



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**

P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



**3660**

MAY 15 2001

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

DOE-0566-01

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 APRIL 1, 2001  
THROUGH APRIL 30, 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 April 1, 2001 through April 30, 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 United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA).

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

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Sincerely,

FEMP:Reising

Johnny W. Reising  
Fernald Remedial Action  
Project Manager

Enclosure: As Stated

MAY 15 2001

3660

Mr. James A. Saric  
Mr. Tom Schneider

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cc w/enclosure:

K. Chaney, EM-31, CLOV  
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./MS2  
T. Hagen, Fluor Fernald, Inc./MS65-2  
D. Whitaker-Sheppard, Fluor Fernald, Inc./MS31  
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
S. Hinnefeld, Fluor Fernald, Inc./MS31  
B. Irvine, Fluor Fernald, Inc./MS28  
R. McDonough, Fluor Fernald, Inc./MS80-3  
T. Poff, Fluor Fernald, Inc./MS65-2  
C. Sutton, Fluor Fernald, Inc./MS35  
ECDC, Fluor Fernald, Inc./MS52-7

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1, 2001 THROUGH APRIL 30, 2001**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1, 2001 through April 30, 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**

April 2001

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Loaded 11,303 tons of material from waste pits
  - Shipped 60 railcars (UT35) of material for disposal at Envirocare

May 2001 (Anticipated)

- Enforceable Milestones Expected to be Completed
  - None
- Major Work to be Initiated/Continued/Completed
  - Load 10,660 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

April 2001

- Enforceable Milestones
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None

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- Major Work Initiated/Continued/Completed
    - On-Site Disposal Facility
      - Continued operation of the Bulk Debris Transfer Expansion Area
      - Reviewed survey data from B.L. Payne and Associates of existing conditions of Cell 1
      - Reviewed IT submittals in support of OSDF Phase III
      - Continued preparation of OSDF re-baseline

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- Soil Characterization and Excavation Project (SCEP)
  - Area 1, Phase III
    - Completed regrading the area and collection of certification samples
  - Area 2, Phase I
    - Completed segregating Petro Stockpile
    - Dressed and reseeded the Active Flyash Pile
    - Began removal of turnaround pile
  - Area 9, Phase I
    - Received USEPA approval on April 5, 2001, of the Area 9, Phase I Certification Design Letter, Certification Sampling Project Specific Plan and Sitewide Excavation Plan Addendum
  - Natural Resources
    - Transmitted the Draft Ecological Restoration literature Compendium for the FEMP to DOE on April 4, 2001
    - Received USEPA approval on April 5, 2001, of the Draft Area 8, Phase II Natural Resource Restoration Project Completion and Lessons Learned Report
    - Received USEPA approval of the American Chestnut Report on April 5, 2001
  - Real Time Program:
    - Drafted "Warm Standby Plan" to ensure equipment maintenance during 2-year shutdown
    - Transmitted the Final Calibration of NaI In Situ Gamma Spectroscopy Systems to DOE on April 4, 2001

May 2001 (Anticipated)

- Enforceable Milestones
  - None
- Major Work to be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Operate Bulk-Debris-Material-Transfer-Area expansion
    - Begin receiving biointrusion layer for Cell 1 cap
  - Soil Characterization and Excavation Project (SCEP)
    - Area 2
      - Excavate 21,000 cubic yards to meet Final Remediation Levels in the South Field
    - Area 3A/4A
      - Transmit Final Implementation Plan to DOE

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

April 2001

- Enforceable Milestones
  - None
  
- Major Work Initiated/Continued/Completed
  - Completed punchlist items and decontaminating of construction equipment in Plant 5
  - Continued housekeeping and miscellaneous activities in Plant 6A area
  - Began shear and demolition of equipment, hauling of equipment to washdown, interior ACM piping removal and below grade demolition in Plant 6, Area 2
  - Continued Old Water Treatment Dismantlement
  - Continued ACM and Tool Room roof removal in Plant 6, Area 5
  - Continued Duct and Miscellaneous piping/conduit dismantlement, cross transfermatic removal of pumps/conveyor in Plant 6A, Area 7
  - Continued isolation activities in the General Sump area

May 2001 (Anticipated)

- Enforceable Milestones
  - None
  
- Major Work to be Initiated/Continued/Completed
  - Plant 5
    - Continue demobilization
  - Plant 6
    - Continue all activities, working toward demolition
  - Continue isolation activities in the General Sump area

**OPERABLE UNIT 4 - SILOS PROJECT**

April 2001

- Enforceable Milestones
  - None
  
- Major Work Initiated/Continued/Completed
  - Received revised AWR Project Final Design documentation, addressing comments from Balance of Plant (BOP) Final Design review; reviewed revisions and final comments with FWENC

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- Submitted revisions of draft Final AWR Project Remedial Design (RD) Package, addressing USEPA and OEPA comments to the Agencies on April 5, 2001
- Submitted the Silo 3 Project Rescoping Evaluation and Recommendation to DOE for review; the document was provided to USEPA and OEPA for informal review, and was made available for stakeholders inspection
- Continued development of the Conceptual Design for Silos 1 and 2 Full Scale Remediation Facility
- Received comments from OEPA on the RA Work plan for Radon Control System (RCS) Phase 1 Operation

May 2001 (Anticipated)

- Enforceable Milestones
  - NOTE: Received USEPA's approval to DOE's request for the extension of the May 1, 2001 milestone for submittal of the RA Work Plan for the Silo 3 project. A milestone date of July 15, 2001 was established for the submittal of a schedule for the RA Work Plan
- Major Work to be Initiated/Continued/Completed
  - Complete final review and approval of the Balance of Plant (BOP) Final design for the Silos 1 and 2 AWR Project
  - Incorporate input from DOE, OEPA/USEPA, and stakeholders into the Silo 3 Project Rescoping Evaluation and Recommendation
  - Develop responses to OEPA and USEPA comments on the RA Work Plan for Radon Control System (RCS) Phase 1 Operation
  - Await approval or comments from OEPA on the AWR Project RD Package
  - Continue development of the design for Silos 1 and 2 Full Scale Remediation Facility

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

April 2001

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- Enforceable Milestones
    - Submitted Monthly NPDES Discharge Monitoring Report, covering March 2001, to the OEPA on April 18, 2001
    - Exceeded the OU5 limit of 20 ppb; monthly average uranium concentration was 24.3 ppb. An upset condition in AWWT Phase II lead to a high uranium discharge on April 25, 2001, resulting in the monthly average exceedance.

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- Work Initiated/Continued/Completed
  - Submitted the January 2001 Operating Report for the Re-Injection Demonstration on April 17, 2001 to DOE for transmittal to the Agencies
  - Submitted the February 2001 Operating Report for the Re-Injection Demonstration on April 30, 2001 to DOE for transmittal to the Agencies
  - Submitted the First IEMP Quarterly Summary Report for 2001 to DOE on April 25, 2001, for transmittal to the Agencies
  - Submitted the Waste Storage Area and Plant 6 Area Aquifer Restoration Module Design to the Agencies on April 20, 2001
  - Continued to work on the groundwater section of the 2000 Integrated Site Environmental Report

May 2001 (Anticipated)

- Enforceable Milestones
  - Submit the NPDES Discharge Monitoring Report for the Month of April 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
  - Begin drilling of the new extraction wells for the Waste Storage Area (WSA)
  - Complete the ARASA Basin Reroute Project
  - Complete EPLTS tie-ins by end of month
  - Complete groundwater section of the 2000 Integrated Site Environmental Report

**WASTE MANAGEMENT**

April 2001

- Enforceable Milestones
  - None

- Work Initiated/Continued/Completed
  - Hazardous Waste Project
    - Heritage picked-up chemicals for shipment
    - Staged nine skids of lead acid batteries in Building 79 for shipment to vendor
    - Ordered Clean Side Locker supplies
    - Began to prepare for shipment of chemicals from Springdale location

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- Liquid Mixed Waste (Bulking) Project
  - Submitted Batch 10 application to TSCAI
  - Completed Sample Plan and Task Order for Batch 11
  - Issued Task Orders for bulking of Batches 12, 13, and 14
  - Revised Batch 12 Task Order to reflect inventory adjustment
- Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
  - Received comments on second draft from Thorium legacy Field operation's validation of NPDS Thorium Repack Operations
- Organic Treatment Project
  - Received notification from M&EC of their receipt of CERCLA off-site approval
  - Completed development of Task Order for decanting OTP 1001 containers
- Thorium Legacy Waste Project (TLWP)
  - Completed 4 shipments of Thorium Residues, for a total of 28 of 29 shipments
  - Completed the SSR for Thoria Gel processing
  - Completed processing of 9 boxes of Thoria Gel
- Wastewater Treatment Project
  - Staged AWWT 1003 containers at Plant 1 Pad and continue to await location availability to stage AWWT 1005, 1006, 1008, and 1009 at Plant 1 Pad
- Waste Minimization/Pollution Prevention
  - Continued working on the Rumpke Contract for solid waste
  - Continued final revisions to the Solid Waste and Paper Recycling Statement of Work based on Legal's comments

May 2001 (Anticipated)

- Enforceable Milestones
  - None
- Work to be Initiated/Continued/Completed
  - Hazardous Waste Project
    - Continue to prepare for lead acid battery shipment
    - Complete shipment of silver recovery waste/chemicals from Springdale
  - Liquid Mixed Waste (Bulking) Project
    - Await TSCAI and State of Tennessee approval of Batch 10
    - Issue revisions to Task Orders for bulking of Batches 13 and 14 based on Waste Characterization Compatibility reviews
    - Complete and implement sampling/sample analysis activities for Batch 11
  - Neutralization/Precipitation/Deactivation/Stabilization (NPDS)
    - Continue to work with Perma Fix to develop the necessary preparations for shipping of remaining individual pieces of Perma Fix equipment
    - Issue and implement NPDS Thorium Repack Operations Task Order

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- Organic Treatment Project
  - Prepare shipping recommendation for preliminary TRB review
  - Campaign remaining Non-First Article Testing inventory
  - Initiate sampling and analysis request and task order for Fire Training Facility soils
- Thorium Legacy Waste Project
  - Continue planning for processing remaining 100 boxes of Thorium inventory
  - Continue loading and shipping boxes of thorium residues, and processing Thoria Gel boxes
- 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