



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**

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15 MAR 2001

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-0408-01

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> 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 FEBRUARY 1, 2001  
THROUGH FEBRUARY 28, 2001**

This letter transmits the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Monthly Report for the period February 1, 2001 through February 28, 2001. 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 and Ohio Environmental Protection Agency.

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

Sincerely,

Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FEMP:Reising

Enclosure

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15 MAR 2001

Mr. James A. Saric  
Mr. Tom Schneider

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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  
D. Carr, Fluor Fernald, Inc./2  
T. Hagen, Fluor Fernald, Inc./65-2  
D. Whitaker-Sheppard, Fluor Fernald, Inc./31  
AR Coordinator, Fluor Fernald, Inc./78

cc w/o enclosure:

A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
S. Hinnefeld, Fluor Fernald, Inc./31  
B. Irvine, Fluor Fernald, Inc./28  
R. McDonough, Fluor Fernald, Inc./28  
T. Poff, Fluor Fernald, Inc./65-2  
C. Sutton, Fluor Fernald, Inc./35  
ECDC, Fluor Fernald, Inc./52-7

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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STUDY/CONSENT DECREE MONTHLY REPORT FEBRUARY 1, 2001 THROUGH  
FEBRUARY 28, 2001**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from February 1, 2001 through February 28, 2001. 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 2001

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Loaded 8,933 tons of material from waste pits
  - Shipped 60 railcars (UT33 @ 6,456 tons) of material for disposal at Envirocare

March 2001 (Anticipated)

- Enforceable Milestones Expected to be Completed
  - None
- Major Work to be Initiated/Continued/Completed
  - Load 8,200 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

February 2001

- Enforceable Milestones
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None
- Major Work Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continued operation of the Bulk Debris Transfer Expansion Area
    - Submitted Draft Management Plan for On-Site Disposal Facility Material Transfer Area (OMTA) Bulk Debris Transfer Area to DOE on February 14, 2001

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- Received OEPA approval of the Enhanced Permanent Leachate Transmissions System Tie-In plan on February 22, 2001
  
- Soil Characterization and Excavation Project (SCEP)
  - Area 1, Phase III
    - Completed excavation investigation of fill areas on February 20, 2001
  - Area 2, Phase I
    - Began segregated stockpile in South Field on February 26, 2001
  - Area 2, Phase II Part Three
    - Submitted Draft Certification Report for Soil Stockpile 3 Footprint to DOE on February 1, 2001
  - Area 9, Phase I
    - Submitted Certification Design letter to the Agencies on January 19, 2001 (not reported last month), received conditional approval on February 22, 2001 from OEPA
    - Received conditional approval of the Draft Certification Project Specific Plan for Certification Sampling from OEPA on February 22, 2001
  - Paddy's Run
    - Removed debris from Paddy's Run north of railroad trestle on February 20, 2001
  - American Chestnut Tree Project
    - Submitted the Restoration of the American Chestnut Tree Project 2000 Annual Report to DOE on February 15, 2001

**March 2001 (Anticipated)**

- Enforceable Milestones
  - None
  
- Major Work to be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Operate Bulk Debris material Transfer Area expansion
    - Continue procurement of materials for OSDF Cap #1 geosynthetic liner, drainage layer & biointrusion layer
    - Begin receiving cover drainage layer and biointrusion layer for Cap #1
    - Begin IT Corporation mobilization for Cap #1

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- Soil Characterization and Excavation Project (SCEP)
  - Area 1 Phase III
    - Complete fine grading within southwest fill
    - Complete re-certification sampling in debris removal footprint
  - Area 2, Phase I
    - Further segregate debris in SF stockpiles
  - Area 3
    - Begin excavating AWAC soil in NE corner of Area 3A
  - Other
    - Complete Certification for Construction package and final Implementation Plan for March 2001

**OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT**

February 2001

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Continued exterior transite and structural steel removal at Plant 5A
  - Began structural steel removal in Plant 5D
  - Continued demolition, interior demolition, demolition of the Water Treatment Area and Old Ingot Furnace Stack and ACM removal and Ductwork Removal in Plant 6 areas
  - Continued isolation activities in the General Sump area

March 2001 (Anticipated)

- Enforceable Milestones
  - None
- Major Work to be Initiated/Continued/Completed
  - Plant 5
    - Continue structural steel removal of Area D
  - Plant 6
    - Begin washdown above and below-grade in Area 2, continue demolition of the Water Treatment Area and Old Ingot Furnace Stack, Interior equipment dismantlement in Area 4 and duct and miscellaneous piping/conduit dismantlement in Area 7
    - Continue isolation activities in the General Sump area

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**OPERABLE UNIT 4 - SILOS PROJECT**

February 2001

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Completed review of the Balance of Plant (BOP) Final Design for the Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project. Submitted comments to the AWR Project subcontractor for incorporation
  - Received approval from USEPA to extend the date for submittal of the revised draft Final AWR Project RD Package to April 6, 2001 to allow USEPA/OEPA RD package comments to be resolved concurrent with comments on the BOP Final Design
  - Initiated preparation of Design Criteria and Conceptual Design for Silos 1 and 2 Full Scale Remediation Facility
  - Submitted Draft Remedial Action (RA) Work Plan for Radon Control System (RCS) Phase 1 Operation to USEPA/OEPA for review

March 2001 (Anticipated)

- Enforceable Milestones
  - Submit RA Work Plan to EPA, due March 2, 2001
- Major Work to be Initiated/Continued/Completed
  - Receive revised AWR Project Final Design documentation, addressing comments from BOP Final Design review and USEPA/OEPA draft Final RD Package review
  - Finalize Design Criteria and Conceptual Design documentation for Silos 1 and 2 Full Scale Remediation Facility
  - Continue evaluation of path forward options for Silo 3 remediation

**OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT**

February 2001

- Enforceable Milestones
  - Submitted Monthly NPDES Discharge Monitoring Report, covering January 2001, to the OEPA on February 15, 2001
  - 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 responses to OEPA comments on the Re-Injection Demonstration Test Report (RTC) on February 9, 2001 for transmittal to the Agency by DOE
  - Submitted draft letter requesting Agency concurrence on the selected location for a new South Plume groundwater monitoring well to replace Monitoring Wells 2551 and 3551 on February 22, 2001 for transmittal to the Agencies by DOE
  - Submitted the 2000 Ohio Department of Natural Resources (ODNR) Annual Water Withdrawal Report on February 26, 2001
  - Continued to use a more aggressive treatment method in an attempt to mitigate plugging in the re-injection wells; treatment of Well 10 was completed with encouraging results
  - Continued working on the Waste Storage Area Aquifer Restoration Module Design
  - Began work on the 5-year CERCLA review
  - Continued work on the groundwater section of the 2000 Integrated Site Environmental Report

**March 2001 (Anticipated)**

- Enforceable Milestones
  - Submit the NPDES Discharge Monitoring Report for the month of February to the OEPA
  - 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
  - Continue to perform maintenance/rehabilitation on injection and extraction wells
  - Continue work on the preliminary Design of the Waste Storage Area aquifer restoration module
  - Continue work on 5-year CERCLA review, due April 1, 2001

**WASTE MANAGEMENT**

**February 2001**

- Enforceable Milestones
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project
    - Continue preparation for March 27-28 packaging of Chemicals to Heritage
    - Received Shipping Classification & Packaging Compliance Requirements (SC&PCR) for light ballasts

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- Completed operations review of lead acid battery task order
- Liquid Mixed Waste (Bulking) Project
  - Submitted Batch 10 application to TSCA
  - Issued new Batch 11 Task Order for bulking of Batch 11
  - Bulked waste from TSCA 1024 containers into Batch 11
  - Staged TSCA 1023 containers at Building 79 for Batch 11 bulking
  - Received Waste Characterization release of TSCA 1001 to 1024
  - Received PPE requirements for TSCA 1023 from Industrial Hygiene
  - Completed new Task Orders for bulking of Batches 12, 13, and 14
- Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
  - Awaiting evaluation of 5-gallon can of samples for inclusion of NPDS 1001
  - Completed draft of task order for NPDS thorium repack operations
- Organic Treatment Project
  - Met with Waste Characterization to discuss inclusion of free liquids from MEF 3735 into Batch 11
- Thorium Legacy Waste Project (TLWP)
  - Completed one shipment of Thorium Residues (total of 24 of 31 shipments completed)
  - Completed development of Management Self Assessment plan for Thoria Gel packaging
  - Initiated evaluation of Campaign TH1007
  - Completed development of Task Order 01-038 for Processing Thoria Gel
- Wastewater Treatment Project
  - Received Waste Characterization release of AWWT 1003, 1005, 1006, 1008, 1009, and 1010
  - Received compatibility assessments for AWWT 1003, 1005, 1006, and 1008 from Waste Characterization
  - Staged AWWT 1003 containers at Plant 1 Pad and await location availability to stage AWWT 1005, 1006, 1008, 1009 and 1010 containers at Plant 1 Pad
- Waste Minimization/Pollution Prevention
  - Began preparations for FY 2001 Quarterly Report
  - Provided clarification to DOE-Albuquerque on Affirmative Procurement and Waste Generation Annual Report

**March 2001 (Anticipated)**

- Enforceable Milestones
  - None

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- Work to be Initiated/Continued/Completed
  - Hazardous Waste Project
    - Provide Legal with comments on SOW regarding unused, excessed chemicals
    - Continue to order Clean Side Locker supplies
    - Finalize lead acid battery task orders
    - Finalize Clean Side locker task order
  - Liquid Mixed Waste (Bulking) Project
    - Await TSCA and State of Tennessee approval of Batch 10
    - Continue bulking of Batch 11 waste into Southern Consolidation Tank with TSCA
    - Investigate bulking of 4 Batch 14 tote tanks into Batch 11
    - Develop task order to add consolidation tank within the bulking area
    - Issue new Task orders for bulking of Batches 12, 13, and 14
  - Neutralization/Precipitation/Deactivation/Stabilization (NPDS)
    - Working with Perma Fix to develop the necessary preparations for shipping of remaining individual pieces of Perma Fix equipment
    - Field Operations validation of draft task order for NPDS Thorium repack operations
  - Organic Treatment Project
    - Finalize outstanding MEF issues for First Article Testing
    - Finalize absorbent determinations
    - Initiate sampling and analysis request and task order for Fire Training Facility soils
  - Thorium Legacy Waste Project
    - Complete Task Order and begin startup review for processing 51 boxes of Thoria Gel
    - Continue planning for processing remaining 100 boxes of Thorium inventory
  - Wastewater Treatment Project
    - Continue AWWT waste treatment with staging/transfer of remaining AWWT 1003 containers
    - Evaluate alternate site locations for future staging/transfer wastewater treatment operations