



Department of Energy

**Ohio Field Office
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2841

MAR 15 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-0489-00

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 OF FEBRUARY 1, 2000,
THROUGH FEBRUARY 29, 2000**

This letter transmits the amended Consent Agreement Monthly Report for the period February 1, 2000, through February 29, 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

Enclosure: As Stated

2841

Mr. James A. Saric
Mr. Tom Schneider

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MAR 15 2000

cc w/enclosure:

N. Hallein, EM-31, CLOV
G. Jablonowski, USEPA-V, SRF-5J
D. Sarno, FCAB
V. Dastillung, FRESH
P. Dunn, FRESH
F. Hodge, Tetra Tech
T. Hagen, Fluor Fernald/65-2
M. Jewett, Fluor Fernald/52-2
T. Walsh, Fluor Fernald/65-2
AR Coordinator, Fluor Fernald/78

cc w/o enclosure:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
D. Carr, Fluor Fernald/2
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 FEBRUARY 1, 2000 THROUGH
FEBRUARY 29, 2000**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from February 1, 2000 through February 29, 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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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

February 2000

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Processed 9,945 tons of material from waste pits, shipped 120 railcars of material for disposal at Envirocare

March 2000 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None
- Major Work to be Initiated/Continued/Completed
 - Process 7,860 tons of material from waste pits, ship 60 railcars of material for disposal at Envirocare
 - Conduct WPRAP Dryer Performance Test

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

February 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
 - Submitted responses to OEPA comments on Borrow Area Strategy Report
 - Completed design of impacted Access Road, access trailer area, and equipment wash facility for OSDF

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- Begin revision of future OSDF Placement Scenarios based upon latest quantities and strategies
- Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Submitted Certification Report for West of the Old North Access Road to the Agencies for review and approval
 - Began pumping to OSDF permanent lift Station
 - Received OEPA approval of SP3 Draft Waste Acceptance Criteria Attainment Plan
 - Area 2, Phase I
 - Transmitted Precertification Project Specific Plan to the Agencies for review and approval
 - Non-Waste Unit
 - Continue electromagnetic and ground penetrating radar surveys
 - Completed real-time scanning
 - Continue pre-design sample locations
 - Area 2, Phase II
 - Received approval from the Agencies on parts 2 & 3 Pre-design PSP
 - Area 2, Phase III
 - Continuing draft Radium Hot Spot Integrated Remedial Design Package (IRDP)
 - Other Areas
 - Continued work on the construction contract for the OSDF and Area 3A/4A excavation
 - Continue real-time scanning in A9PI
- Real Time Program
 - Fabricating sources for the calibration pad for HPGe and NaI detectors
 - Continued development of methods and procedures documenting the calibration pad process
 - Continue revision of "Guidelines, Measurement Strategies, and operational Factors for the Deployment of In-Situ Gamma Spectroscopy at the Fernald Site"
 - Continue documenting calibration of a sodium iodide detection system placed on a John Deere Gator
- 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

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- 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

March 2000 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Await approval of Borrow Area Strategy Report from Agencies
 - Resume OSDF operations
 - Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Continue pumping to OSDF permanent lift Station
 - Complete certification sampling
 - Area 2, Phase I
 - Await approval, from the Agencies, of the Project Specific Plan for precertification sampling
 - Complete perimeter excavation design review of Active Flyash Pile
 - Area 2, Phase II
 - Complete brush clearing east of Impacted Material Haul Road
 - Area 2, Phase III
 - Submit Radium Hot Spot IRDP to Agencies
 - Other Areas
 - Submit draft Stockpile 1 (SP1) Waste Acceptance Criteria Attainment Plan PSP
 - Begin Phase II sampling
 - Await approval on SP3 WAC PSP
 - Real Time Program
 - Continue revision of "Guidelines, Measurement Strategies, Operational Factors for the Deployment of In-Situ Gamma Spectroscopy at the Fernald Site"
 - Submit final RSS II Calibration Report to Agencies

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- Natural Resource Restoration
 - Dept. of Interior and Ohio Attorney General's office continue to draft settlements
- Wetland Mitigation - Phase I
 - Continue addendum to design with as-builts drawings
 - Begin monitoring as weather permits
- 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
 - Begin monitoring of growth in research projects
- Final Land Use
 - Continue to draft Master Plan for Public Use

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

February 2000

- Enforceable Milestones
 - None
- Major Work Initiate/Continued/Completed
 - Continued asbestos abatement, interior transite removal in Plant 5 Complex
 - Initiated D & D activities in the Plant 6 area

March 2000 (Anticipated)

- Enforceable Milestones
 - Complete field activities for the Maintenance/Tank Farm D&D Project
- Major Work to be Initiated/Continued/Completed
 - Continue asbestos abatement and interior transite removal in plant 5 Complex
 - Continue preliminary D&D activities in the Plant 6 area

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OPERABLE UNIT 4 - SILOS PROJECT

February 2000

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Published a Commerce Business Daily (CBD) notice requesting expressions of interest in an Request for Proposal (RFP) for the Silos 1 and 2 Full-Scale Remediation Facility
 - Prepared responses to comments from the Agencies on the draft Revised FS/PP for Silos 1 and 2, these were submitted to the Agencies on February 28, 2000
 - Conducted Agency and Stakeholder briefings on the preliminary Design for Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project
 - Received comments from USEPA on the Site preparation portion of the AWR Project Remedial Design package
 - Reviewed analyses of treated waste and debris from the VitPP Waste Disposition project; provided contractor approval to dispose of treated wastes

March 2000 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Continued/Completed
 - Review expressions of interest in response to the CBD notice for Silos 1 and 2 Full-scale Remediation Facility
 - Submit Site preparation package for the Silo 3 project to the Agencies for review and approval
 - Initiate internal review of the Remedial Design Package for the Silo 3 Project
 - Incorporate Agency comments on the Site Preparation portion of the AWR Project Remedial Design Package

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

February 2000

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report for the TSS exceedance to the OEPA on February 14, 2000
 - Submitted the Noncompliance Report to the OEPA on February 14, 2000
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

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- Work Initiated/Continued/Completed
 - Submitted the October 1999 Operating Report for the Re-Injection Demonstration on February 28, 2000 to DOE for transmittal to the Agencies
 - Completed construction and startup of the two additional extraction wells in the South Field

March 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
 - Implement the new NPDES permit on March 1, 2000
- Work to be Initiated/Continued/Completed
 - Submit monthly 1999 Operating Report for the Re-injection Demonstration to DOE for transmittal to the Agencies
 - Finalize Groundwater Remedy Performance section of the IEMP Report for the 4th Quarter 1999
 - Complete Detail Design of New Leachate Transmission System (LTS)
 - Complete AWWT Groundwater Reroute Project construction
 - Submit LTS Procurement Package to bidders

WASTE MANAGEMENT

February 2000

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Reviewed and commented on draft of Revision 1 NPDS Thorium Profile
 - Thorium Legacy Waste Project (TLWP)
 - Presented information on the Thorium Fire to the DNFSB
 - Submitted information package to Chem-Nuclear personnel to assess and provide recommendations regarding hydrogen generating thorium handling
 - Completed recommendations pertaining to movement of hydrogen generating uranium material from Building 77 to TS-4
 - Unloaded and released trailer loaded with thoria gel
 - Received approval of the "super thorium" profile after being reviewed by NTS

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- RCI Solvent Extraction Project
 - Completed the move of the OEP Cooling Tower from Building 80
- Liquid Mixed Waste (Bulking) Project
 - Transfer of waste has been delayed due to an empty DOE tanker trailer being returned to TSCA Incinerator for inspection
- Hazardous Waste Project
 - Assisting with report to OEPA for hazardous waste generation
 - Reviewed and approved Waste Control Specialists Notice of Treatment Completion and Request to Dispose of Wastes, VitPP Wasted Disposition Project
- Mixed Waste Shipping
 - Continued review of containers of below-LDR mixed waste for shipment to Envirocare
- Organic Treatment Project
 - Provided First Article Testing Inventory (Campaign 1 and 2) for completion of Waste Review checklist

March 2000 (Anticipated)

- Enforceable Milestones
 - None
- Work to be Initiated/Continued/Completed
 - Mixed Waste Shipping
 - Ship 143 candidate drums upon completion, submittal and approval of profile by Envirocare
 - Liquid Mixed Waste (Bulking) Project
 - Decontaminate Batch 8 and 7 consolidation tanks
 - Initiate bulking of Batch 10
 - Resume Batch 9 shipments to the TSCA Incinerator
 - Thorium Legacy Waste Project
 - Complete Thorium Disposition options Report for the thorium waste per the request of the DNFSB
 - Brief the ISRC and DNFSB on the thoria gel to receive approval for shipment to NTS
 - RCI Solvent Extraction Project
 - Initiate sampling for NCR OEP drum
 - Organic Treatment Project
 - Provide Campaign 3 and 4 inventory for completion of Waste Review checklist
 - Review draft Standard Startup Review
 - Finalize absorbent determinations