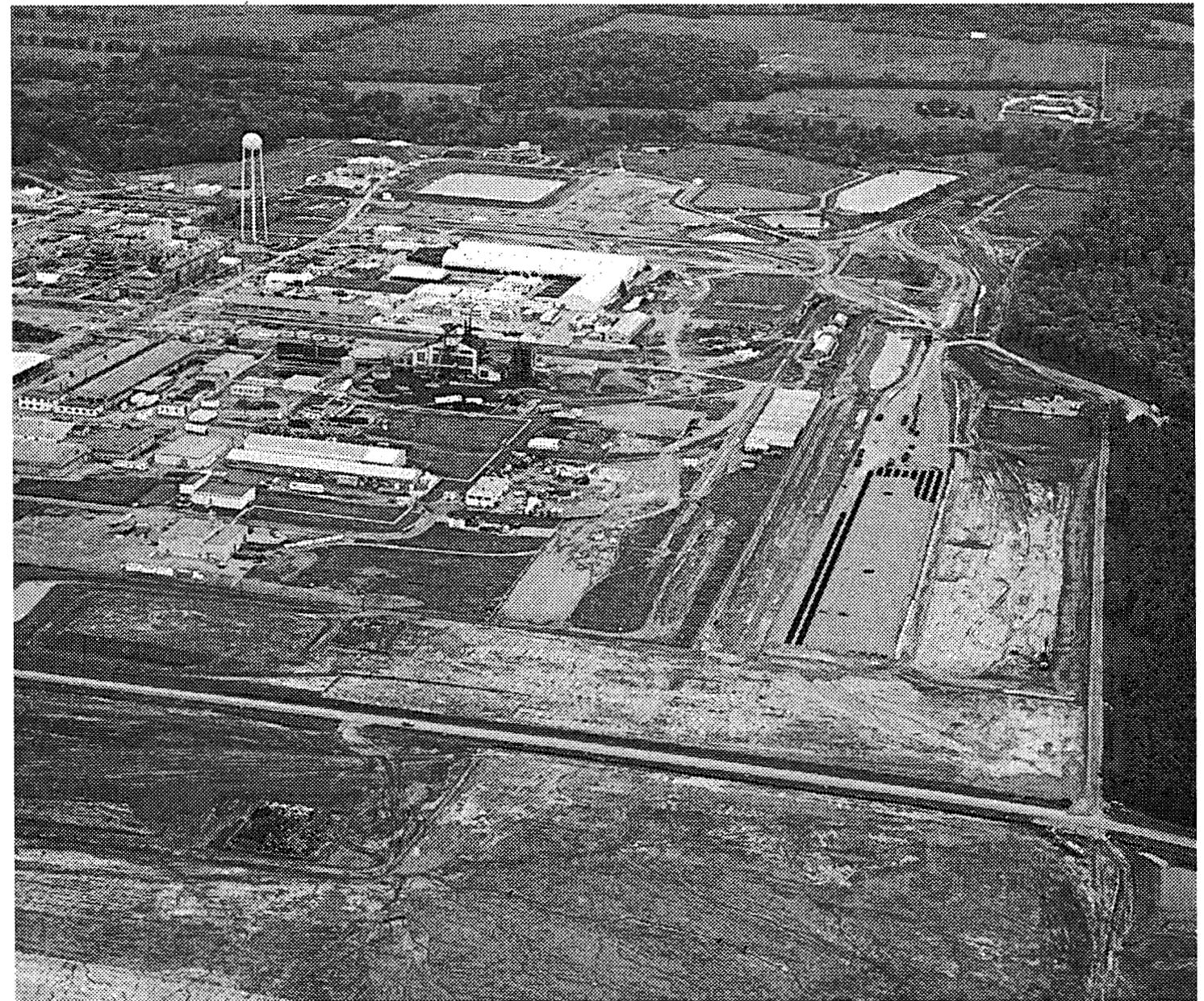


fernald

# Report

JULY 1997



*From this east-to-west aerial view of the Fernald Environmental Management Project, dramatic changes in the east field can be seen. The North Access Road has been removed, and the land in the foreground is the future location of the On-Site Disposal Facility. Initial construction of the OSDF will be completed in September 1997 (6600-174).*

message from

# Jack Craig

## On-Site Disposal Facility Now Under Construction

The first of eight planned waste storage cells that will comprise the FEMP's On-Site Disposal Facility (OSDF) is now under construction as of July 1. The Phase 1 OSDF subcontractor, Petro Environmental Technologies Inc., is clearing the northwest corner of the OSDF footprint, installing run-on diversion berms and removing the North Access Road. Village Building Services is installing piping for the OSDF's leachate conveyance system and building the haul road to transport slightly contaminated waste from the FEMP's southern waste units for placement in the OSDF. Barrett Paving Inc. has begun work on the relocated North Access Road.



The Soil Certification Report for the portion of the OSDF currently under construction was submitted to the U.S. Environmental Protection Agency (EPA) and Ohio EPA on June 30. This report is the culmination of an intensive effort involving soil sampling and analyses, excavation and grading activities, to ensure soils within the current OSDF construction area have met final remedial requirements. This was an important consideration because neither the regulatory agencies nor DOE would permit construction of a permanent facility on top of contaminated soils.

The OSDF project is on schedule for initial waste to be placed in the first cell by March 1998, per our schedule agreement with U.S. EPA. The OSDF, which utilizes clay and synthetic liners, is designed to ensure permanent protection of the Great Miami Aquifer. Procedures have been established for monitoring its long-term effectiveness, and this data will be provided to all interested stakeholders as it becomes available.

It's worth mentioning that all three OSDF subcontractors — Petro Environmental, Village Builders and Barrett Paving — have headquarters in southwest Ohio. The DOE-FEMP Office and Fluor Daniel Fernald are committed to conducting business with qualified local companies for goods and services to the greatest extent possible.

I sincerely thank all of the people who have been involved in getting the OSDF project to where it is today.

*Jack Craig, Director  
DOE-FEMP Office*

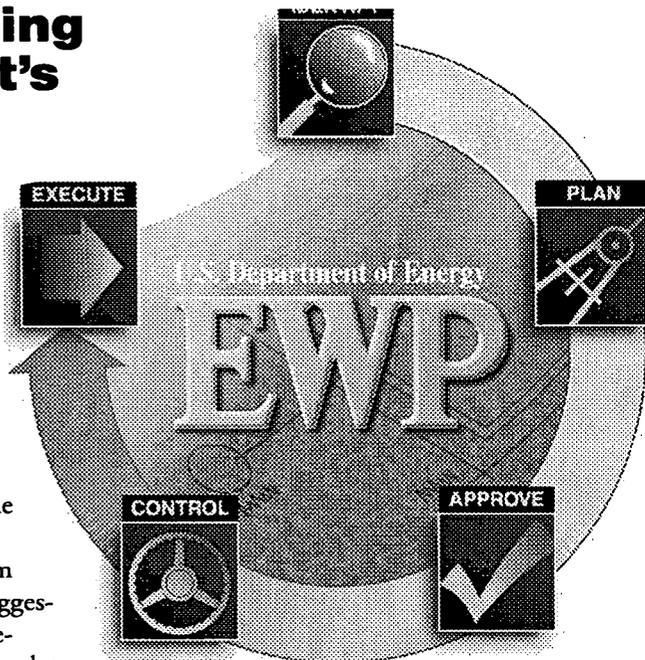
## DOE's Enhanced Work Planning Program Wins Vice President's "Hammer" Award

DOE's Enhanced Work Planning Program has won the "Hammer Award," founded by Vice President Al Gore to recognize employee groups that have made extraordinary progress and improvements in reinventing government, clearly demonstrating support of President Bill Clinton's National Performance Review principles. These principles include putting customers first, cutting red tape, empowering employees and "getting back to basics."

DOE's Enhanced Work Planning initiative completely changes how DOE facilities plan and perform maintenance, cleanup operations, waste management, and startup of new operations. The net impact is that substantially more work is being performed in less time with reduced resources. An example of Enhanced Work Planning at the FEMP was demonstrated during the recently completed Thorium Overpacking Project, during which employees in the field offered suggestions for improvement, and FEMP management responded by implementing the recommendations. As a result, the project was safely completed ahead of schedule and under budget.

"I find Enhanced Work Planning to be an innovative and exciting program," said Jim Trujillo, Fluor Daniel Fernald Enhanced Work Planning Program project coach. "It is a new approach to work management that utilizes the skill and knowledge of professionals from organizations such as the craft or worker, who provides input to the planning and scheduling of work. It also eliminates redundancies while improving employee moral, productivity and safety awareness."

In August, a ceremony will be held at the Enhanced Work Planning National Conference in Idaho. The Hammer Award will be presented, and individual team members will each receive a lapel pin and a certificate signed by Gore. A celebration to recognize FEMP Enhanced Work Planning team members is also being planned.



*Below: Workers have begun replacing existing wooden beams with steel girders on the Okeana trestle, which is 671 feet long and 100 feet high (6349-880).*

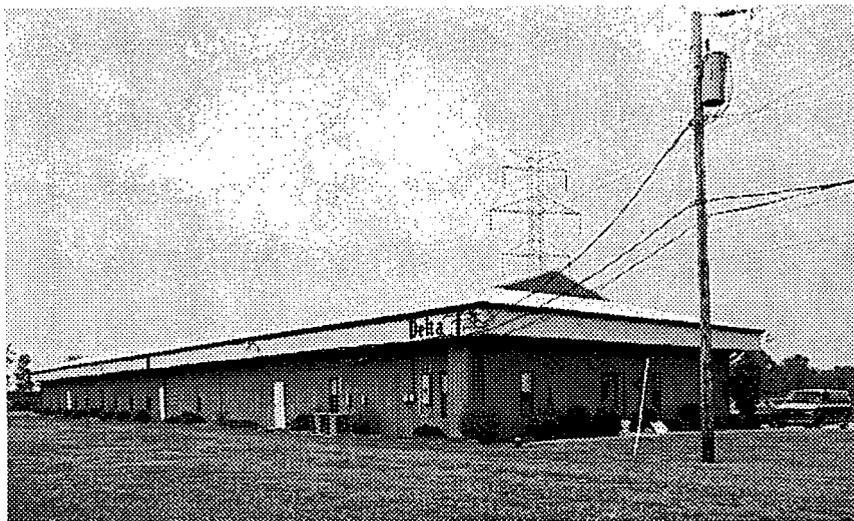
## Okeana Trestle Upgrade Project On Schedule

The work to upgrade the Okeana train trestle, located approximately seven miles from the FEMP, is progressing on schedule and should be completed this fall. The trestle, one of the oldest in Ohio, is being upgraded to accommodate an increase in rail traffic that will occur during the cleanup of the FEMP waste pits. Beginning in March 1999, Fernald will ship approximately 780,000 tons of low-level radioactive waste from the pits to Envirocare, in Utah, for disposal.

"We're very pleased with the progress we're making," said Fluor Daniel Fernald construction manager Warren Hooper. "This project is a collaborative effort by CSXT, Midwest Foundation and the FEMP. Each organization brings something different to the table, and we all benefit from each other's expertise." The waste pit cleanup is scheduled to be completed by 2005.



## FEMP Public Environmental Information Center Relocates to Delta Building



The Public Environmental Information Center (PEIC) has relocated to the Delta Building, 10995 Hamilton-Cleves Highway, Harrison, just north of its former location in the JAMTEK Building. The PEIC's new phone numbers are 513-648-7480 and 513-648-7481 (fax: 513-648-7490).

The PEIC was created to provide easy public access to documents about the FEMP cleanup activities, including: the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record, which documents the remedial investigation/feasibility study; and post-record-of-decision files, which document the remedial design/remedial action. The PEIC also houses the "Public Reading

Room," which contains information from newspaper clippings to historical photos of the FEMP.

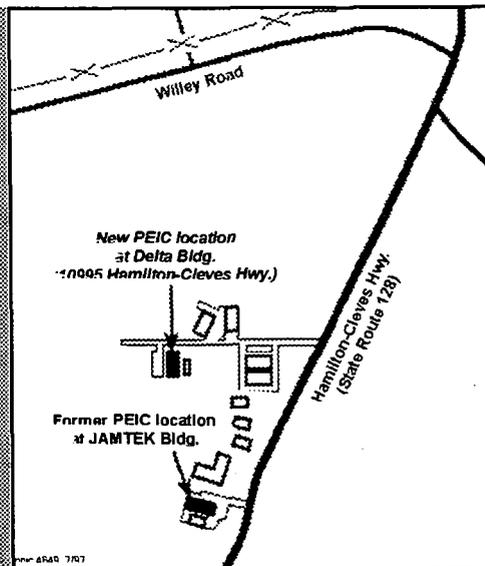
"It's going to be more like a 'library' atmosphere," said Rene Eichhold, a member of the PEIC staff. "There's more room for the customers," she said, adding the PEIC receives approximately 30 visitors each week. The PEIC's new location includes a conference room, which is available to the public or FEMP employees during regular business hours; a copier room, where visitors can make their own copies of PEIC information; and a video room. After browsing the PEIC's library of more than 200 videos, visitors can watch them in a special room set up with a videocassette recorder and monitor. "It's a nice, comfortable room that you can use to view the videos privately," Eichhold said. In addition, the PEIC has available two computer workstations which the public can use to access the Internet and real-time radon monitoring data.

During the latter part of July, the Fernald Community Reuse Organization and Fernald Citizens Advisory Board (formerly task force) will be moving their offices into a portion of the JAMTEK Building previously occupied by the PEIC. Check the "Stakeholders" section of the FEMP Web site (<http://www.fernald.gov>) for more information about the PEIC, Fernald Community Reuse Organization and the Fernald Citizens Advisory Board.

*The PEIC has relocated to the Delta Building, 10995 Hamilton-Cleves Highway, Harrison, just north of its former location in the JAMTEK Building (6625-3).*

### PEIC Operating Hours

**Monday, 7:30 a.m. - 7 p.m.**  
**Tuesday, 7:30 a.m. - 5 p.m.**  
**Wednesday, 7:30 a.m. - 5 p.m.**  
**Thursday, 7:30 a.m. - 5 p.m.**  
**Friday, 7:30 a.m. - 4:30 p.m.**



## Fluor Daniel Fernald Implements New Central Safety Committee

In June 1997, DOE and Fluor Daniel Fernald implemented a new safety committee — the Central Safety Committee — which will:

- determine and approve site safety goals and policies;
- establish broad safety goals and delegate responsibilities to line management, the Safety and Health organization and other existing safety committees, including the Safety First Team, the 25-member Safety Team and the President's Safety Committee; and
- resolve safety issues when other existing mechanisms have been exhausted or other mechanisms don't exist.

For more information about the Central Safety Committee, visit "Safety" section of the FEMP Web site (<http://www.fernald.gov>).

### Central Safety Committee members

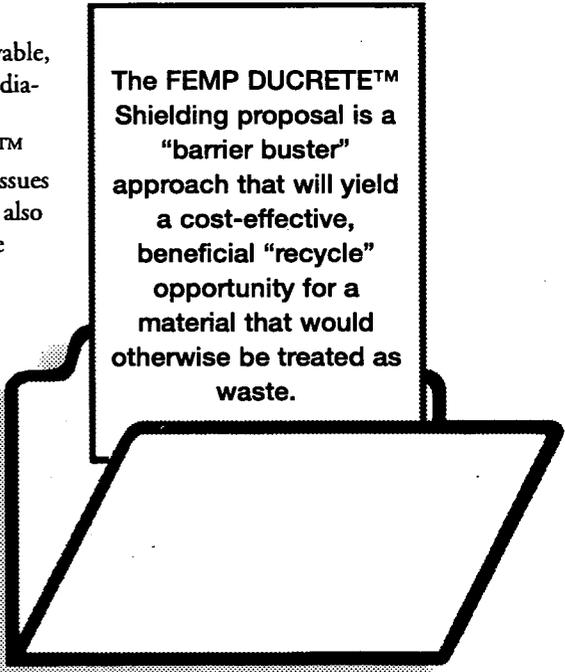
Gene Branham, *Fernald Atomic Trades and Labor Council (FAT&LC)*;  
 John Bradburne, *Fluor Daniel Fernald*;  
 Jack Craig, *DOE-FEMP Office*;  
 Lou Doll, *Greater Cincinnati Building Construction Trades Council*;  
 Ralph Hennard, *International Guards Union of America*;  
 Robert Schwab, *FAT&LC*;  
 Michael Townsend, *Fluor Daniel Fernald*;  
 Sharon Cornwell, *technical support*; and  
 Stu Hinnefeld, *technical support*.

## DUCRETE™ Technology to be Deployed at the FEMP Under New Program

In June, DOE Assistant Secretary Al Alm announced selection of 89 technology proposals — including the four submitted by the FEMP — for the Technology Deployment Initiative (TDI). DOE developed TDI to stimulate use of readily deployable, innovative technology that could be applied quickly to accelerate environmental remediation and save money.

DUCRETE™ Shielding was among the FEMP technologies selected. DUCRETE™ Shielding offers a comprehensive path toward relief from cost, safety, and regulatory issues associated with the storage and/or disposition of large depleted uranium stockpiles. It also addresses the need for shielded containers for waste storage and disposal of radioactive materials. A provision of the proposal is to use depleted uranium to make shielded containers for the FEMP Silos Project. Containers made with DUCRETE™ have superior neutron- and gamma-shielding properties and can be formed with walls of smaller cross-section than what is feasible with conventional materials. This will result in savings on volume-based burial costs, as well as disposal of the excess uranium materials in an environmentally responsible manner. As proposed, the project could result in the transformation of 9,000 tons of stored uranium oxide into at least 2,000 boxes for the FEMP.

Project-specific deployment plans will not be developed until Congress completes its review of DOE's 1998 fiscal year budget, which includes funding requests for the TDI. The program for fiscal year 1998 has a requested budget of \$50 million. Descriptions of each FEMP technology proposal will be featured in future issues of the Fernald Report and in the "Technology Programs" section of the FEMP Web site (<http://www.fernald.gov>).



The FEMP DUCRETE™ Shielding proposal is a "barrier buster" approach that will yield a cost-effective, beneficial "recycle" opportunity for a material that would otherwise be treated as waste.

## Third Silos Project Workshop For FEMP Public Is July 29

The third in a series of public workshops focusing on Silo 3 remediation is scheduled for July 29. The focus of the workshop will be to present the fundamental principles and DOE's tentative proposal concerning Silo 3 remediation alternatives. DOE would like stakeholders' feedback regarding development of the ESD and additional information needs of the public. Fluor Daniel Fernald has proposed to eliminate vitrification as a treatment option for Silo 3 due to implementability, short-term effectiveness and cost. The workshop will be held at 7 p.m. in the Alpha Building (Classroom D), 10967 Hamilton-Cleves Highway, Harrison.



*Fluor Daniel Fernald has proposed to eliminate vitrification as a treatment option for Silo 3, due to implementability, short-term effectiveness and cost (6600-126).*

## Oversized Material Disposition in On-Site Disposal Facility Discussed June 24

On June 24, 30 people attended a workshop to learn more about the placement of oversized materials in the OSDF. The oversized material originally considered for placement in the OSDF is estimated to be 10,000 to 20,000 cubic yards -- less than 1 percent of the total volume. (Soil will take up 86 percent of the OSDF; debris will use about 13 percent.) Ninety-five percent (9,500 - 19,000 cubic yards) of the one percent being considered for placement will either be shipped off site or will meet the physical waste acceptance criteria (i.e., will be size-reduced prior to placement in the OSDF). The remaining 5 percent (500 - 1,000 cubic yards) of the one percent of oversized material being considered for placement in the OSDF was discussed with stakeholders. This material consists of approximately 40 mill rolls, about eight mill stands housings, and eight lathe beds.

According to Rudy Bonaparte, GeoSyntec Consultants, a study showed oversized objects will have an insignificant affect on OSDF slope stability and foundation settlement, nor will they increase stress to the liner system. Because the oversized materials will be solid metal, there will no potential for collapse. In addition, Bonaparte said the oversized materials will be encapsulated by at least four-foot thick protective layers which will eliminate puncturing the liner and cover system components.

	<i>As-Is Placement in OSDF</i>	<i>Disposal at in OSDF after Size Reduction</i>	<i>Disposal at Nevada Test Site</i>
40 mill rolls	\$25,000	\$40,000	\$69,000
8 mill stands	\$14,000	\$23,000	\$69,000
8 machine stands	22,000	\$36,000	\$23,000

According to Dennis Carr, Fluor Daniel Fernald vice president of Soil and Water Projects, extra-length steel beams (about 14,000 pieces), will either be recycled or put in the cell. However, to cut the 18- to 20-foot steel beams in half to meet the current OSDF waste acceptance criteria, will require \$1.6 million. Based on input received, DOE and Fluor Daniel Fernald indicated they will move forward with the revision of the necessary documents to gain EPA approval to place oversized material (i.e., mill stands, I-beams, etc.) in the OSDF.

## Public Comment Period on Accelerated Cleanup Plans Ends Sept. 9

U.S. Department of Energy

**ACCELERATING CLEANUP:  
FOCUS ON 2006**

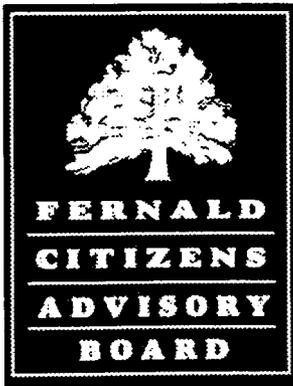
**Discussion Draft**

Twenty-one people attended the public meeting on the *Accelerating Cleanup: Focus on 2006 Discussion Draft* document, including Pete Greenwalt from DOE Ohio Field Office, FRESH and task force representatives, and others from DOE and Fluor Daniel Fernald. Explaining the national plan is not a budget, but a framework, he noted it is based on analysis of two funding levels: \$6 billion versus \$5.5 billion. Greenwalt said FEMP cleanup would be significantly delayed under the \$5.5 billion planning scenario.

Under the \$6 billion planning scenario, FEMP cleanup will be complete by 2005, except for the Silos. Five final records of decision have been approved. Cleanup involves construction and operation of the on-site disposal facility; decontamination and decommissioning of all facilities, soil excavation, and the transfer of wastes to the appropriate disposal facility. The remaining nuclear materials (uranium, enriched uranium, and depleted uranium) will be removed by fiscal year 1999. Groundwater remediation is expected to be complete and the aquifer restored by 2005. Activities that will be performed after fiscal year 2006 include closure of the on-site disposal facility, finalization and closure of waste management operations and facilities, and required groundwater monitoring.

## Stakeholders Encouraged to Comment

The 90-day public comment period on the *Accelerating Cleanup: Focus on 2006 Discussion Draft* document ends Sept. 9. Stakeholders may submit comments to DOE-FEMP Public Affairs Officer Gary Stegner, 513-648-3153. Throughout the summer, DOE will hold workshops to help stakeholders understand and comment on the draft document, which is available at the PEIC and on DOE Environmental Management's Web site (<http://www.em.doe.gov/acc2006>).



## Task Force Now "Fernald Citizens Advisory Board"

Approximately 35 people attended the July 9 Fernald Citizens Task Force meeting, when it was decided the group would be known as the "Fernald Citizens Advisory Board (CAB)" to better identify and align itself with the other site-specific advisory boards in the DOE complex. Also at the meeting, member Jim Bierer was nominated to serve as vice chair of the Fernald CAB. In addition, the group accepted the resignation of member Gloria McKinley. The CAB has several membership issues to tackle in coming months. Open "slots" left by former members McKinley and Guy Guckenberger, as well as various open committee positions, will be filled.

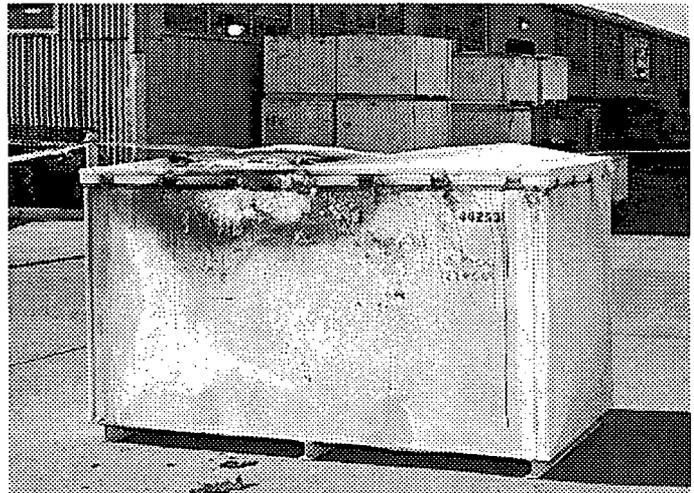
## FEMP Temporarily Suspends Shipments to Nevada

The overpressurization of a low-level radioactive waste shipping container (white metal box) on May 22, 1997, resulted in the FEMP voluntarily suspending further shipments of residue waste to the Nevada Test Site (NTS) pending an investigation of the incident.

Based on this incident, DOE-Nevada representatives visited the FEMP to evaluate the incident. The evaluation indicated the FEMP Low-Level Waste Program was technically sound; however, the two corrective action requests were issued for programmatic concerns identified during the visit.

On July 1, DOE-Nevada Site Manager Gerald Johnson asked the FEMP to continue suspension of residue waste shipments until the two corrective action requests can be closed and until the Radioactive Waste Acceptance Program team is able to complete its programmatic annual assessment of the FEMP in October.

The temporary suspension is expected to have minimal impact on the FEMP waste shipping program.



In May 1997, this white metal box, which contained five 55-gallon drums of low-level radioactive waste awaiting shipment to the Nevada Test Site became overpressurized (6591-29).

## New Protocol Being Developed to Prevent Overpressurization Incidents

On June 19, the team formed to investigate the root cause of the recent overpressurization of a white metal box containing low-level radioactive waste issued its final report. Lack of procedures for evaluating potential reactivity resulting from packaging different waste materials in a single shipping container was determined to be the root cause of the incident. A new protocol is being developed to prevent recurrence. In the meantime, packaging is limited to waste types within a single material evaluation form.

**Netscape: FEMP**

Location: <http://www.fernald.gov/>

What's New? What's Cool? Destinations Net Search People Software

**Fernald Environmental Management Project**

*FEMP Lessons Learned Program*

**Purpose**  
The Fluor Daniel Fernald Sitewide Lessons Learned Program provides a mechanism for the communication of lessons learned information to potential users, both at the Fernald Environmental Management Project (FEMP) and throughout the DOE complex. Sources of these lessons include incidents at the FEMP, other sites throughout the U. S. Department of Energy (DOE) complex, and from the public sector. The program is designed to help prevent recurrences of negative experiences, highlight good practices, and spotlight innovative ways to solve problems or perform work safely, efficiently and cost effectively.

**Scope**  
The Site wide Lessons Learned Program applies to all Fluor Daniel Fernald organizations, and should also be utilized by subcontractors performing work at the FEMP. The Operations Assurance Department

**FERNALD**  
Environmental Management Project

**Fluor Corp.**

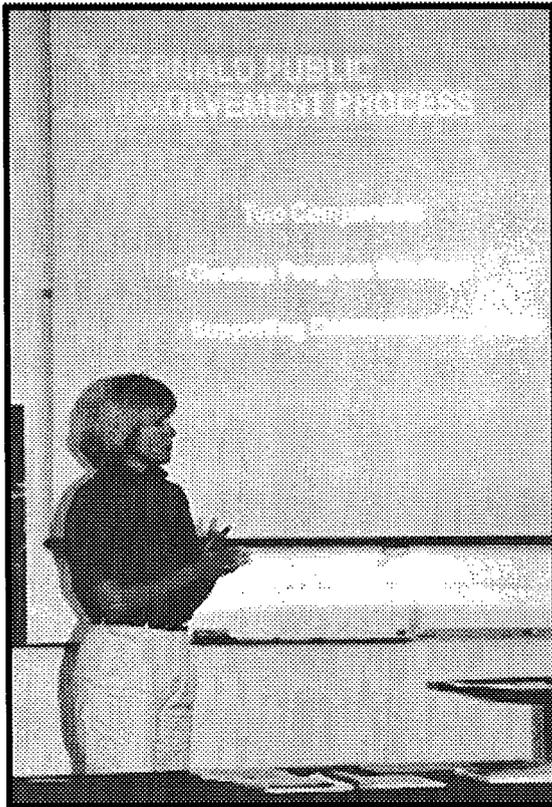
**U.S. Dept. of Energy**

**Fluor Daniel Fernald**

## FEMP "Lessons Learned" on Internet

The FEMP's Lessons Learned group has posted information in the "Safety" section of the FEMP Internet Web site (<http://www.fernald.gov/>). The Fluor Daniel Fernald Sitewide Lessons Learned Program provides a mechanism for communication of lessons learned information to potential users at the FEMP and throughout the DOE complex. Sources of these lessons include incidents that have occurred at the FEMP, other sites throughout the DOE complex, and from the public sector.

The program is designed to help prevent recurrences of negative experiences, highlight good practices, and spotlight innovative ways to solve problems or perform work safely, efficiently and cost-effectively. "The sites can share information among themselves to better achieve remediation goals or performance goals. Instead of reinventing the wheel, we can share information. I'm anticipating quite a bit of feedback," said FEMP Lessons Learned Team Leader Mike Bishop.



*Fluor Daniel Fernald Public Affairs Director Tricia Thompson proposes the FEMP's new public involvement strategy during the July 14 workshop (6628-16).*

## Stakeholders Agree to New Public Involvement Strategy

On July 14, DOE and Fluor Daniel Fernald held a workshop to propose a new strategy to integrate stakeholder input into the public involvement planning process. Thirty-seven people attended. During the meeting, Fluor Daniel Fernald Public Affairs Director Tricia Thompson explained the new strategy, which is designed to ease the burden of so many monthly meetings and to provide opportunities for stakeholders to join the planning process.

Under the new approach, the FEMP will hold monthly "Cleanup Progress Briefings" with interested stakeholders. Each Cleanup Progress Briefing will include:

- a "big-picture" review of current and upcoming cleanup actions, design plans and field work for each project;
- a discussion on a specific, timely topic of interest;
- an opportunity for stakeholders to voice concerns, issues and interests with site decision makers; and,
- an opportunity to shape FEMP public involvement initiatives.

The briefings will be held on the second Tuesday of every month, beginning at 6 p.m., in the Alpha Building (Classroom D), 10967 Hamilton-Cleves Highway, Harrison. The first briefing will be Tuesday, Sept. 9.

## Two Public Meetings to be Held in August

### Aug. 7 "Soil and Water Projects" Public Workshop

On Aug. 7, DOE will hold a public workshop to discuss "Soil and Water Projects." The meeting will begin at 7 p.m., in the Alpha Building (Classroom B), 10967 Hamilton-Cleves Highway, Harrison.

Meeting topics will include:

- groundwater strategy;
- groundwater/wastewater treatment; and
- an update on soil remediation activities.

### Aug. 12 DOE Community Meeting

On Aug. 12, DOE will hold a community meeting at the Plantation, 9660 Dry Fork Road (off of I-74), Harrison, to discuss FEMP cleanup progress, the FEMP's fiscal year 1998 budget and site priorities. Beginning at 6:30 p.m., FEMP personnel will be available for discussions with members of the public. The actual meeting will begin at 7 p.m.

## Fernald Community Reuse Organization Seeks Support Services

The Fernald Community Reuse Organization (CRO) has canceled its Aug. 5 meeting to concentrate efforts on contracting the services of an economic development professional to assist the CRO in performing its mission under a start-up grant with DOE. The CRO has developed a Request for Proposal (RFP) outlining specific qualifications, work scope and schedule requirements. The CRO will evaluate applicants' bids based on the following specific areas of experience:

- economic development;
- long-range planning;
- process facilitation and dispute resolution;
- grant writing;
- strategic planning.

The contract will require substantial effort from the date of award (Fall 1997) through April 30, 1998. Copies of the RFP are available to interested bidders on the Internet in the CRO's Web site (<http://www.fernald.gov>), "Stakeholder/CRO" section, or by mail.

## Apprenticeship Program Approved; Eight Participants Selected

Based upon seniority and interest, eight apprentices have been chosen to participate in the FEMP's apprenticeship program, which received approval from the state of Ohio on June 18. Two apprentices will serve for four years in each of the following crafts: instrument mechanics, electricians, pipefitters and millwrights. Additional apprentices will be selected as the program matures. "This approval is the culmination of two years of hard work by representatives of DOE, Fluor Daniel Fernald and the Fernald Atomic Trades and Labor Council," said Mike Townsend, apprenticeship committee chair. "These apprenticeships provide our employees with the opportunity to learn a new craft straight from the subject-matter experts. Both the FEMP and our employees will benefit from this program."

### Ross Township Trustees Tour FEMP in June

*The Ross Township*

*Trustees toured the*

*FEMP in June.*

*During their visit,*

*they met with*

*DOE- FEMP*

*Associate Director*

*Glenn Griffiths,*

*middle, and DOE-*

*FEMP Public*

*Information Officer*

*Gary Stegner.*

*During their visit,*

*Griffiths presented*

*an aerial photo of*

*the FEMP to*

*trustees Tom*

*Willsey, right, and*

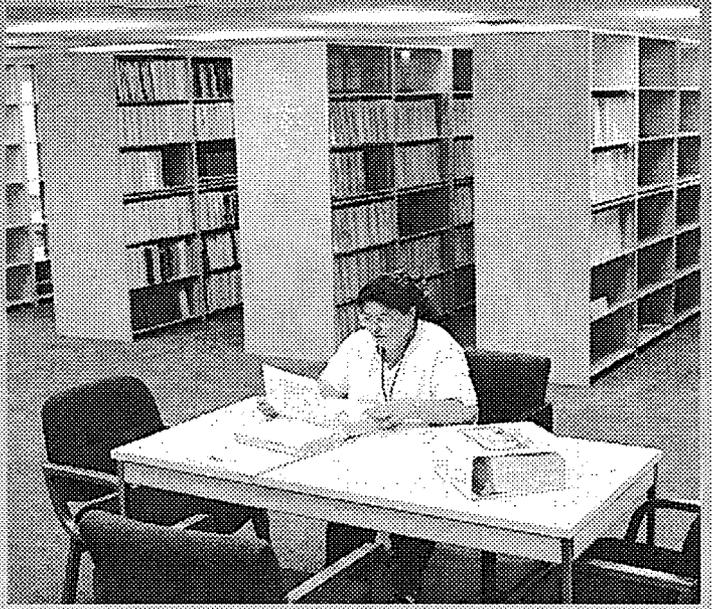
*Don Theim, left*

*(6615-2).*



# Documents Available At Public Environmental Information Center

- Pre-Final Design Package (90 percent) and draft Remedial Action Work Plan for the Road Design.
- Operable Unit 2 Intermediate Design Package for the On-Site Disposal Facility.
- Operable Unit 2 Remedial Design Milestones.
- Operable Unit 4 Vitrification Pilot Plant Treatability Study Work Plan.
- Operable Unit 5 Draft Remedial Design Work Plan.
- Response to the EPA concerns on the treatment of discharges at the FEMP.
- Handouts from the following public workshops:
  - June 4 OSDF workshop;
  - June 16 Silos Project workshop.
- Response to request from the Transportation Committee of the Fernald Citizens Task Force for an evaluation of the combined risk associated with transport of Operable Unit 1 and Operable Unit 4 Fernald waste.
- Response to comments on the Vitrification Pilot Plant melter incident: Final Report.
- Implementation of Operable Unit 5 Record of Decision — Treatment of Discharges.
- Building 4A Complex Decontamination and Dismantlement Project Completion Report Comment Responses.
- Transmittal of the Final Operable Unit 3 Integrated Remedial Design/Remedial Action Work Plan.
- Transmittal of Final On-Site Disposal Facility Leachate/Liner Compatibility Study Final Report.



*Diana Rayer is one of three full-time staff members available to assist visitors at the PEIC (6625-14).*



*Students take time to pose before boarding the bus to head home after participating in the Miami University ESTEEM program (6624-10).*

## June 1997 Corporate Contributions

- Education: \$1,500**  
*M<sup>2</sup>SE ESTEEM Program* — to provide transportation for students to participate in the Exploration of Science, Technology, Engineering and Mathematics at the Miami University of Oxford campus.
- Health and Human Services: \$50**  
*Family Services Inc.* — to support annual meeting.
- Civic: \$250**  
*Butler County Township Association* — to support annual fund raiser.
- Arts: \$3,200**  
*Playhouse in the Park* — to sponsor a play for the Shelter House.

FEMP Waste

# Shipping Report

The volume, in cubic feet (cf), of low-level radioactive waste shipped to NTS for June 1997 was 42,652 (external). As of June 27, the FEMP had shipped 287,932 cf (external) of low-level radioactive waste to NTS for fiscal year (FY) 1997.

Low-level radioactive waste volume reduction includes approximately 4,439 containers of legacy low-level uranium residue and 4,582 containers of thorium oxalates/hydroxides identified in *FY 1996 Inventory Reduction Plan for Legacy Wastes at the FEMP*. During fiscal year 1997, efforts will be directed toward complete reduction of legacy uranium residue and asbestos inventories.

*The volume of low-level radioactive waste materials per waste stream shipped to NTS in June 1997 follows:*

<b>Waste Stream</b>	<b>External Volume (cf)</b>
Process Area Scrap	29,678
Thorium	2,988
Residues	0
Contaminated Trash	1,892
Construction	8,094
Stabilized Mixed Waste	0

*The volume of low-level radioactive waste materials per waste stream shipped to NTS in fiscal year 1997 (as of June 27, 1997) follows:*

<b>Waste Stream</b>	<b>External Volume (cf)</b>
Process Area Scrap	73,748
Thorium	98,632
Residues	69,984
Contaminated Trash	13,242
Construction	24,361
Stabilized Mixed Waste	8,065



## **Fernald Report**

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