst systems in wheeled combat and combat support vehicles. Technical management includes support and retrofit to eliminate ozone depleting chemicals, coordination assure recovery and deposit of excess Halon 1301 and R-12 into the reserve and management availability of Halon 1301 and R-12 needed to support combat mission critical applications and includes participation in Federal government and multi-national forums demission critical applications, and addressing importation and use legislation throughout ozone depleting chemicals used in solvent applications; initiated retrofit of NBC Fox ambulance cooling; currently overseeing development of CO2 alternatives and support explosion and fire suppression in the Stryker Armored Vehicle (the Army's Interim Army's Interim Army is Interim Army in the Stryker Armored Vehicle (the Army's Interim Army is Interimental Interior in Interimental Interior in Interior	ical vehicles and aircraft. The reserve contains the tems, and Freon (R-12) used for tactical cooling ludes oversight of operational use of reserve in with weapon system Program Managers to affect and technical assistance to garrison commanders to agement of resource levels to assure continued ations throughout the life of legacy weapon systems discussing use of ozone depleting chemicals, justifying ut overseas field locations. Achieved elimination of vehicles tactical cooling; working retrofit to tactical rting implementation of non-ozone depleting chemical	FY 2002 180	FY 2003 180	FY 2004 360	FY 2005 378	
Technical management and oversight of health hazard and toxicity assessment of pochemicals) used in weapon system configuration, production, maintenance and operatchemicals be assessed for health hazards and toxicity prior to introduction into the Arassure "environmentally preferable" materials and chemicals do not introduce unknownanagement is provided to assist in performance risk decisions for implementing pollmanagement of toxicity assessments of alternatives to Halon 1301 used in fire suppresent and the provided to a system.	ion. Army regulation requires all new materials and my inventory. Technical management and oversight vn risks to soldiers and workers. Technical lution prevention technologies. Provided technology	150	150	208	221	

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605857A - Environmental Quality Management Spt	y Technol	ogy	PROJECT 031		
Accomplishments/Planned Program (continued) Technology support to Program Executive Offices and Program Managers to engineering activities. Includes definition of technology requirements to meet plans and protocols, oversight of testing efforts, analysis of technical data to stand cost risk assessment and reassessment and revision of contractual and operation and support. Accomplished through direct participation in weapons subordinate commands. Includes technology management in Environmental Mereview processes supporting weapon system program milestone decisions. Distalon from the Interium Armored Vehicle and other ground combat systems. management system for Future Combat Systems (system of systems), review of communications-electronic commodities, and preparation of environmental depreparation for milestone reviews.	ting operational requirements, participation in developing test upport implementation decisions, participation in technical erational requirements for successful technology integration, system environmental management teams located at 7 major Management Systems and participation in documentation and rectly supported elimination of cadmium, hex chrome, and Currently overseeing development of an environmental of environmental statutes and regulations affecting	FY 2002 370	FY 2003 206	FY 2004 633	FY 2005 643	
Technology management, technical support and representation of the Army Commander's Joint Group for Pollution Prevention. Includes coordination of coordination of technology and operational requirements among Army prograsest protocols, oversight of testing activities, and technical data analysis of test	technology requirements among service members, m managers, management and oversight for developing joint	120	120	156	178	

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605857A - Environmental Quality Management Spt	February 2003 PROJECT 031			
Accomplishments/Planned Program (continued) - Technology management, technical support, and representation of the AMC vortechnology program's Environmental Technology Technical Council (ETTC). In 1/2) requirements among members of the ETTC Pollution Prevention Technology requirements in support of RDT&E BA-3 and BA-4 evaluations in support of well woversight for developing test plans, oversight of testing activities, and technical dengineering decision making. Participation in performance and cost/risk assess (Installations & Environment) [ASA(I&E)] program objectives. Manage development in four technology areas including Sustainable Painting Army compliance with impending National Emission Standards for Hazardous Assolution.	Includes coordination of Technology Base (RDT&E BA- ty Team, coordination of technology and operational eapon system platform integration, management and data analysis of test results to support weapon systems ments in support of Assistant Secretary of the Army pment and execution of plans for pollution prevention to Operations for the Total Army (SPOTA) that address	FY 2002 175	FY 2003 175	FY 2004 625	FY 2005 643
Technology management and technical support to AMC industrial base and Arprevention technology. Includes coordination of weapon system integration of phase (depots, arsenals and ammunition plants) and garrison environmental issues support). Coordination and information transfer supporting materiel fielding. A operation and support of weapon systems. Assessment of readiness impacts to vindustrial base and garrisons to support production levels, training and operation Assistant Chief of Staff for Installation Management and ASA(I&E) representational Emission Standards for Hazardous Air Pollutants (NESHAP) on Army of impacts of impending NESHAPs on Army Transformation and fielding of Int Community representation in development of Environmental Analyses for Army Environmental Impact Statements.	sollution prevention technology for resolution of industrial associated with weapon system fielding (operation and nalysis of impending legal statutes impacting production, weapon systems resulting from impacts in capabilities of al tempo and maintenance activities. Participate with ves in assessing the readiness implications of impending industrial base and garrison activities. Oversee evaluation erim Brigade Combat Teams. Provide Army Acquisition	0	0	637	609
		1662	1524	3366	3426

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	ACTIVITY agement support	PE NUMBER 0605857A Managem	- Enviro		Quality To	echnology	7	PROJECT 06H	
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	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	0	1198	1210	1234	1260	1272	1278

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 beginning with the FY2004 funded program. 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 beginning in FY2004. 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. In response to a request from the House National Security Committee and concerns of the General Accounting Office, the Department of Defense submitted a plan in March 1997, "Report to Congress: Unexploded Ordnance Clearance: A Coordinated Approach to Requirements and Technology Development." This report was developed by a joint inter-agency task force comprised of the proponents of the unexploded ordnance (UXO) clearance mission areas (countermine, explosive ordnance disposal, environmental remediation, humanitarian demining, and active range clearance). That report defined research and development priorities, program management, and cooperative activities for technology applicable to UXO clearance. In May 1997, the Under Secretary of Defense for Acquisition and Technology directed the establishment of the UXO Center of Excellence (UXOCOE) to implement the plan, and in October 1997, the Department established the operatio

Accomplishments/Planned Program	FY 2002	FY 2003	FY 2004	FY 2005
Conduct requirements and technology workshops to coordinate and improve the efficiency of technological thrusts of DoD UXO RDT&E.	0	0	120	130
Coordinate/collect/analyze UXO RDT&E information via conferences, seminars, and workshops.	0	0	375	392
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	0	187	200
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	0	291	304

UDGET ACTIVITY - Management support	PE NUMBER AND TITLE 0605857A - Environmental Qualit Management Spt	y Technol	ogy	PROJE 06H	ECT
ccomplishments/Planned Program (continued) rovide oversight of JUXOCO's Ft. A. P. Hill test site which is used for standodel the performance of potential UXO sensors. Data are needed for the activation. Focus is on the sensor itself, not on full-scale operational uring engineering and manufacturing development and be aimed at meeting	quisition of UXO sensor performance data versus a full system capability. Full-scale development would occur	FY 2002 0	FY 2003 0	FY 2004 225	FY 2005 184
otals		0	0	1198	1210