



Department of Energy

**Ohio Field Office
Fernald Area Office**

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



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FEB 13 2002

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

DOE-0318-02

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, OH 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, 2002
THROUGH JANUARY 31, 2002 INCLUDING ANTICIPATED WORK FOR THE PERIOD
FEBRUARY 1, 2002 THROUGH FEBRUARY 28, 2002**

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 January 1, 2002 through January 31, 2002, including anticipated work for the period February 1, 2002 through February 28, 2002. 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.

FEB 13 2002

Mr. James A. Saric
Mr. Tom Schneider

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DOE-0318-02

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:

R. Greenberg, 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
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
T. Hagen, Fluor Fernald, Inc./MS65-2
B. Irvine, Fluor Fernald, Inc./MS65-2
R. McDonough, Fluor Fernald, Inc./MS44-0-N
T. Poff, Fluor Fernald, Inc./MS65-2
C. Sutton, Fluor Fernald, Inc./MS35
D. Whitaker-Sheppard, Fluor Fernald, Inc./MS44-0-N
ECDC, Fluor Fernald, Inc./MS52-7

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT
JANUARY 1, 2002 THROUGH JANUARY 31, 2002, INCLUDING ANTICIPATED
WORK FOR THE PERIOD FEBRUARY 1 THROUGH FEBRUARY 28, 2002**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from January 1, 2002 through January 31, 2002. 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.

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/ FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT
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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

January 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Loaded 3,876.2 tons of material from waste pits

February 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Load 12,921 tons of material from waste pits
 - Ship 120 railcars (UT52 and UT53) 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 2002

- 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
 - Placed approximately 68,000 in-place cubic yards of impacted materials in the Cells in the 2001 construction season
 - Began Phase II Leachate Removal Project
 - Began removal of remaining Stockpile materials southeast of C-4
 - Continued to install conduit for the new technology cable
 - Continued Access Control Facility project
 - Continued Cell 1 Cap monitoring system installation

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- Began Test pits at Borrow Area
- Completed Preliminary Survey for Emergency Access Road
- Continued Cells 4 and 5 Horizontal Monitoring Wells Construction

- Soil Characterization and Excavation Project (SCEP)
 - Continued developing Environmental Assessment for Future Public Use of the FEMP
 - Continued Certification Sampling for Area 2, Phase I
 - Continued pre-design efforts in the Arsenic Hot Spot Area
 - Began Area 2, Phase II Title Design
 - Continued Area 3B/4B/4 Title I Design
 - Continued RCRA soil excavation and stockpile at Building 80
 - Completed all originally intended sampling in Area 9, Phase I on January 10, 2002
 - Continued to develop Final Natural Resource Restoration Plan
 - Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design
 - Began excavation of above WAC soil at Incinerator Pad (10D)
 - Began wood chipping and excavation of Arsenic Hot Spot Area
 - Began excavation of Area 2, Phase I - Perimeter Area (including Basin 2 and East/West portion of Haul Road)

February 2002 (Anticipated)

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

- Major Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Complete Construction Quality Control (CQC) Services for Borrow Sub Areas Pre-Conformance Testing
 - Continue Access Control Facility Project
 - Complete Cell 1 Cap
 - Complete winterization of Cells 2 and 3
 - Complete conduit installation and electrical for Cell 1 Cap Monitoring Instrumentation
 - Begin Emergency Access Road construction and construction lay down area
 - Complete Cells 4 and 5 Horizontal Monitoring Wells construction
 - Begin Access Control Relocation Operation Maintenance Transfer Area (OMTA)

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- Soil Characterization and Excavation Project (SCEP)
 - Issue Environmental Assessment for Future Public Use of the FEMP to the public
 - Complete Area 2, Phase II Title I Design
 - Begin Area 2, Phase II Title II Design
 - Complete Area 2, Phase II Sampling and Analysis at the Arsenic Hot Spot
 - Complete Area 3B/4B/5 Title I Design
 - Continue Area 3B/4B/5 Title II Design
 - Continue Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design
 - Begin Wood Cutting and Chipping in Northern pine and Arsenic Hot Spot areas
 - Continue Incinerator Pad (10D) above WAC excavation
 - Complete Maintenance Building RCRA excavation
 - Complete Certification Sampling of Area 2, Phase I
 - Complete Restoration Design for Southern Waste Units, Phase I
 - Issue Final Natural Resource Restoration Plan for Public review
 - Continue excavation of Area 2, Phase I - Perimeter Area (including Basin 2 and East/West portion of Haul Road)
 - Complete excavation of Area 2, Phase II - Arsenic Hot Spot Area

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

January 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Plant 6
 - Continued to size reduce debris and place in roll-off boxes for disposition
 - Multi-Complex
 - Completed structural demolition in Building 8H and 8B
 - Established building enclosure and vestibule, glovebag removal, prepare asbestos containment in Building 2A
 - Established wastewater tanks, asbestos glovebag removal, control room VAT removal and interior transite removal in Building 8A
 - Prepared for system purging, and interior transite panel removal in Component 2D
 - Size reduced and loaded material in Component 2F
 - Sheared tanks, equipment and structural steel in Component 3D

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- Facilities Shutdown
 - Continued furniture/equipment breakdown and removal in Building 53A
 - Began utility disconnects in Building 53A

February 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Plant 6
 - Continue to size reduce and place in roll-up boxes for disposition
 - Multi-Complex
 - Continue work in all areas
 - Facilities Shutdown
 - Continue Building 53A utility disconnects
 - Begin sump cake removal from Tank F3E-7 (Nitrate Acid Recovery [NAR] Towers)

OPERABLE UNIT 4 - SILOS PROJECT

January 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Issued Silo 3 Conceptual Design package for formal review by DOE and the Critical Analysis Team (CAT)
 - Continued Design Data Development testing and Preliminary Design Package preparation for the Silo 1 and 2 Project
 - Continued design activities to implement changes identified by Due Diligence review of the AWR design
 - Continued AWR project construction activities: took delivery of two of the four RCS carbon beds; continued erection of Transfer Tank Area (TTA) tanks; began installation of foundations for utility pipe rack

February 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

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- Major Work To Be Initiated/Continued/Completed
 - Present Silos Projects Status Briefing for the Agencies
 - Receive comments from formal DOE and CAT review of the Silo 3 Conceptual Design Package; continue development of the Remedial Design Package
 - Continue Design Data Development testing and Preliminary Design Package preparation for the Silos 1 and 2 Project
 - Continue design activities to implement changes identified by Due Diligence review of the AWR design
 - Continue AWR Project construction activities; install improved foundation for RCS Carbon Beds; continue erection of TTA Tanks; begin installation of structural steel for utility pipe rack; install enhanced foundations for main pipe rack.

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

January 2002

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for December 2001 to the Ohio EPA on January 16, 2002
 - Submitted the NPDES Noncompliance Report for December 2001 to the Ohio EPA on January 17, 2002
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Submitted the November 2001 Operating Report for the Re-Injection Demonstration on January 24, 2002 to DOE for transmittal to the Agencies
 - Submitted the Draft Data Package for Baseline groundwater Conditions at the On-Site Disposal Facility Cells 1, 2, and 3 to DOE for transmittal to the Agencies on January 15, 2002; DOE submitted to the Agencies on January 16, 2002
 - Submitted the Project Specific Plan (PSP) for Conducting Direct-Push Sampling in the South Plume to DOE for transmittal to the Agencies on January 10, 2002; DOE submitted to the Agencies on January 14, 2002
 - Began work on PSP for geoprobing in the off-property portion of the South Plume
 - Installed five conventional monitoring wells in the Pilot Plant Drainage Ditch Plume. Continued to develop the multilevel wells installed in this area during December

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- Began design of South Field Extraction System - Phase II
- Began work on a PSP for installing additional injection wells along the southern property boundary to replace Injection Wells 8 and 9
- Began work on a PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer

February 2002 (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; projection completion dependent on pump delivery
 - Continue work on South Field Extraction System Phase II design report
 - Submit a PSP to DOE and the Agencies for the installation of injection wells along the southern property boundary
 - Submit the PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer to DOE and the Agencies

WASTE MANAGEMENT

January 2002

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - No AWWT Liquid Waste was transferred to the AWWT during this time
 - Hazardous Waste Project
 - Completed Photochemical shipment of 1 drum to Safety-Kleen on January 24, 2002
 - Continued segregation of Legacy Chemicals
 - Finalized Legacy Chemical Work Plan
 - Dispositioned chemicals remaining in contamination area
 - Bulked last two baskets of TSCA chemicals

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- Inorganic Treatment Project
 - Began process of constructing Mixed Waste processing Enclosure in Building 70 for process/package of inorganic Treatment Project waste
- Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Completed Phase II, Batch 12 Sampling on January 22, 2002
 - Shipped Batch 12 samples to off-site labs for sample analysis
- Organic Treatment Project
 - Received notification of First Article test initial processing to begin February 8, 2002
- Sample Disposition
 - Transferred 10 SAMP 1001 containers to uranium Waste Disposition (UWD) Project
- Thorium Legacy Waste Project (TLWP)
 - Completed venting of 17 boxes and 8 drums of Thorium flammable gas generating material for a total of 35 boxes and 8 drums
 - Moved thorium inventory from Building 65 to Building 64
 - Continued to develop plans for Building 71 Isotopic Room for use by Thorium project for Trash Sorting
- Waste Minimization/Pollution Prevention
 - Continued monitoring of new dumpsters and locations

February 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Complete activities for future staging/transfer wastewater treatment operations at Building 79
 - Hazardous Waste Project
 - Continue consolidation movement of legacy Chemicals
 - Begin preparations for Heritage shipment in March
 - Complete walkdown of garage to identify possible lab pack eligible containers
 - Inorganic Treatment Project
 - Initiate and complete construction of Mixed Waste Processing Enclosure
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Await Batch 12 sample analysis results
 - Await Batch 11 approval from TSCA Incinerator/State of Tennessee
 - Complete consolidation tank modification at bulking area
 - Organic Treatment Project
 - Complete campaign development for current uncharacterized inventory