

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

BUDGET ACTIVITY
6 - Management support

PE NUMBER AND TITLE
0605857A - Army Acquisition Pollution Prevention Program

COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	5019	1719	1902	1495	1705	1616	1280	0	14740
031 ACQUISITION POLLUTION PREVENTION	5019	1719	1594	1117	1114	1112	1108	0	12783
06E ENVIRONMENTAL RESTORATION TECH SUPPORT	0	0	159	191	222	0	0	0	576
06G ENVIRONMENTAL COMPLIANCE TECHNOLOGY SUPPORT	0	0	149	187	369	504	172	0	1381

A. Mission Description and Budget Item Justification: This program element 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 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 environmental quality related requirements are included under the Acquisition Pollution Prevention Program.

The Acquisition Pollution Prevention Program provides support to the weapon system acquisition community; e.g., program and project managers, to integrate environmental quality analyses into system acquisition. The Acquisition Pollution Prevention Program 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 life-cycle cost and includes the following: support to the Joint Group for Pollution Prevention, efforts to eliminate the use of ozone-depleting materials from weapon systems and facilities, and helping to ensure the continued 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 Pollution Prevention Regional Partnership project will resource management and support to integrate technologies and techniques to: (1) control non-hazardous Army-generated solid wastes and evaluate new processes that are used to handle, reduce the volume, treat, recycle, or recover material and components from solid waste to reduce the cost of solid waste handling and disposal, (2) test and implement innovative technologies to divert construction and demolition debris from non-hazardous solid waste streams and validate an automated model for estimating demolition debris

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recyclable material contained in deconstruction projects, and (3) develop technology transfer plans in partnership with Interstate Technology and Regulatory Cooperation (ITRC) to transfer the information to military customers and the private sector on regional basis.

The 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 impacts; (2) develop and validate a compliance risk assessment model for 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.

<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	5368	1733	1766
Appropriated Value	5418	1733	0
a. Congressional General Reductions	0	-14	0
b. SBIR/STTR	-160	0	0
c. Omnibus or Program Transfers from Outside the Army	2000	0	0
d. Below Threshold Reprogramming	-2189	0	0
e. Rescissions	-50		0
Adjustments to Budget Years Since FY2002 PB	0	0	136
Current Budget Submit (FY 2003 PB)	5019	1719	1902

Change Summary Explanation: Funding - FY 2001: Funds transferred from Defense-Wide RDTE in support of the Pollution Prevention Regional Partnership program (+2000). Funds were reprogrammed to higher priority Army needs (-2189). FY 2003: Funds were added to this program element to begin supporting the integration of technology to support sustainable live-fire training range design and maintenance.

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February 2002

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605857A - Army Acquisition Pollution Prevention Program	PROJECT 031
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COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
031 ACQUISITION POLLUTION PREVENTION	5019	1719	1594	1117	1114	1112	1108	0	12783

A. Mission Description and Budget Item Justification: The Army Acquisition Pollution Prevention Program (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 science and technology efforts. A2P3 projects are executed using appropriate Army research, development, and engineering centers; Army laboratories; the National Defense Center for Environmental Excellence (NDCEE); and contractor facilities. New 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 life-cycle cost avoidances. A2P3 includes support to the Joint Group for Pollution Prevention (JG-PP).

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BUDGET ACTIVITY

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PROJECT

6 - Management support**0605857A - Army Acquisition Pollution Prevention
Program****031****FY 2001 Accomplishments:**

- 136 - Toxicological assessment of alternative new materials conducted.
- 750 - Program management and oversight conducted.
- 1015 - Process support to Army research, development, and engineering centers provided.
- 412 - Joint Group for Pollution Prevention supported.
- 706 - Project to support evaluation of controlled detonation chambers used to destroy chemical munitions and of technologies to safely destroy unexploded ordnance.
- 2000 - Pollution Prevention Regional Partnership

Total 5019

FY 2002 Planned Program

- 724 - Program management and oversight
- 180 - Halon management and oversight
- 150 - Toxicity assessment for new materials and processes.
- 120 - Support the Joint Group for Pollution Prevention.
- 175 - Environmental Technology Technical Council support
- 370 - Test and Evaluation for Ammunition/Munitions
- Test and Evaluation for Wheeled and Tracked Vehicles

Total 1719

FY 2003 Planned Program

- 711 - Program management and oversight
- 180 - Halon management and oversight
- 150 - Toxicity assessment for new materials and processes
- 120 - Support the Joint Group for Pollution Prevention.

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PE NUMBER AND TITLE

PROJECT

6 - Management support**0605857A - Army Acquisition Pollution Prevention
Program****031****FY 2003 Planned Program (Continued)**

- 175 - Environmental Technology Technical Council support
- 258 - Test and Evaluation for Wheeled and Tracked Vehicles

Total 1594