



State of Ohio Environmental Protection Agency

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George V. Voinovich
Governor

July 26, 1999

Mr. Mike Kepler, PCD
U.S. DOE - Ohio Field Office
P.O. Box 3020
Miamisburg, OH 45334-3020

RE: FERNALD COST RECOVERY GRANT AWARD NUMBER DE-FG05-94OR22167

Dear Mr. Kepler:

Attached please find Ohio EPA's Quarterly Report for the period April 1, 1999 through June 30, 1999 detailing activities related to the Cost Recovery Grant.

If you should have any questions regarding this report, please contact me at (937) 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
Jack Craig, DOE Fernald
Jim Beaton, Grants Administrator, Fiscal
cc w/ enc: ~~KT~~ Kathi Nickel, DOE Fernald

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**Ohio EPA Office of Federal Facilities Oversight
Cost Recovery Grant Quarterly Report
for the
Third Quarter of FFY99**

2413

APRIL 1999

HIGHLIGHTS/SIGNIFICANT EVENTS

- The first unit train of gondola cars left Fernald on April 26, for disposal at Envirocare of Utah. The cars were loaded with waste from the Waste Pits Remedial Action Project.
- A public workshop was held by the Fernald Citizens Advisory Board on April 20th to discuss the Future of Fernald. Topics included site access, an on-site museum, Fernald Living History Project, environmental education and more.
- Construction of more than 6 acres of mitigation wetlands continued in Area 1 Phase 1. The wetland mitigation project will be made up of 8 basins surrounded by an additional 6 acres of upland vegetation. Ohio EPA and the University of Dayton initiated a restoration research project within the mitigation area.
- On April 13, Ohio EPA assisted Fluor Daniel Fernald staff in an outreach program with Ross Middle school students in the Habitat Area. The students helped plant native wildflowers in the various habitats within Area 8 Phase 1. At a previous meeting in March the students learned about the native plants. Students from Crosby Elementary planted wildflowers on April 20th.
- Transport of Batch 7 from the liquid waste bulking project to the TSCA incinerator was initiated in early April.
- The OSDF remains shutdown due to leaks in the leachate transmission line. Efforts are focused on designing an interim above ground line to allow operations to continue this summer. Following design, installation of a final below ground leachate line is expected to begin next year. OSDF leaks were the focus of discussions at the monthly progress briefing held April 13th. Ohio EPA inspected OSDF activities almost daily in April.
- Initial interviews were conducted by DOE and FDF as part of the oral history project being completed with the Fernald Living History Project.
- The Plant 5 D&D contract was awarded to Mactech of Golden Colorado.
- Ohio EPA DHWM conducted their annual RCRA inspection and found no violations.

DOCUMENT APPROVALS

Provided Ohio EPA approval on the following document: 1) PSP for A2P1 Southfield Excavation Characterization; 2) A1P2 Supplemental Characterization Package and RtC; 3) WAC PSP for Piles 1, 2, and 4; 4) Verification Sampling Plan for Trap Range A1P1; 5) OU2 Firing Range Remediation Approach & Fact Sheet.

DOCUMENT REVIEWS

Provided review and/or comments to DOE on the following documents: 1) Rev 1 HPGe Comparability Study; 2) Rev. 0.0 HPGe Certification Comparability Study; 3)

Rev. 2.0 RTRAK Applicability Study; 4) Data Validation Checklist for ASL D HPGe Data; 5) Sections 2.4 & 3.7 User's Manual; 6) Q4 1998 IEMP Report.

MEETINGS

One or more OFFO staff participated in the following meetings:

Weekly Project Managers conference calls; OFFO staff meeting; FCAB Remediation committee; Progress Briefing; Fernald Living History Project; Future of Fernald workshop; OSDF meetings (13); real-time meeting; ground water call; wetland meetings; silos meeting; lab call; NRDA call; ITRC expo; wetland mtg w/ Ohio EPA surface water.

QUALITY INDICATORS

- The real time radon page continues to successfully report hourly readings from all three locations. The natural resource restoration pages continue to be updated with photos and descriptions of research projects. Ohio EPA continues to maintain a web site for the Fernald Living History Project.
- Developed Annual Plan and submitted draft to Central Office for fiscal year 2000.
- Completed two quarterly reports for Central Office.

MAY 1999

HIGHLIGHTS/SIGNIFICANT EVENTS

- Ohio EPA completed publication of the 1998 Fernald Annual Report to the Public. The report contains information on Ohio's environmental oversight activities at Fernald during calendar year 1998.
- The second and third trains of Waste Pit (OU1) materials were loaded on gondola cars and left for disposal at Envirocare of Utah.
- The OSDF leachate line has been replaced with a new interim transfer line. The OSDF remains shut down pending internal and regulatory approval. Following design completion this year, installation of a final below ground leachate line is expected to begin in 2000.
- More than 20 interviews have been completed by DOE and FDF as part of the oral history project being completed with the Fernald Living History Project. Unedited tapes and transcripts of the interviews are available in DOE's PEIC.
- Construction of more than 6 acres of mitigation wetlands in Area 1 Phase 1 is expected to be completed by early June. The wetland mitigation project will be made up of 8 basins surrounded by an additional 6 acres of upland vegetation. Ohio EPA and the University of Dayton initiated a restoration research project within the mitigation area.
- A national transportation workshop was held in Cincinnati and attended by

site-specific advisory board members from across the DOE complex. The workshop was sponsored by the FCAB and took place from May 20th through 23rd.

- A polyurethane coating was applied to the top of the K-65 silos to reduce increasing radon emissions from the silos. The silos infrastructure project is ongoing. Realignment of the Pilot Plant drainage ditch was completed.
- The annual public bus tour of Fernald took place on May 11th. The Waste Pits Remedial Action Project was highlighted.
- Started excavation of contaminated soils and below grade structures of the sewage treatment plant. Site preparation activities in A1P2 were completed.
- Ground water monitoring well was installed in recently discovered area of ground water contamination. Ohio EPA observed installation activities.

DOCUMENT APPROVALS

Provided Ohio EPA approval on the following document: 1) January 1999 Reinjection Oper. Report; 2) Trap Range Treatability Study Report; 3) A7P2 Response to Comments; 4) RtC for PSP for RA17 Stockpiles 1, 2, & 4; 5) A1P2 Sector 2B Certification Report; 6) Variance for A1P2 Sludge Removal; 7) Interim Leachate Conveyance System Operation; 8) Final IEMP & RtC.

DOCUMENT REVIEWS

Provided review and/or comments to DOE on the following documents: 1) A1P2 Excavation Monitoring & Precert PSP; 2) A2P3 CDL; 3) A2P3 PSP; 4) RTC OSDF Cell 1 GW Monitoring; 5) SP7 Sampling and Analysis Info.

MEETINGS

One or more OFFO staff participated in the following meetings: Weekly Project Managers conference calls; OFFO staff meeting; FCAB Stewardship committee; FCAB Remediation committee; Progress Tour; Fernald Living History Project; FCAB Transportation workshop; FRESH bimonthly meeting; OSDF meetings (13); Foster-Wheeler alignment meeting (AWR); OU4 vendor proof of principle mtgs (4); Project Managers mtg in Chicago; ITRC Rad group; OU4 briefing; DHWM mtg. w/ DOE; OSDF Optimization Plan mtgs (2).

JUNE 1999

HIGHLIGHTS AND SIGNIFICANT EVENTS

- DOE resumed shipment of wastes to the Nevada Test Site.
- The fourth train of Waste Pit (OU1) materials were loaded on 54 gondola cars and left for disposal at Envirocare of Utah.
- The OSDF leachate line replacement and repairs have been completed. Approval to operate both cells #1 and #2 have been granted. Construction of cell #3 is on-

- going.
- Construction of more than 6 acres of mitigation wetlands in Area 1 Phase 1 was completed. The wetland mitigation project is made up of 8 basins surrounded by an additional 6 acres of upland vegetation. Ohio EPA and the University of Dayton are conducting a restoration research project within the mitigation area.
- Excavation of contaminated soils and below grade structures of the sewage treatment plant continue. Above WAC wastes are being transferred to Soil Pile 7 for off-site shipment by rail.
- Ohio EPA staff met with DOE, FDF and IT personnel to tour the OU1 treatment facility and to discuss start up items and schedule.
- DOE initiated shipment of Nuclear Materials to the Portsmouth Gaseous Diffusion Plant. More than 39 of a planned 137 shipments have been completed.

DOCUMENT APPROVALS

Provided Ohio EPA approval on the following document: 1)Plant 9/Thorium Complex Project Completion Report; 2)Recycling SEP Final Report; 3)February Operating Report for Reinjection; 4)Close-out Report for RA12, Safe Shutdown; 5)RtC for A1P2 PSP for Excavation Monitoring; 6)Final A2P3 CDL & PSP; 7)A2P1 Final Excavation PSP & Rtc; 8)A2P1 Excavation PSP Variance; 9)Nuclear Material Disposition Milestone Date 10)OSDF Cell#1 Request To Start Ops

DOCUMENT REVIEWS

Provided review and/or comments to DOE on the following documents: 1)Identification of New Wetland in Trap Range; 2) Draft Final OU1 RA Package; 3)O&M Plan for AWWT; 4) Geosyntec failure report; 5) FDF Failure report; 6)Lime Sludge Ponds IRDP; 7)Final A1P2 Supp. Char Package; 8)PSP for A2P1 Southfield Excavation; 9)Wetland Permit Xwalk for OSDF Leachate Line; 10)AWWT Lab Expansion Permit Summary; 11)Modification of the OSDF Leachate Conveyance Sys; 12) Response to OSDF Leachate Line Letter; 13)Revised Trap Range Verification Plan & Rtc; 14) RtC for Ecological Research Grants; 15) .

MEETINGS

One or more OFFO staff participated in the following meetings:
Weekly Project Managers conference calls; OFFO staff meeting; FCAB Stewardship committee; full FCAB ; OSDF mtg; Fernald Living History Project; OU4 mtgs (2); ITRC Rad group teleconference; OU1 mtg; STP mtgs (2); Fernald Health Effects Subcommittee meeting; A8P2 mtg.

OHIO EMERGENCY MANAGEMENT AGENCY ACTIVITIES

- OEMA is processing requests for funds from both Hamilton and Butler County.

- Ohio EMA worked with Fernald to gather information on the truck shipments from Fernald to Portsmouth. This information is being processed and disseminated to the county emergency management agencies along the shipment route.
- OEMA continues to review and update the State of Ohio Hazardous Materials Emergency Management Plan and attached USDOE Annex for the FEMP facility.
- OEMA is working with other state agencies to review and update the MOU regarding the state's response to hazardous material incidents. Any changes will be incorporated into the State's Hazmat plan and the attached USDOE Annex.
- OEMA continues to work with other state agencies on the implementation of the State's Incident Command System during emergencies, including incidents at DOE facilities. Any changes will be incorporated into the MOU, the State's Hazmat plan and the attached USDOE Annex.
- Site hazard analysis updates from Fernald will be posted to the USDOE Annex and incorporated into the State's EOC risk assessment system. Mapping capabilities for each facility will be updated with current information on the Assessment Room computers.
- OEMA, Hamilton County, and Butler County participated in the monthly cleanup meetings at FEMP and the bimonthly cooperative planning and training meetings.
- OEMA continues to review and assist Hamilton and Butler Counties in the development and upkeep of their local plans for USDOE facilities.
- OEMA is working with the Ohio Field Office, EPA offices, ODH and USDOE on the continuation of the Consolidated Monitoring and Oversight Grant for the next five years.
- A new laptop computer to teach CAMEO, ALOHA and MARPLOT has been purchased.
- Two CAMEO courses have been scheduled for this summer and notices have gone out. They are scheduled for July 20th - 23rd and for August 17th - 20th.
- Hamilton and Butler counties are in the process of purchasing new and refurbishing old equipment to upgrade their capabilities in this area.
- OEMA's web site continues to be reviewed and updated with relevant DOE information and information that may be of interest to the public.
- Ohio EMA continues to review all EOC operational systems to ensure Y2K compliance and had an exercise on June 15th, which included representatives from state agencies, utility companies and local government.