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**RE: DOE FEMP, MSL#531-0297, FERNALD COST RECOVERY  
GRANT AWARD NUMBER DE-FG05-94OR22167**

11/21/96

OEPA  
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REPORT

DOE-FEMP



State of Ohio Environmental Protection Agency

**Southwest District Office**

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George V. Voinovich  
Governor

November 21, 1996

RE: DOE FEMP  
MSL #531-0297  
FERNALD COST RECOVERY  
GRANT AWARD NUMBER  
DE-FG05-94OR22167

Mr. Jack Craig  
U.S. DOE FEMP  
P.O. Box 398705  
Cincinnati, OH 45329-8705

Dear Mr. Craig:

Attached please find Ohio EPA's Quarterly Report for the period July 1, 1996 through September 30, 1996 detailing activities related to the Cost Recovery Grant.

If you should have any questions regarding this report, please contact me at (513) 285-6466.

Sincerely,

Thomas A. Schneider  
Fernald Project Manager  
Office of Federal Facilities Oversight

cc w/o enc: Graham Mitchell, Chief, OFFO  
Pat Campbell, Fiscal Officer, DERR  
John Brown, Fernald Site Auditor  
Robert Mendelsohn, Contract Specialist  
Jim Beaton, Grants Administrator, Fiscal  
Kathy Nickel, DOE

**Ohio EPA Office of Federal Facilities Oversight  
Cost Recovery Grant Quarterly Report  
for  
Fourth Quarter of FFY96**

**JULY 1996**

**HIGHLIGHTS/SIGNIFICANT EVENTS**

- DOE's new Assistant Secretary of Environmental Management, Al Alm, visited Fernald and met with employees, regulators and the public.
- Ohio EPA staff attended an Open House for the public on Saturday July 20. Bus tours of the Fernald facility were given.

**DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following documents: 1) Revised TS WP for Decon of Mixed Waste Material and RtC; 2) OU1 Amendment to Design Packages I & II; 3) OU1 Pre-final Design RtC; 4) RA#9 Trash Compactor Prodedures; 5) OU5 Revised RD WP and RtC; 6) Well Abandonment Letter RtC.

**DOCUMENT REVIEWS**

Provided comments to DOE on the following documents: 1) Addendum to Revision 3 of RA#17; 2) Pre-final Design and Draft RAWP for Roads & RtC for Haul Road Preliminary Design; 3) Final Report on Lead Recycling; 4) OU3 Draft ROD; 5) OU1 Draft SOW for Privatization; 6) OU4 Silo Superstructure 90% Design RtC.

**ENVIRONMENTAL MONITORING**

- OU1 split soil samples were taken under the CRG.
- OEPA high volume air sampling activities began at Fernald. The location is co-located with DOE's location northeast of the waste pit area.
- Conducted a walk through review of Plant 1 Pad drum management.

**MEETINGS**

One or more OFFO staff participated in the following meetings: Weekly OU4 Vit. Pilot Plant conference calls; CLN conference calls; Fernald group meeting; Al Alm visit to Ohio facilities; CRG budget mtg.; OU1 site preparation conf. call; FCTF Environmental Monitoring Subcommittee; NRDA conference call; FEMP Open House for the public; 10 Year Vision public mtg.; meeting with PIC to discuss media strategy.

**GIS/GPS ACTIVITIES**

- A paper co-authored by Tom Schneider, Kelly Kaletsky and Randy Earle was accepted by Eco-Infoma and will be presented at the annual conference in November.

**TRAINING**

- Tom Schneider attended Empowerment with Accountability training on July 7.
- Tom Ontko and Jim Coon attended Directing Your Development training on July 30-31.
- Bill Lohner participated in NESHAPs inspection at Portsmouth July 22-26; this experience

will be valuable for the up coming Fernald NESHAPs inspection in September.

### **QUALITY INDICATORS**

- Laura Hafer participated in SWDO CARES committee to enhance the district's public image.
- The OFFO homepage continues to improve the availability of information to the public.
- OFFO worked toward finalizing Environmental Measures for the group.

### **AUGUST 1996**

#### **HIGHLIGHTS/SIGNIFICANT EVENTS**

- The initial meeting of the Fernald Community Reuse Organization (CRO) was held on Saturday, Aug. 17. This group of local residents will make recommendations to DOE on economic development issues and community planning.
- Plant 4 was imploded as part of the remediation of OU3. This marks the second major building at Fernald to be demolished by implosion with shaped charges.
- The CDC announced the findings of their 6 year dosimetry reconstruction study at Fernald. The results of the study that was conducted by an independent corporation, revealed that residents living near the Fernald plant during production had about a 3% increased chance of getting lung cancer for a high exposure scenario. The study also revealed that the primary dose source was that of radon from the K-65 silos, rather than the previously thought uranium emissions.
- OFFO sent a letter to DOE-OH requesting more information on discrepancies in the 10 Year Plan budget/schedule and discussing concern over declining stakeholder confidence.
- OU3 ROD concurrence letter sent to CO for sign-off.

#### **DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following documents: 1) Decontamination of UNH Tanks and Nitric Acid Tanks; 2) Decision Methodology for Fernald Scrap Metal Disposition; 3) Discontinuation of AWWT Pretreatment Plan; 4) Liquid Waste Treatment Under RA's.

#### **DOCUMENT REVIEWS**

Provided comments to DOE on the following documents: 1) FEMP Mixed Waste Chem Treatment Project Neutralization, Precipitation, Deactivation, Stabilization; 2) OSDF 90% Design - Groundwater Monitoring Plan.

#### **ENVIRONMENTAL MONITORING**

- OEPA high volume air sampling activities began at Fernald. The location is co-located with DOE's location northeast of the waste pit area.
- Continued air sampling for particulates NE of the waste pits, and at background location in Eaton.
- Installed the second Fernald particulate sampler on August 28, 1996. It is located along the FEMP east fenceline, NE of the production area.

CRG Quarterly Report  
November 21, 1996  
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### MEETINGS

One or more OFFO staff participated in the following meetings:  
Weekly OU4 Vit. Pilot Plant conference calls; CLN conference calls; Fernald group meeting; FRESH bi-monthly mtg; budget mtg.; initial CRO mtg; DOE's Silo 3 Alternatives public meeting; OEPA's Silo 3 Alternatives with FRESH and FCTF; CDC Dose Reconstruction public mtg; CLN Planning Committee mtg; meet with GAO on UNH project; OU5 technical issues; test pad tour; Plant 4 implosion; OHM on OU1 contract.

### GIS/GPS ACTIVITIES

- Conducted a meeting to identify GPS work and needs for the RCRA Hazardous Waste Management Units.
- Conducted a meeting on the GPS work and needs as well as data management strategies for the mobile unit data sources which OFFO is operating.
- Worked on spatial analysis of HPGE data for the triangle railroad area by creating bubble maps, contours, kriged maps and probability maps.

### TRAINING

- Randy Earle and Matt Justice attended a computer training class on the use of Intergraph GIS related software for geostatistical analysis. This class covered basic application of geostatistical methods for environmental modeling and analysis.

### ADMINISTRATIVE ACTIVITIES

- Brent Bosma replaced Ryan Stahl as OFFO coop.

### QUALITY INDICATORS

- Laura Hafer participated in SWDO CARES group to enhance the district's public image.
- The OFFO homepage continues to improve the availability of information to the public.
- The Adopt-a-School activities have started for the 1996-1997 school year. Jo Davidson, Kelly Kaletsky, Laura Hafer, and Nike Scretch will participate in this year's program.

### SEPTEMBER 1996

#### HIGHLIGHTS/SIGNIFICANT EVENTS

- Tom Ontko and Bill Lohner, along with FERMCO and DOE-FN staff, toured Weldon Springs, Fernald's sister site near St. Louis, MO.
- OFFO staff were interviewed by the Cincinnati Enquirer about the OU4 Vitrification Pilot Plant and DOE funding issues. These stories ran on September 29 and 30, respectively.
- FERMCO, the company managing cleanup at Fernald, officially changed their name to Fluor Daniel Fernald.
- OU3 ROD was signed by DOE and USEPA with Ohio EPA concurrence. A joint press release was issued by the three agencies.
- Randy Earle presented a paper at the IGUG (Integrgraph Graphic Users Group) conference in New Orleans on Ohio EPA's use of GIS & GPS in environmental remediation at Fernald.

- Plans are underway for a complete overhaul in the design of the OFFO homepage. To assist in this effort, OFFO staff evaluated and will be purchasing software to publish homepages.

**DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following documents: 1) Final OU3 ROD; 2) Revised OU5 RDWP.

**DOCUMENT REVIEWS**

Provided comments to DOE on the following documents: 1) OU4 Residue Removal 30% Design Response to Comments; 2) OU4 Silo 3 Alternatives Analysis; 3) OU2 RAWP; 4) Integrated Environmental Monitoring Plan; 5) NRDA Impact Assessment Plan; 6) OU5 RAWP for Area 1 Phase 1; 7) Action Plan for Stormwater Bypass Events; 8) OSDF Air Monitoring Plan.

**ENVIRONMENTAL MONITORING**

- Begin sampling for airborne particulates along the east fenceline of the FEMP, adjacent to the future site of the OSDF.

**MEETINGS**

One or more OFFO staff participated in the following meetings:  
Weekly OU4 Vit. Pilot Plant conference calls; CLN conference calls; Fernald group meeting; FRESH bi-monthly mtg; NRDA conference call; CRO retreat; FCTF bi-monthly meeting; FCTF Waste Management subcommittee meeting; FCTF Natural Resources subcommittee mtg.; Health Effects Subcommittee mtg.; IEMP and OSDF public roundtable; DOE Budget video conference; Groundwater meeting and tour of OU1 remediation; Quarterly Community meeting; 10 Year Plan conf. call; CLN Mixed Waste Focus Area mtg.; CLN Subsurface Contaminant Focus Area mtg.; Meeting with OSDF Manager; Inland Spills Conference; Interstate Technology and Regulatory Cooperation Workgroup meeting; CLN D&D Focus Area mtg.

**GIS/GPS ACTIVITIES**

- Placed GPS base station data and information on the OFFO homepage.
- Initiated the downloading of GPS CORS data from the National Geologic Survey for post-processing of field GPS data. These efforts are currently underway.

**QUALITY INDICATORS**

- Laura Hafer participated in SWDO CARES group to enhance the district's public image.
- Several notable additions were made to the homepage, including Plants 7 and 4 takedown videos, and clickable maps of both Ohio and FEMPs operable units. The homepage continues to improve the availability of information to the public.
- OFFO responded to several public information requests; some people found us via the homepage.
- Jo Davidson, Kelly Kaletsky, Laura Hafer, and Nike Scretch participated in the Adopt-a-School program.