U.S. Department of Energy

Environmental Management System Implementation Status

Quarterly Review

December 2003

INTRODUCTION

DOE Order 450.1, *Environmental Protection Program,* was issued on January 15, 2003. This Order implements Executive Order (EO) 13148, *Greening the Government Through Leadership in Environmental Management* by requiring the integration of Environmental Management Systems (EMSs) into existing Integrated Safety Management Systems (ISMSs).

EMS implementation reflects accepted management principles based on the "Plan, Do, Check, Act," model using a standard process to identify environmental goals, implement them, determine progress, and make adjustments to ensure continual improvement. Properly implemented, an EMS not only improves regulatory compliance and environmental performance, but also increases overall efficiency and accountability, reduces operational costs and potential liability, and enhances community relations.

In his Earth Day 2003 memorandum dated April 21, 2003, Secretary Abraham stated that the Department is committed to protecting the environment while conducting its important national security and energy-related missions. It is the Secretary's goal, consistent with the requirements of EO 13148, to have EMSs in place at all major DOE sites by **December 31, 2005**. Under DOE O 450.1, *Environmental Protection Program*, Program Secretarial Officers and the Administrators for the National Nuclear Security Administration and Power Administrations are responsible for ensuring that sites under their purview implement EMSs by the end of 2005.

This is an important goal for DOE and all Federal agencies. The Secretary of Energy - and the Department - will be graded by the Administration on progress toward meeting this goal. The Office of the Federal Environmental Executive (OFEE) is tracking all agencies' progress implementing EMSs through use of a scorecard. Each agency's "score" is then reported to the President.

EH-1, as the Department's Agency Environmental Executive, is responsible for reporting DOE's progress to the OFEE. In early September 2003, EH-1 sent a memorandum to Program Offices requesting that line management designate points of contact (POCs) to work with EH to provide the information needed to comply with the EMS progress reporting requirements. All Offices have designated POCs for this purpose and, as reported in the following charts, POCs will provide the status of EMS implementation at sites under their purview on a quarterly basis through 2005 (eight quarters).

The following charts (used for recording progress towards EMS implementation) are based on several metrics established by the OFEE for preparing the agency scorecards for 2003, 2004 and 2005 (adjustments to the chart may be necessary if and when the OFEE refines the scorecards metrics as the 2005 goal draws closer). Additional information on the EMS implementation metrics can be found at the end of this review.

OFFICE OF SCIENCE
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Ames National Laboratory	●	●	●				
Argonne National Laboratory (East)	●	●	●				
Brookhaven National Laboratory	●	●	●	●	●	●	●
Fermi National Accelerator Laboratory	●	●	●	●			
Lawrence Berkeley National Laboratory	●	●					
Oak Ridge National Laboratory and Oak Ridge Institute for Science and Education	●	●	●	●			
	●	●	●	●			
Pacific Northwest National Laboratory	●	●	●	●	●	●	●
Princeton Plasma Physics Laboratory	●	●	●	●			
Stanford Linear Accelerator Center	●	●	●	●			
Thomas Jefferson National Accelerator Laboratory		●					

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by SC-83, December 2003

OFFICE OF ENVIRONMENTAL MANAGEMENT
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
East Tennessee Technology Park	●	●	●	●			
Fernald Environmental Management Project	Not implementing DOE O 450.1 due to the timing of site closure (2006)						
Mound Site//Miamisburg Closure Project	Not implementing DOE O 450.1 due to the timing of site closure (2006)						
Office of River Protection	●						
Paducah Site	DOE O 450.1 is not a requirement in the current contract, which expires 1st quarter CY 04 Two new contracts will be awarded and they will include DOE O 450.1						
Portsmouth Gaseous Diffusion Plant	DOE O 450.1 is not a requirement in the current contract, which expires 1st quarter CY 04 Two new contracts will be awarded and they will include DOE O 450.1						
Richland Flour Daniels Hanford Bechtel Hanford Inc.	● ●	● ●	● ●	● ●	● ●	● ●	
Rocky Flats Environmental Technology Site Closure Project	●	●	●	●	●	●	Site closing in 2006
Savannah River Site	●	●	●	●	●	●	●
Waste Isolation Pilot Plant	●	●	●	●	●	●	●
West Valley Demonstration Project	●	●	●	●	●	●	●

* Proposed Federal (Site-Level) EMS Metrics
● Documented

Reported by EM-3, December 2003

OFFICE OF FOSSIL ENERGY
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Albany Research Center	●	●	●	●	●		
National Energy Technology Laboratory (MGN/PGH)	●	●	●	●	●	●	●
National Petroleum Technology Office							
Naval Petroleum and Oil Shale Reserves CO/UT/WY							
Strategic Petroleum Reserve	●	●	●	●	●	●	●

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by FE-7, December 2003

OFFICE OF NUCLEAR ENERGY, SCIENCE AND TECHNOLOGY
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Argonne National Laboratory (West)	●	●	2nd Quarter CY04	2nd Quarter CY04			
Idaho National Engineering and Environmental Laboratory	●	●	●	●	●	●	●

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by NE-70, December 2003

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Yucca Mountain Geologic Repository Project	2nd Quarter CY04						

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by RW-20E, December, 2003

OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
National Renewable Energy Laboratory							

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by GFO, December 2003

OFFICE OF LEGACY MANAGEMENT
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Grand Junction Office							

* Proposed Federal (Site-Level) EMS Metrics

● Documented

POWER ADMINISTRATIONS
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Bonneville Power Administration	●	●	●	●			
Southwestern Power Administration	●	1st Quarter CY04	●	●			
Western Area Power Administration	●	●	●				

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by BPA/SBA/WAPA, December 2003

NATIONAL NUCLEAR SECURITY ADMINISTRATION
EMS IMPLEMENTATION STATUS

	FY03 Federal Scorecard			FY04 Federal Scorecard*		FY05 Federal Scorecard*	
	Site EMS Policy Statement Issued (need not be a stand-alone document)	EMS Implementation Training Provided (to personnel establishing system)	Significant Environmental Aspects Identified	Measurable Environmental Objectives and Targets Established	EMS Awareness Training Program Established	All EMS Procedures Established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review)	EMS In-Place; Self Declaration Protocol Completed or Third Party Certification/Recognition Obtained (i.e., ISO 14001 or National Environmental Performance Track)
Bettis Atomic Power Laboratory	●	●	●				
Kansas City Plant	●	●	●	●	●	●	●
Knolls Atomic Power Laboratory (NY)	●	●	●				
Lawrence Livermore National Laboratory							
Los Alamos National Laboratory							
Nevada Test Site							
Pantex Plant	●						
Sandia National Laboratories (CA)							
Sandia National Laboratories (NM)							
Savannah River Tritium Facility							
Y-12 National Security Complex							

* Proposed Federal (Site-Level) EMS Metrics

● Documented

Reported by NA-30/NA-117/NA-124, December 2003

EMS IMPLEMENTATION AT DOE SITES
(List of Sites and Programs Responsible for EMS Implementation)

Office of Environmental Management
POC: lawrence.bailey@hq.doe.gov, EM-3
- East Tennessee Technology Park
- Office of River Protection
- Richland
- Paducah Site
- Portsmouth Gaseous Diffusion Plant
- Savannah River Site
- West Valley Demonstration Project
- Fernald Environmental Management Project
- Mound Site/Miamisburg Closure Project
- Rocky Flats Environmental Technology Site Closure Project
- Waste Isolation Pilot Plant

Office of Fossil Energy
POC: craig.zamuda@hq.doe.gov, FE-7
- National Energy Technology Laboratory (MGN/PGH)
- National Petroleum Technology Office
- Albany Research Center
- Strategic Petroleum Reserve
- Naval Petroleum and Oil Shale Reserves CO/UT/WY

National Nuclear Safety Administration
POC: robert.peterson@nnsa.doe.gov, NA-117
- Sandia National Laboratories (NM)
- Sandia National Laboratories (CA)
- Los Alamos National Laboratory
- Lawrence Livermore National Laboratory
- Nevada Test Site

POC: samuel.johnson@nnsa.doe.gov, NA-124
- Pantex Plant
- Y-12 Plant
- Kansas City Plant
- Savannah River Tritium Facility

POC: DenkoAR@NAVSEA.NAVY.MIL, NA-30
- Bettis Atomic Power Laboratory
- Knolls Atomic Power Laboratory (NY)

Office of Nuclear Energy, Science and Technology
POC: rajendra.sharma@hq.doe.gov, NE-70; Alternate: mark.janaskie@hq.doe.gov, NE-70
- Idaho National Engineering and Environmental Laboratory
- Argonne National Laboratory (West)

Office of Science
POC: sat.goel@science.doe.gov, SC-83

- Ames National Laboratory
- Argonne National Laboratory (East)
- Brookhaven National Laboratory
- Fermi National Accelerator Laboratory
- Lawrence Berkeley National Laboratory
- Oak Ridge National Laboratory/Oak Ridge Institute for Science and Education
- Thomas Jefferson National Accelerator Laboratory
- Pacific Northwest National Laboratory
- Princeton Plasma Physics Laboratory
- Stanford Linear Accelerator Center

Office of Energy Efficiency and Renewable Energy
POC: roselle.drahushak-crow@go.doe.gov, Golden Field Office

- National Renewable Energy Laboratory

Office of Civilian Radioactive Waste Management
POC: dong.kim@rw.doe.gov, RW-20E

- Yucca Mountain Geologic Repository Project

Power Administrations

- Bonneville Power Administration
  POC: Steve Sander srsander@bpa.gov, Alternate: James Meyer jrmeyer@bpa.gov
- Southwestern Power Administration
  POC: darlene.low@swpa.gov
- Western Area Power Administration
  POC: Jim Hartman hartman@wapa.gov

Office of Legacy Management
POC: richard.bush@netl.doe.gov, LM-50

- Grand Junction

EMS IMPLEMENTATION STATUS REPORTING

I. Overview

The requirement for DOE sites to implement Environmental Management Systems (EMSs) as part of their Integrated Safety Management Systems was established in February 2001 (DOE N 450.4, later superceded by DOE O 450.1). Several DOE sites have achieved this, many others have made significant progress toward this goal.

The process of implementing an environmental management system, or -- in the case of DOE sites -- ensuring that the elements of an EMS are fully integrated into the site ISM, involves many steps.

- A generic set of key EMS elements is identified in EPA guidance at http://www.epa.gov/ems/info/sme4.htm, and in Chapter 2 "Getting Started" of the *EMS Primer for Federal Facilities*, issued by DOE and EPA at http://tis.eh.doe.gov/oepa/guidance/ems/emsprimer.pdf .
- Specific EMS elements required by DOE O 450.1 are identified in Attachment 3 of DOE G 450.1-1, issued for use on October 24, 2003. http://tis.eh.doe.gov/oepa/guidance/ems/emstraining.pdf

A few key metrics were identified for the Federal Government EMS Scorecard

Executive Order 13148 (implemented within DOE by DOE O 450l.1) establishes a date of December 31, 2005, for all appropriate federal sites to implement an EMS. The Office of the Federal Environmental Executive (OFEE) (within the Council on Environmental Quality) prepares a scorecard each year, to measure agency progress toward this goal. The OFEE has identified a several key metrics for Federal agencies to report.

To support DOE's reporting requirements under E.O. 13148 and DOE O 450.1, DOE has adopted these metrics. This information will also assist DOE leadership in assessing how the Department is implementing its responsibility to implement EMS, and how program offices are implementing their responsibility to ensure that sites under their purview have implemented EMS by December 31, 2005.

II. Key EMS Metrics Identified

The following discussion addresses the site-specific questions (metrics) identified by the OFEE, and references some of the available guidance.

FY03 Metric: Site EMS Policy Statement Issued.

> For DOE, this question means: If a site has an ISMS, has it signed and issued a site EMS policy statement? This need not be a "stand-alone" document; for example, it may be part of an integrated policy statement for the site environment, safety and health management system. But a generic ISMS policy statement is not likely to meet this criterion. For purposes of the Department's annual E.O. 13148 Report and the OFEE's

Federal agency Scorecard, the policy statement needs to specifically address EMS. The EMS Policy Statement is discussed further in Section 6.1 of DOE G 450.1-1 (issued for use on October 24, 2003 http://tis.eh.doe.gov/oepa/guidance/ems/emstraining.pdf . A general discussion of EMS policy statements is also provided in Chapter 4 of EPA's EMS Guide at http://www.epa.gov/OW-OWM.html/iso14001/ems2001final.pdf .

FY03 Metric: EMS implementation training provided to the personnel establishing EMS.

For DOE, this question means: If a site has an ISMS, has it conducted EMS training for the staff who will ensure the integration of EMS elements into the ISMS. This presupposes that top management has endorsed the process, and has identified the staff responsible for integrating EMS elements into the ISMS. These initial steps are described in Section 7 of DOE G 450.1-1 (issued for use on October 24, 2003). They are also described in Section 3 of the EPA EMS Guide at http://www.epa.gov/OW-OWM.html/iso14001/ems2001final.pdf , as well as Chapter 2 of the DOE/EPA Primer at http://tis.eh.doe.gov/oepa/guidance/ems/emsprimer.pdf .

Sites need to identify for themselves what training is necessary for the staff responsible for integrating EMS elements into ISMS to be successful at that task. It would likely include somewhat detailed training about EMS elements and documenting implementation of EMS elements.

Training has been offered by Regional EPA offices, as well as by private vendors and consultants. EMS implementation training materials have been made available by EPA.

FY03 Metric: Significant environmental aspects Identified.

For DOE, this question means: If a site has an ISMS, has the site conducted a process to identify the environmental aspects of their activities, and identified which of these aspects are significant? This process results in a documented list of significant environmental aspects, which is used to establish environmental objectives and targets, and to establish appropriate hazard controls for any activities which could result in environmental impacts of concern. The process of identifying significant environmental aspects is described Section 4 of the EPA Guide at http://www.epa.gov/OW-OWM.html/iso14001/ems2001final.pdf .

FY04 Metric (draft): Measurable environmental objectives and targets established.

Once the significant environmental aspects of the site's activities are identified, the site is to establish (and document) measurable environmental objectives and targets. Objectives and targets are to be reflected in the annual goals and performance measures established as part of the ISMS annual review. Guidance on establishing environmental objectives and targets is included in Section 4 of the EPA guide at http://www.epa.gov/OW-OWM.html/iso14001/ems2001final.pdf .

FY04 Metric (draft): EMS awareness training program established.

When ISMS was implemented at sites, training was provided to all workers about the management system, and how it affects them. Once the ISMS (procedures, and system description document) is modified to included EMS elements, such awareness training is again appropriate. Training is discussed in Section 4 of the EPA Guide at http://www.epa.gov/OW-OWM.html/iso14001/ems2001final.pdf . The purpose of the awareness training is to inform all employees of the revised management system, and how it affects them.

FY05 Metric (draft): All EMS procedures established (e.g., objectives and targets, aspects and impacts, corrective action, self-assessment, management review).

For DOE sites, this means that

- existing ISMS documents and procedures have been systematically reviewed and revised to ensure that they fully and explicitly incorporate EMS elements pursuant to DOE O 450.1;
- any new procedures (such as identification and documentation of significant environmental aspects, and establishing environmental objectives and targets) are complete;
- these changes are reflected in a revised ISM system description document (per DOE O 450.1).

FY05 Metric (draft): Appropriate facilities have EMS in place, and have completed the Self Declaration Protocol in accordance with agency policy or have obtained third-party certification.

For DOE sites, this means that they have

- obtained third-party registration of their EMS (several DOE sites are registered as conforming to the ISO 14001 Standard), OR
- been recognized by the EPA National Environmental Performance Track (NEPT) as having implemented an effective EMS, OR
- they have undergone a review, demonstrating to the satisfaction of the DOE Contracting Official/ Program Official, that the EMS elements required by DOE O 450.1 are in place and effectively implemented as part of the ISMS (where applicable).

III. Summary

Available guidance, as noted above, outlines generic EMS elements and implementation steps, which need to be adapted to the needs of a specific site. The metrics identified by the OFEE reflect a few key activities which were seen as essential and representative steps along the way. Sites which have developed, or are in the process of developing a systematic process for implementing the requirements of DOE O 450.1, consistent with existing guidance, should have little difficulty knowing when these metrics are achieved.

DOE F 1325.B
(8-89)
EFG (07-90)

United States Government **Department of Energy**

memorandum

DATE: September 2, 2003

REPLY TO ATTN OF: Office of Pollution Prevention and Resource Conservation (EH-43): Traceski: 6-2481

SUBJECT: Line Management Points of Contact for Environment Management Systems Implementation

TO: Distribution

The Department of Energy is committed to implementing environmental management systems as part of the Integrated Safety Management Systems at our sites. I am writing to request that you identify a point of contact in your office who will track and provide information on the status of this commitment at each of your sites.

You are responsible, under DOE Order 450.1, for ensuring that all sites under your purview have implemented the environmental management system requirements of the Order by December 2005. I am responsible under the Order for submitting the Department's progress reports to the Office of Management and Budget, the Council on Environmental Quality, and the Environmental Protection Agency, based on input from departmental elements.

I am requesting that you designate a point of contact to work with my office to provide the information needed to comply with the Department's reporting requirements. This individual would maintain and provide information on the current status of implementation of the environmental management systems at each of your sites. Please identify the point of contact for your organization to Mr. Thomas Traceski, Director of the Office of Pollution Prevention and Resource Conservation (EH-43). Mr. Traceski can be reached via e-mail at thomas.traceski@eh.doe.gov or by telephone at (202) 586-6374.

Secretary Abraham, in his "Earth Day 2003" memorandum, recognized the President's support for implementing environmental management systems at Federal facilities, and stated his commitment to the goal of having environmental management systems in place at all major DOE sites by the end of 2005 (attachment). The resource commitment needed to implement environmental management systems throughout the complex over the next two years is a sound investment that will improve environmental protection in the Department, capitalizing on cost-effective compliance and pollution prevention to reduce future liabilities. I look forward to working with you to achieve this goal.

Beverly A. Cook
Assistant Secretary
Environment, Safety and Health

Attachment

DISTRIBUTION:

Program Secretarial Officers:

Glenn Podonski, Director, Office of Independent Oversight and Performance Assurance
Jessie Roberson, Assistant Secretary for Office of Environmental Management
David Garman, Assistant Secretary for Office of Energy Efficiency and Renewable Energy
Margaret Chu, Director, Office of Civilian Radioactive Waste Management
Michael Smith, Assistant Secretary for Fossil Energy
William Magwood, Director, Office of Nuclear Energy, Science and Technology
Raymond Orbach, Director, Office of Science
Michael Owen, Director, Office of Worker and Community Transition

Administration for Power Marketing Administrations:

Stephen Wright, Administrator, Bonneville Power Administration
Charles Borchardt, Administrator, Southeastern Power Administration
Michael Diehl, Administrator, Southwestern Power Administration
Michael Hacskaylo, Administrator, Western Area Power Administration

National Nuclear Security Administration

Everett Beckner, Deputy Administrator, National Nuclear Security Administration

The Secetary of Energy
Washington, DC 20585
April 21, 2003

MEMORANDUM FOR HEADS OF DEPARTMENTAL ELEMENTS

FROM: SPENCER ABRAHAM

SUBJECT: Earth Day 2003

The Department of Energy (DOE) is committed to protecting the environment while conducting its important national security and energy-related missions. In support of this commitment, we are implementing formal environmental management systems at our facilities thereby reducing the amount of waste we produce and release into the environment.

Environmental Management Systems

President George W. Bush supports the implementation of environmental management systems at Federal facilities, and his Performance Management Agenda recognizes the importance of such systems in the effective and efficient operation of the Federal government. An environmental management system provides a systematic framework to identify and address the environmental impacts of our work, ensures compliance with regulatory requirements, and determines opportunities for further and continual improvement.

At present, DOE has seven major facilities which have been registered--by independent third-party registrars--as conforming to ISO 14001, the international consensus standard for environmental management systems. Three of these facilities, as well as two additional ones, are recognized by the Environmental Protection Agency, under the National Environmental Performance Track program, for their environmental management system and sustained record of environmental performance.

It is my goal, consistent with the requirements of Executive Order 13148, *Greening the Government Through Leadership in Environmental Management*, to have environmental management systems in place at all major DOE facilities by the end of 2005. The Department recently updated our Order defining DOE's environmental protection program. The new DOE Order 450.1 implements Executive Order 13148 by requiring environmental management systems at DOE facilities as part of their integrated safety management systems.

Pollution Prevention

Pollution prevention is a fundamental aspect of an effective environmental management system and the Department's approach to protecting the environment, worker safety, and the public. Environmental management systems required by DOE Order 450.1 must provide for the systematic planning, execution, and evaluation of departmental programs for pollution prevention.

We have made notable progress in pollution prevention to date with many DOE facilities being recognized for their leadership. In 2002, DOE was the recipient of four White House Closing-the-Circle Awards recognizing the Department's success in pollution prevention. For 2003, I am pleased to announce that ten DOE facilities have won DOE pollution prevention awards for 17 initiatives ranging from waste minimization and recycling to environmental sustainability in building design and construction, and "green" procurement of environmentally preferable products and services. Each of these DOE award-winning initiatives has been entered into the 2003 White House Closing-the-Circle competition.

Several years ago, the Department set ambitious goals for reducing our generation of various types of waste by 2005. We have made tremendous strides toward reaching these goals, and while the Department's commitment to pollution prevention and our demonstration of environmental leadership are evident, opportunities for further improvements need to be pursued. Accordingly, I am charging all Department programs to use their ingenuity to reinvigorate their efforts towards meeting DOE's 2005 pollution prevention goals for reducing the generation of waste and release of pollutants into the environment. These goals apply to waste from routine operations. In addition, as we clean up our sites, we need to actively seek opportunities to minimize the amount of waste resulting from our cleanup, stabilization, and decommissioning activities.

Not only does pollution prevention pay for itself by reducing the life-cycle costs of our operations, but it is sustained by DOE's unique capability for innovation and continuous improvement.

The Department is already a leader in Greening the Federal Government. I intend for DOE to continue this leadership in the future.