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**AMENDED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT AND REMEDIAL
INVESTIGATION/FEASIBILITY STUDY MONTHLY REPORT FOR
AUGUST 1996**

09/17/96

**DOE-1350-96
DOE-FN EPAS
9
REPORT**



Department of Energy

**Ohio Field Office
Fernald Area Office
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155**



SEP 17 1996

DOE-1350-96

**Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

**Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911**

Dear Mr. Saric and Mr. Schneider:

**AMENDED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT AND REMEDIAL
INVESTIGATION/FEASIBILITY STUDY MONTHLY REPORT FOR AUGUST 1996**

This letter transmits the consolidated Consent Agreement/Federal Facility Compliance Agreement (CA/FFCA) and the Remedial Investigation/Feasibility Study (RI/FS) Monthly Progress Report which describes the activities accomplished August 1 through 31, 1996.

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

**Johnny W. Reising
Fernald Remedial Action
Project Manager**

Enclosure: As Stated

cc w/enc:

R. L. Nace, EM-425/GTN
R. Beaumier, TPSS/DERR, OEPA-Columbus
D. Carr, FDF/52-5
T. Hagen, FDF/65-2
AR Coordinator/78

cc w/o enc:

G. Jablonowski, USEPA-V, 5HRE-8J
F. Bell, ATSDR
D. S. Ward, GeoTrans
S. McLellan, PRC
J. Harmon, FDF/90
B. Irvine, FDF/65-2
C. Little, FDF/2
T. Walsh, FDF/65-2
EDC, FDF/52-7

**AMENDED CONSENT AGREEMENT/
FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT
AND REMEDIAL INVESTIGATION/FEASIBILITY STUDY
MONTHLY REPORT**

Period Ending August 31, 1996

Introduction

The Amended Consent Agreement (CA) which is pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act as amended (CERCLA), Sections 120 and 106(a), the Federal Facility Compliance Agreement (FFCA), and the Federal Facility Agreement for Control and Abatement of Radon-222 Emissions (FFA-CARE) between the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (USEPA) signed September 20, 1991, July 18, 1986, and November 19, 1991, respectively, require that monthly reports be submitted to the USEPA regarding progress made to meet the provisions of those agreements. This report fulfills those requirements by describing actions completed at the Fernald Environmental Management Project (FEMP) during the period August 1 through August 31, 1996. The monthly report has been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996 and agreed to by USEPA and OEPA. The monthly report will now be limited to identification of the significant activities completed during the preceding month.

**FERNALD MONTHLY
PROGRESS SUMMARY
August 1996**

OPERABLE UNIT 1

August 1996

- Enforceable Milestones
 - The Draft Remedial Action Work Plan (RAWP) was issued on August 16, 1996, for internal review
- Major Work Initiated/Completed
 - OEPA comments on Alternative Remedial Action Subcontracting Approach (ARASA) Statement of Work (SOW) was reviewed
 - Comments from potential offerors on ARASA Request for Proposal (RFP) was reviewed
 - The Request for Proposal (RFP) for construction of on-site rail facilities was issued
 - The CSXT bid for off-site trestle repair was received
 - Ohio Field Office (OFO) RFP for off-site disposal services to bidders was issued
 - Preparation of draft tender for rail contract was completed
 - Continued Site Preparation Activities as follows:
 - Completed stripping of process area topsoil
 - Completed excavation of stormwater ponds
 - Completed construction of soil sediment pond

September 1996 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Incorporate DOE comments on RAWP
 - Continue Site Preparation Activities
 - Select on-site rail subcontractor (FY97 award)
 - Complete north and south drainage ditches
 - Negotiate Phase II (repair phase) for off-site trestle contract with CSXT (FY97 award)

OPERABLE UNIT 2

August 1996

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - Submitted Haul Road and Rerouted North Entrance Road Certified for Construction (CFC) Package to Agencies on August 8, 1996
 - Submitted Haul Road and Rerouted North Entrance Road RAWP to Agencies on August 8, 1996
 - Soil Characterization & Excavation Project (SCEP)
 - None
- Major Work Initiated/Completed
 - OSDF
 - USEPA approval on the Pre-Final Design Package was received on August 8, 1996
 - Completed monitoring on the Test Pad Project
 - SCEP
 - Response was made to USEPA comments on the 30% Design (Title I) of the RAWP for the Excavation and Removal of the Waste Materials from the Five Operable Unit 2 Waste Units
 - The Independent Design Review of the 30% Design of the Waste Units RAWP was initiated
 - Field activities in Area 1, Phase I continued; the ultimate purpose of this activity is to identify and remove contaminated soil prior to construction of the OSDF and sections of the rail yard
 - Characterization of Area 1, Phase I East of the North Access Road was initiated

September 1996 (Anticipated)

- Enforceable Milestones
 - OSDF and SCEP
 - None

- Major Work to be Initiated/Completed
 - OSDF
 - Awaiting final lab results from monitoring on the Test Pad Project; all data received to date have shown acceptable results
 - SCEP
 - Kelchner Environmental to mobilize to strip soils in Area 1, Phase 1 on the Northern End of the OSDF in preparation for future construction within the facility footprint

OPERABLE UNIT 3

August 1996

- Enforceable Milestones
 - Plant 4 implosion was successfully completed on August 24, 1996
 - Final Record of Decision (ROD) for OU3 was submitted to USEPA for approval/signature on August 23, 1996
- Major Work Initiated/Completed
 - Safe Shutdown
 - Continued holdup material removal in Plant 5
 - Continued line draining in Plant 2/3
 - Completed planning for Plant 2/3
 - D&D
 - Continued activities in Plant 1
 - Continued work on Boiler Plant/Water Plant design

September 1996 (Anticipated)

- Enforceable Milestones
 - Submit the Draft Boiler Plant/Water Plant Implementation Plan for Above-Grade Decontamination and Dismantlement to the Agencies by September 20, 1996
 - U.S. EPA approval/signature of Final Record of Decision for OU3 by September 23, 1996
- Major Work to be Initiated/Completed
 - Safe Shutdown
 - Continue holdup material removal in Plant 5
 - Continue line draining in Plant 2/3

- Initiate holdup material removal in Plant 2/3
- D&D
- Continue activities in Plant 1

OPERABLE UNIT 4

August 1996

- Enforceable Milestones
 - None
- Major Work Initiated/Completed
 - The Silo 3 Remedial Alternative was presented in a Public Meeting on August 20, 1996

September 1996 (Anticipated)

- Enforceable Milestones
 - Submit New Radon Treatment Design (Preliminary) to EPA - due date September 30, 1996
- Major Work to be Initiated/Completed
 - Initiate and complete Vitrification Pilot Plant (VitPP) Campaign 2
 - Complete VitPP Upgrade Evaluation, Draft Report
 - Submit Silo Superstructure Design Package, Pre-Final (90%) with comments incorporated

OPERABLE UNIT 5

August 1996

- Enforceable Milestones
 - Submitted Draft Integrated Environmental Monitoring Plan (IEMP) to Agencies on August 1, 1996, in accordance with the Remedial Design Work Plan (RDWP) schedule
 - Forwarded Final RDWP to the Agencies on August 23, 1996
- Major Work to be Initiated/Completed
 - RDWP for Remedial Actions in Operable Unit 5 was approved by USEPA on July 30 and conditionally approved by OEPA on July 24, 1996

- Performed on-board review of Advanced Waste Water Treatment System (AWWT) Expansion drawings to prepare for CFC completion, which is expected in September
- Completed preliminary design of South Plume Optimization and Injection Demonstration groundwater restoration modules; initiated detailed design

September 1996 (Anticipated)

- Enforceable Milestones
 - Submit South Plume Groundwater Recovery System Evaluation Report (formerly known as the Design, Monitoring, and Evaluation Program Plan [DMEPP]) to the Agencies on September 30, 1996
 - Submit Baseline Remedial Strategy Report for Aquifer Restoration to the Agencies on September 30, 1996
 - Submit Injection Test II Report to the Agencies on September 30, 1996
 - Submit Project Specific Plan: Restoration Area Verification (for groundwater) to the Agencies on September 30, 1996
 - Submit Preliminary Design Packages for Injection Demonstration and the South Plume Optimization Projects to the Agencies on September 30, 1996
- Major Work to be Initiated/Completed
 - Complete the above listed reports (under September enforceable milestones) for submittal to the Agencies
 - Complete CFC drawings for AWWT Expansion
 - Install three new multimedia filters at AWWT and send five existing tanks off site to be rehabilitated so they can be reused as multimedia filters

WASTE MANAGEMENT

August 1996

- Enforceable Milestones
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 1,873.0 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Shipped 73.6 m³ of liquid mixed waste to TSCA Incinerator
 - Treated 1.4 m³ of liquid mixed waste in the FEMP Waste Water Treatment System (WWTS)
 - Treated 21.6 m³ of mixed waste in the Stabilization Project

- Chemical Treatment Projects
 - Processed 0.8 m³ in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project

September 1996 (Anticipated)

- Enforceable Milestones
 - Shipment of liquid mixed waste to the TSCA Incinerator by September 30, 1996; this project completion date satisfies the milestone specified in the Director's Final Findings and Orders (DF&O) issued on October 4, 1995, approving the schedules in the FEMP Site Treatment Plan (STP)
 - Complete the treatment of mixed waste in the Stabilization Project by September 30, 1996; this project completion date satisfies the milestone specified in the DF&O issued on October 4, 1995, approving the schedules in the FEMP STP
 - Complete the treatment of liquid mixed waste in the Waste Water Treatment System Project by September 30, 1996; this project completion date satisfies the milestone specified in the DF&O issued on October 4, 1995, approving the schedules in the FEMP STP
- Major Work to be Initiated/Completed
 - Mixed Waste Treatment Projects
 - Decontaminate and otherwise prepare for future use the bulking containers used to aggregate liquid mixed waste for shipment to the TSCA Incinerator; this activity can commence now that the bulking and shipment of legacy waste identified in the STP is complete
 - Shift focus of WWTS Project to treatment of low level waste water; this activity can commence now that the legacy liquid mixed waste identified in the STP has been treated
 - Complete retreatment of the 25 boxes and 19 drums remaining in the Stabilization Project
 - Chemical Treatment Projects
 - Begin shipments from Macroencapsulation Project to Envirocare
 - Continue contract negotiations on the Solvent Extraction project; significant progress has already been made and completion is expected by mid-month
 - Continue treatment activities in the NPDS Project

THORIUM OVERPACK PROJECT UPDATE

All figures year-to-date as of August 31, 1996

- Overpacked 507 drums
- Filled 87 TOCs
- Shipped 68 TOCs