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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY
COMPLIANCE AGREEMENT/ FEDERAL FACILITY
AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/
CONSENT DECREE MONTHLY REPORT, NOVEMBR 1 THROUGH
NOVEMBER 30, 1996**

12/18/96

DOE-0327-97
DOE-FEMP EPAS
10
REPORT



Department of Energy

**Ohio Field Office
Fernald Area Office**

P. O. Box 538705
Cincinnati, Ohio 45253-8705
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DEC 13 1996

DOE-0327-97

**Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - 5HSF-5J
77 W. 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:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT NOVEMBER 1 THROUGH NOVEMBER 30,
1996**

This letter transmits the amended Consent Agreement Monthly Report for the period November 1 through November 30, 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 the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA).

Sincerely,

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

Enclosure: As Stated

cc w/enc:

S. Fauver, EM-42/CLOV
R. Beaumier, TPSS/DERR, OEPA-Columbus
G. Jablonowski, USEPA-V, 5HRE-8J
S. McLellan, PRC
D. Carr, FDF/59
T. Hagen, FDF/65-2
AR Coordinator/78

cc w/o enc:

F. Bell, ATSDR
D. S. Ward, GeoTrans
J. Harmon, FDF/90
B. Irvine, FDF/65-2
C. Little, FDF/2
T. Walsh, FDF/65-2
EDC, FDF/52-7

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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from November 1, 1996 through November 30, 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 U.S. EPA and Ohio EPA.

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OPERABLE UNIT 1

November 1996

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Initiated resolution of outstanding DOE issues on Alternative Remedial Action Subcontracting Approach (ARASA) Request for Proposal (RFP)
 - Pursued resolution of outstanding CSXT issues on Okeana Trestle Branch Line Upgrade

December 1996 (Anticipated)

- Enforceable Milestones
 - Begin the resolution of comments on OU1 Remedial Action Work Plan (RAWP) - Due date is dependent on the appropriate review cycles
- Major Work to be Initiated/Completed
 - Hold Public Workshop on status of OU1; scheduled for December 3, 1996
 - Continue resolving CSXT issues on Okeana Trestle Branch Line upgrade
 - Continue resolving DOE funding and miscellaneous issues on the ARASA RFP
 - Initiate installation of the North Rail Yard subbase
 - Issue notice to proceed to on-site rail subcontractor

OPERABLE UNIT 2

November 1996

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization & Excavation Project (SCEP)
 - None
- Major Work Initiated/Completed
 - OSDF
 - Held Prebid Meeting for potential bidders on the OSDF Phase I Construction Project on November 7, 1996
 - SCEP
 - Completed internal review of the Remedial Action Implementation Plan for the Southern

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Waste Units; this document will be integrated into the submittal of the 90% Design Package for the OU2 Southern Waste Units listed under major SCEP activities for December 1996

December 1996 (Anticipated)

- Enforceable Milestones
 - OSDF
 - None
 - SCEP
 - None
- Major Work to be Initiated/Completed
 - OSDF
 - Receive bids for OSDF Phase I Construction Project; due date is December 12, 1996
 - SCEP
 - Submit 90% Design Package for the OU2 Southern Waste Units (Southfield, Active and Inactive Flyash Piles) to DOE-FEMP in early December

OPERABLE UNIT 3

November 1996

- Enforceable Milestones Completed
 - Submitted OU3 Integrated Remedial Design/Remedial Action Work Plan to the Agencies on November 20, 1996
- Major Work Initiated/Completed
 - Safe Shutdown
 - Continued holdup material removal in Plant 5
 - Continued line draining in Plant 2/3
 - Continued holdup material removal in Plant 2/3
 - D&D
 - Continued Plant 1 activities
 - Issued RFP for decontamination and demolition of Boiler Plant/Water Plant Complex

December 1996 (Anticipated)

- Enforceable Milestones
 - Submit revised Boiler Plant/Water Plant Complex Implementation Plan to the Agencies by December 4, 1996

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- Demolition of High and Low Nitrate Tanks - December 2, 1996
- Major Work to be Initiated/Completed
 - Safe Shutdown
 - Continue holdup material removal in Plant 5
 - Continue line draining in Plant 2/3
 - Continue holdup material removal in Plant 2/3
 - D&D
 - Continue Plant 1 activities

OPERABLE UNIT 4

November 1996

- Enforceable Milestones Completed
 - None

(The November 13, 1996, milestone for Silo Superstructure Award/Construction was not met. On September 26, 1996, U.S. DOE requested an extension of listed milestones, under Section XVIII of the 1991 Amended Consent Agreement. The request for an extension was denied in a letter dated October 2, 1996 from James A. Saric, U.S. EPA to Johnny W. Reising, DOE-FEMP)

- Major Work Initiated/Completed
 - Vitrification Pilot Plant (VITPP)
 - Completed all engineering design and implementation for VITPP modifications necessary to initiate Phase I, Campaign #4
 - Performed pump-out of Decant Sump on November 18 and 20, 1996, and transferred contents to the Advanced Waste Water Treatment Slurry Dewatering Facility for treatment; this recurring activity is triggered each time the sump reaches 75% capacity
 - Introduced feed material into the VITPP on November 30, 1996, for initiation of Phase I, Campaign #4 activities
 - Silo 3 Remedial Alternative
 - Attended meeting with members of the Nevada Test Site Community Advisory Board on November 6, 1996, to review draft responses to comments from Nevada stakeholders on the Draft Final Evaluation of Silo 3 Alternatives
 - Issued the Commerce Business Daily announcement for the Silo 3 Residues Project during the week of November 18, 1996, after requesting and receiving comments from stakeholders such as the Agencies, the Fernald Citizens Task Force (FCTF), and Fernald Residents for Environmental Safety & Health (FRESH)

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- Overall OU4 Issues
 - Attended FCTF Full Board meeting on November 9, 1996, to respond to any questions concerning OU4 in general
 - Convened Silos Project Independent Technical Review Team kick-off meeting on November 14 and 15, 1996; the objective of this team is to evaluate and help determine the Silos Project's path forward based on their collective technical expertise

December 1996 (Anticipated)

- Enforceable Milestones
 - Vitrification Pilot Plant Title I Preliminary 30% Design and the Pre-Final 90% Design Criteria Package are due December 4, 1996. (These milestones are among those currently subject to informal dispute resolution as documented in a letter from Johnny Reising - DOE-FEMP to James Saric, U.S. EPA, dated October 9, 1996.)
- Major Work to be Initiated/Completed
 - Conduct the second meeting of the Silos Project Independent Technical Review Team, scheduled for December 12 and 13, 1996
 - Submit revised Draft Evaluation of Silo 3 Alternatives to U.S. EPA by December 16, 1996

OPERABLE UNIT 5

November 1996

- Enforceable Milestones Completed
 - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
 - Submitted the OU5 Remedial Action Work Plan (RAWP) for the Aquifer Restoration Project to the Agencies on October 30, 1996 (actually due November 1, 1996); the successful completion of this milestone was previously noted in the October 1996 Monthly Progress Summary
 - SCEP
 - None
- Major Work Initiated/Completed
 - ARP/AWWT
 - Continued installation efforts on AWWT Multimedia Filter Project
 - Issued AWWT Expansion procurement/solicitation packages on November 26, 1996; construction contract is anticipated to be awarded by February 28, 1997
 - Continued design preparations for the Bionitrification By-Pass; this design is being planned to follow the path of the OSDF leachate pipeline to reduce costs through commonality of ditching work

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- SCEP
 - Completed and transmitted to the Natural Resource Trustees the revised Draft FEMP Natural Resource Impact Assessment in response to their previous comments
 - Met with the Natural Resources Committee of the FCTF and the NRTs on November 14, 1996, to discuss their respective conceptual restoration goals for the Fernald site; as a follow-up to this meeting, individual copies of the Draft FEMP Natural Resource Impact Assessment were sent to each committee member
 - Completed Precertification of the Rail Yard; this activity identifies areas of contamination so that they can be removed prior to the more expensive and time-consuming activities associated with Certification
 - Initiated Precertification activities in the OSDF Support Area
 - Continued Comparability Study of real time field analytical methods and laboratory analysis for Uranium contamination in soil; sample collection phase is complete
 - Kelchner Environmental completed excavation of the soils in Area 1, Phase I east of the North Access Road; this activity supports the preparation of the OSDF footprint and the relocated North Access Road
 - Continued internal FDF review of the Draft Statement of Work for excavation of impacted material in Area 1, Phase I

December 1996 (Anticipated)

- Enforceable Milestones
 - ARP/AWWT
 - Submit Draft Final Project Specific Plan for the Restoration Area Verification Sampling Program to the Agencies - Due date is dependent on the appropriate review cycle
 - SCEP
 - None
- Major Work to be Initiated/Completed
 - ARP/AWWT
 - Conduct startup testing and standard startup review of AWWT Multimedia Filter installation
 - SCEP
 - Complete Precertification activities in Area 1, Phase I
 - Kelchner Environmental is scheduled to complete seeding in Area 1, Phase I east of the North Access Road by December 13, 1996
 - Distribute the Draft Site-Wide Excavation Plan (SEP) for DOE review in early December; the SEP is accompanied by the following support plans:
 - Natural Resource Restoration Plan
 - Site-Wide Extent of Excavation Plan
 - Data Update Report
 - Spatial Distribution Plan
 - Grading Plan
 - Sequencing Plan

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- Address any additional comments on the Natural Resource Impact Assessment with resubmittal planned for January 1997
- Continue compilation and assessment of analytical data associated with the ongoing Comparability Study
- Continue ongoing revision of the RAWP for Area 1, Phase I, in response to comments from the Agencies

WASTE MANAGEMENT

November 1996

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 426.00 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Shipped 31.20 m³ mixed waste to the TSCA Incinerator
 - Treated 0.20 m³ mixed waste in the Waste Water Treatment System (WWTS)
 - Chemical Treatment Projects
 - Treated 14.20 m³ in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Shipped 10.00 m³ in the Hazardous Waste/Recycling Project

December 1996 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Chemical Treatment Projects
 - Begin drafting Work Plan and obtaining rates for future mixed waste generation for the Treatment, Storage, and Disposal Facility (TSDF) Project
 - Continue treatment activities in the NPDS Project
 - Develop Sampling and Analysis Plans to complete characterization for the Thorium Stabilization Project; the thorium inventory to be characterized has been identified

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THORIUM OVERPACK PROJECT UPDATE

All figures year-to-date as of November 30, 1996

- Overpacked 2,127 drums
- Filled 358 Thorium Overpack Containers (TOCs)
- Shipped 338 TOCs