



Department of Energy

**Ohio Field Office
Fernald Area Office**
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FEB 16 2000

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

DOE-0399-00

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 FOR THE PERIOD JANUARY 1, 2000
THROUGH JANUARY 31, 2000**

This letter transmits the amended Consent Agreement Monthly Report for the period January 1, 2000 through January 31, 2000. This report is formatted 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).

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

Sincerely,

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Reising

Enclosures

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FEB 16, 2000

Mr. James A. Saric
Mr. Tom Schneider

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cc w/enclosures:

N. Hallein, EM-42, CLOV
G. Jablonowski, USEPA-V, SRF-5J
D. Sarno, FCAB
V. Dastillung, FRESH
P. Dunn, FRESH
F. Barker, Tetra Tech
D. Carr, Fluor Fernald/2
T. Hagen, Fluor Fernald/65-2
T. Walsh, Fluor Fernald/65-2
AR Coordinator, Fluor Fernald/78

cc w/o enclosures:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
J. Harmon, Fluor Fernald/90
S. Hinnefeld, Fluor Fernald/31
B. Irvine, Fluor Fernald/65-2
ECDC, Fluor Fernald/52-7

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STUDY/CONSENT DECREE MONTHLY REPORT JANUARY 1, 2000 THROUGH
JANUARY 31, 2000**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from January 1, 2000 through January 31, 2000. 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.

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JANUARY 31, 2000**

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

January 2000

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Processed 11,563 tons of material from waste pits, shipped 60 railcars of material for disposal at Envirocare of Utah

February 2000 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None

- Major Work to be Initiated/Continued/Completed
 - Process 10,641 tons of material from waste pits, ship 60 railcars of material for disposal at Envirocare

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND EXCAVATION PROJECT

**Additional OU2 soils-related activities reported under OU5/Soils
Characterization and Excavation Project**

January 2000

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None

 - Soil Characterization and Excavation Project (SCEP)
 - None

- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continue to be in winter shutdown mode

 - Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Received, and incorporated into Site Preparation Package drawings, the preliminary as-builts
 - Initiated testing of excavation dewatering pumps

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- Completed seeding of disturbed areas
- Addressed contractor's punchlist items
- Area 2, Phase I
 - Received comments and prepared comments regarding the draft summary report showing stabilization results below toxicity characteristic levels
 - Completed excavation of South Field Stockpile
 - Continued excavation of South Field
 - Began excavation of bottom half Active Flyash Pile
 - Began excavation of South Field
- Area 2, Phase II
 - Received approval for A2PII Part One/Nonwaste unit predesign
 - Began Real Time Scanning and handheld field demonstration of ground penetrating radar
 - Submitted response to USEPA comments and revised predesign project Specific plan (PSP) for A2PII Parts 2 and 3
- Area 2, Phase III
 - Continued data validation for Part One
 - Submitted IRDP for Part Two
- Other Areas
 - Submitted 90% Title I/II design on Area 3A/4A to DOE-FN
 - Continued work on the construction contract for the OSDF and Area 3A/4A excavation
 - Began sampling near K-65 Trench to support lime Sludge Pond Project
 - Real Time scanning is in process in A9PI
- Real Time Program
 - Completed draft methods for calibration of NaI and HPGe tools on the calibration pad
 - Continued construction of a calibration pad for HPGe and NaI detectors
 - Continued development of methods and procedures documenting the calibration pad process
 - Continued revision of the document entitled "Guidelines, Measurement Strategies, and operation Factors for the Deployment of In-Situ Gamma Spectroscopy at the Fernald Site"
 - Continued to determine if there is a need for revision of the RTRAK Applicability Study to incorporate new uncertainty factors and minimum detectable concentrations based upon DOE review and comments on the document
 - Continue to document calibration of a sodium iodide detection system placed on a John Deere Gator

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- Continued to calibrate RSSII (a sodium iodide detection system on a second stroller) data
- Natural Resource Restoration
 - Department of Interior and Ohio Attorney General's office continued to draft settlements
- Wetland Mitigation - Phase I
 - The project is complete and USEPA has approved comment responses
- Conservation Area OU4 Supplemental Environmental Project
 - US Army Corp of Engineers made final offer to landowners regarding land easements, which was rejected; the project is being cancelled. A request will be sent to the Agencies requesting approval of the cancellation of the project
- Ecological Research Projects
 - Initiated final Ecological Restoration Case Study by Texas Southern University
- Final Land Use
 - Continued to draft Master Plan for Public Use

February 2000 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Complete addition of surfactant in Cells 1, 2 and 3; weather permitting
 - Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Issue as-builts and close out project
 - Remove sediment from basin south of West Impacted Materials Stockpile
 - Remove ramp and six inches of stockpile footprint
 - Begin STP and Trap Range as-builts
 - Area 2, Phase I
 - Begin excavation of treated soil for placement in the OSDF
 - Complete stockpile excavation and continue excavation of South Field
 - Area 2, Phase II
 - Continue Real Time sampling and begin physical sampling with A2Pll Part 1/Non Waste Unit
 - Continue ground penetrating radar investigation by securing contractor

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- Await comments on A2Pll Parts 2 and 3 Predesign PSP.
- Area 2, Phase III
 - Complete data validation and submit Certification Report
- Other Areas
 - Conduct DOE and Fluor Fernald review of 90% Title I/II design
 - Review Silos 1, 2, and 3 preliminary designs to determine if addition Waste Acceptance Criteria sampling is necessary and where sampling should be scoped
 - Continue Real Time scans as weather permits
- Real Time Program
 - Await review comments on the Draft methods of calibration of NaI and HPGe tools on the calibration pad
 - Initiate revision of document "Guidelines, Measurement Strategies, and operational Factors for the Deployment of in-Situ Gamma Spectroscopy at the Fernald Site"
- Natural Resource Restoration
 - Dept. of Interior and Ohio Attorney General's office continue to draft settlements
- Wetland Mitigation - Phase I
 - Begin addendum to design with as-builts drawings
- Conservation Area OU4 Supplemental Environmental Project
 - US Army Corp of Engineers made final offer to landowners regarding land easements, which was rejected; the project is being cancelled. A request will be sent to the Agencies requesting approval of the cancellation of the project
- Ecological Research Projects
 - Continue to draft final report from Texas Southern University
- Final Land Use
 - Continue to draft Master Plan for Public Use

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

January 2000

- Enforceable Milestones
 - None
- Major Work Initiate/Continued/Completed
 - Continued asbestos abatement and interior transite removal in Plant 5 Complex
 - Continued initial mobilization activities in Plant 6 area

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February (Anticipated)

- Enforceable Milestones
 - None

- Major Work to be Initiated/Continued/Completed
 - Continue asbestos abatement and interior transite removal in Plant 5 Complex
 - Continue initial mobilization activities in Plant 6 area

OPERABLE UNIT 4 - SILOS PROJECT

January 2000

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Ongoing support is being provided to the Agencies during review of the draft Revised FS/PP for Silos 1 and 2
 - Submitted Remedial Design package for Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project to Agencies
 - Prepared draft Commerce Business Daily (CBD) notice requesting expressions of interest in a Request for Proposal for the Silos 1 and 2 Full-scale Remediation Facility; document was provided to the Agencies and Fernald Citizens Advisory Board for informal review
 - Received informal comments from OEPA on the Site preparation package and Pre-operational Environmental Control Plan for the Silo 3 Project

February 2000 (Anticipated)

- Enforceable Milestones
 - None

- Major Work to be Initiated/Continued/Completed
 - Publish CBD notice for the Silos 1 and 2 Full-Scale Remediation Facility
 - Prepare responses to comments received on the draft Revised FS/PP for Silos 1 and 2
 - Conduct public briefing on the Preliminary Design for the Silos 1 and 2 AWR Project
 - Submit the Site Preparation package for the Silo 3 project to the Agencies for review and approval
 - Review analyses of treated waste and debris from the VitPP Waste Disposition Project; provide contractor with approval to dispose of treated waste

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OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

January 2000

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on January 13, 2000
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

- Work Initiated/Continued/Completed
 - Submitted the September 1999 Operating Report for the Re-Injection Demonstration on January 13, 2000 to DOE for transmittal to the Agencies
 - Conducted 90% review of Detail Design Package of new Leachate Transmission System on January 19, 2000

February 2000 (Anticipated)

- Enforceable Milestones
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA covering the previous month
 - Meet 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

- Work to be Initiated/Continued/Completed
 - Submit monthly 1999 Operating Report for the Re-injection Demonstration to DOE for transmittal to the Agencies
 - Complete construction of the AWWT Groundwater Reroute Project
 - Complete compilation of data collected during the Re-Injection Demonstration in preparation of the Re-Injection Report
 - Initiate the initial draft of the Re-Injection Demonstration report
 - Continue evaluating data collected during the Re-Injection Demonstration in preparation of the Re-Injection report
 - Prepare Groundwater Remedy performance section of the IEMP Report for the 4th Quarter of 1999
 - Complete construction and startup of the two additional extraction wells in the South Field and begin pumping the two new extraction wells in the South Field Module
 - Complete Detail Design of new Leachate Transmission System

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WASTE MANAGEMENT

January 2000

- Enforceable Milestones
 - None

- Work Initiated/Continued/Completed
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Staged drums of PermaFix cement in Building 30 for shipment
 - Completed shipment of excess cement drums on January 18-19, 2000
 - Thorium Legacy Waste Project (TLWP)
 - Completed procedure to clean out Building 64 Middle Bay
 - Performed tabletop review of procedure under development to move hydrogen-generating and pyrophoric thorium material and performed management assessment with regard to the procedure's applicability
 - Submitted the two procedures (above) to Nevada Test Site (NTS) for review and approval
 - Completed development of material Review checklist on the Thoria Gel
 - Completed draft report on recommendations for handling hydrogen-generating materials
 - Continue on the identification of alternative storage locations for thorium
 - RCI Solvent Extraction Project
 - Continue activities for movement of OEP cooling tower from Building 80
 - Liquid Mixed Waste (Bulking) Project
 - Initiated Batch 9, Shipment 1 of 5 to the TSCA Incinerator; weather has delayed the transfer of waste
 - Hazardous Waste Project
 - Shipped 10 drums of bulk Waste Water Treatment chemicals to Heritage Environmental Services on January 6, 2000
 - Shipped 21 drums of bulk Waste Water Treatment chemicals to Heritage Environmental Services on January 12-13, 2000
 - Mixed Waste Shipping
 - Continued review of containers of below-LDR mixed waste for shipment to Envirocare

February 2000 (Anticipated)

- Enforceable Milestones
 - None

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- Work to be Initiated/Continued/Completed
 - Mixed Waste Shipping
 - Conduct sampling required to complete the profile
 - Ship 43 candidate drums upon completion, submittal and approval of profile by Envirocare
 - Liquid Mixed Waste (Bulking) Project
 - Decontaminate Batch 7 and Batch 8 consolidation tanks
 - Initiate bulking of Batch 10 on completion of Batch 8 consolidation tank decontamination
 - Continue Batch 9 shipments to the TSCA Incinerator
 - Thorium Legacy Waste Project
 - Waste Generator Services will meet with Defense nuclear Facilities Safety Board to discuss the thorium fire corrective actions and investigation
 - RCI Solvent Extraction Project
 - Move remaining OEP equipment from Building 80 to storage area in Plant 2/3

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