



## Department of Energy

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Fernald Area Office

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**3971**

15 NOV 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-0115-02

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 OCTOBER 1, 2001 THROUGH  
OCTOBER 31, 2001 INCLUDING ANTICIPATED WORK FOR THE PERIOD  
NOVEMBER 1, 2001 THROUGH NOVEMBER 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 October 1, 2001 through October 31, 2001 including anticipated work for the period November 1, 2001 through November 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 and Ohio Environmental Protection Agency.

15 NOV 2001

Mr. James A. Saric  
Mr. Tom Schneider

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DOE-0115-02

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

Sincerely,



Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FEMP:Reising

Enclosures: As Stated

cc w/enclosures:

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N. Hallein, EM-31/CLOV  
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V. Dastillung, FRESH  
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AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
D. Carr, Fluor Fernald, Inc./MS2  
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S. L. Hinnefeld, Fluor Fernald, Inc./MS52-2  
B. Irvine, Fluor Fernald, Inc./MS28  
R. McDonough, Fluor Fernald, Inc./MS44-N-0  
T. Poff, Fluor Fernald, Inc./MS65-2  
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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1, 2001 THROUGH  
OCTOBER 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD  
NOVEMBER 1 THROUGH NOVEMBER 30, 2001**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from October 1 through October 31, 2001 and includes the anticipated work for the period November 1 through 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**

October 2001

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Loaded 10,768.5 tons of material from waste pits
  - Shipped 60 railcars (UT47) of material for disposal at Envirocare

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - None
- Major Work To Be Initiated/Continued/Completed
  - Load 13,784 tons of material from waste pits
  - Ship 120 railcars (UT 48 & UT 49) 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**

October 2001

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None
- Major Work Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continued placement of vegetative layer for OSDF Cell 1 Cap
    - Completed procurement package for installation of monitoring devices and equipment and installation services and issued Design Change Notice (DCN) to OSDF Phase III contract
    - Continued placement of impacted materials from Southern Waste Unit (SWU) and various stockpiles in Cells 2 and 3

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- Continued placement of impacted material in Cell 2 catchment area
- Continued Cell 1 Cap Construction activities
- Completed work on Biointrusion Layer of OSDF Cell 1 Cap
- Began removing the temporary leachate line
  
- Soil Characterization and Excavation Project (SCEP)
  - Continued Area 1, Phase III Paddy's Run Debris Excavation
  - Received OEPA approval on the Draft Project Specific Plan (PSP) for Area 4B, potentially Characteristic Area and West of pilot plant Predesign investigations
  - Began excavation of the road between South Field and Active Fly Ash Pile
  - Submitted PSP for Solid Waste Landfill and Fire Training Facility Predesign to the DOE on October 18, 2001, for transmittal to the Agencies
  - Submitted PSP for Area 3A/4A Excavation Characterization and Precertification to the DOE on October 29, 2001, for transmittal to the Agencies
  - Received Ohio EPA approval on variance to Area 1, Phase II Certification PSP on October 2, 2001
  - Received Ohio EPA approval on Draft Area 2, Phase I Inactive Flyash Pile (IFP), South Field (SF), Carolina Area, East West Construction Remedial Design (RD) and Equipment Wheel Wash Facility Certification Design Letter (CDL) and PSP on October 3, 2001

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation
    - None
  
- Major Work To Be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continue placement of vegetative layer for OSDF Cell 1 Cap
    - Continue filter layer placement on Northwest and West Toe Face Cell 1 Cap (Sand Placement)
    - Continue placement of impacted material from SWU and various stockpiles in Cells 2 and 3

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- Continue placement of impacted material in Cell 2 catchment area
- Continue Cell 1 Cap construction activities
- Continue removing temporary leachate line
  
- Soil Characterization and Excavation
  - Begin Northern Pine Area chipping
  - Continue Area 1, Phase III Paddy's Run Debris Excavation
  - Begin excavation of the road way between Southfield and Active Fly Ash Pile
  - Begin collection of Certification and Baseline samples in Area 9, Phase I
  - Begin developing Environmental Assessment (EA) for future public use of the FEMP
  - Continue developing 2001 Restored Area Monitoring Report for Area 1, Phase I, Wetland, and Area 8, Phase II
  - Conduct sampling in the Arsenic Hot Spot Area

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

October 2001

- Enforceable Milestones Completed
  - None
  
- Major Work Initiated/Continued/Completed
  - Transition Work
    - Completed
  - Plant 6
    - Area 1
      - Completed Interior Transite Removal
      - Began Exterior Transite Removal
    - Area 2
      - Continued Release Cleaning
      - Completed Interior Transite Removal
      - Began Exterior Transite Removal
    - Area 3
      - Completed Interior Transite Removal
      - Began Exterior Transite Removal
    - Area 6A
      - Continued miscellaneous Activities and Housekeeping
    - Area 7
      - Began Transite Removal and Structural Demolition

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- Facilities Shutdown
  - Began Utility Isolations in Area 3A and 4A
  - Began Isolation of the Domestic Water to the OSDF
  - Began Vitrification Plant Equipment Removal

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - None
- Major Work To Be Initiated/Continued/Completed
  - Multi-Complex Task 1
    - Continue Mobilization
  - Plant 6
    - Area 3
      - Begin Structural Demolition
    - Area 6A
      - Begin Transite Removal
    - Area 7
      - Continue Transite Removal
  - Facilities Shutdown
    - Continue Utility Isolation in Area 3A and 4A

**OPERABLE UNIT 4 - SILOS PROJECT**

October 2001

- Enforceable Milestones Completed
  - Received approval from the Agencies regarding the revised Silos 1 and 2 Remedial Design Work Plan and the Revised Accelerated Waste Retrieval (AWR) Project Remedial Design/Remedial Action Schedule
- Major Work Initiated/Continued/Completed
  - Continued preparation of Silos 1 and 2 Conceptual Design, including design of the shipping/disposal container, and design data development testing
  - Presented a briefing on Silos project activities at the October Cleanup Progress Briefing
  - Continued preparation of Silo 3 Conceptual Design, including data development testing, development of the retrieval access strategy, evaluation of disposal containers
  - Initiated Design Change notices to incorporate design modifications resulting from the Radon Control System Due Diligence evaluation

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- Initiated preparation of Remedial Design package for the Silo 3 Project
- Continued Balance of Plant (BOP) Due Diligence evaluation and evaluation of alternatives for the AWR Project waste retrieval design
- Erected the Radon Control System exhaust stack, and initiated Transfer Tank Area (TTA) Tank erection and other AWR project field activities

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - None
- Major Work To Be Initiated/Continued/Completed
  - Continue Silos 1 and 2 and Silo 3 Conceptual Design activities
  - Continue to prepare the revised Silo 3 Remedial Design Package
  - Continue RCS Construction activities

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

October 2001

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for September to the Ohio EPA on October 18, 2001
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Continued work on the technical memorandum to establish baseline groundwater conditions for OSDF Cells 1, 2, and 3

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - Submit monthly NPDES Discharge monitoring Report to the OEPA
  - Meet the 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 construction of Waste Storage Area extraction System - Phase I and South Field Extraction System - Supplemental Well

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- Continue to work on OSDF baseline technical memorandum for groundwater (perched and Great Miami Aquifer)
- Begin design of South Field Extraction System – Phase II
- Begin work on Project Specific Plans (PSPs) for installation of additional monitoring wells in the Waste Storage, South Field and South Plume Areas
- Install monitoring wells for OSDF Cells 4 and 5
- Install a multilevel monitoring well in the South Field

## WASTE MANAGEMENT

October 2001

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project
    - Completed shipping of photo chemicals from Springdale
    - Began preparation for shipment of packaged free-released chemical
    - Contacted Safety-Kleen to schedule Medical shipment
    - Continue to segregate RAD contaminated chemicals and free-release and acceptable chemicals
  - Inorganic Treatment Project
    - Contracted performance Development Corporation (PDC) to support acceleration of the Inorganic Treatment Project
    - Began steps toward construction of Mixed Waste Processing Enclosure in Building 79 to process/package Inorganic Treatment Project Waste
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Bulked 88 containers of waste of Batch 12 inventory
    - Submitted application for Batch 11 to the TSCA Incinerator/State of Tennessee
  - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
    - Completed processing of 10 box of NPDs Thorium and completed RTR of 8 of the 10 boxes
  - Organic Treatment Project
    - Finalized shipment of First Article Test drums
    - Unpacked/repacked and/or overpacked 64 First Article Test drums for shipment
  - Thorium Legacy Waste Project (TLWP)
    - Completed placing shield wall and storage Sealand containers in place on Plant 1 Pad
    - Moved 31 boxes Thorium into Plant 1 Pad shielded area

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- Waste Minimization/Pollution Prevention
  - Reviewed Sanitary Waste Disposal and Paper Recycling contract bids
  - Continued to revise Oil Recycling Request for Proposal (RFP)

November 2001 (Anticipated)

- Enforceable Milestones To Be Completed
  - None
- Work To Be Initiated/Continued/Completed
  - AWWT Liquids
    - Continue activities for future staging/transfer wastewater treatment operations at Building 79
  - Hazardous Waste Project
    - Review and complete site paperwork for packaged chemicals destined for off-site shipment
    - Complete Safety-Kleen medical shipment
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Continue Batch 12 bulking activities
    - Complete consolidation tank location at bulking area
  - Inorganic Treatment Project
    - Initiate construction of Mixed Waste Processing Enclosure
  - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
    - Complete processing completed RTR of boxes
  - Organic Treatment Project
    - Complete campaign development for current uncharacterized inventory
  - Thorium Legacy Waste Project (TLWP)
    - Continue sorting and packaging Thorium Trash for shipment to NTS
    - Continue movement of Thorium inventory
  - Waste Minimization/Pollution Prevention
    - Initiate preparation of Annual Report