



Department of Energy

**Ohio Field Office
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MAY 14 2002

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-047-02

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 APRIL 1, 2002 THROUGH
APRIL 30, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF MAY 1, 2002
THROUGH MAY 31, 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 of April 1, 2002 through April 30, 2002, including anticipated work for the period of May 1, 2002 through May 31, 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 (USEPA) 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

Enclosures: As Stated

MAY 14 2002

Mr. James A. Saric
Mr. Tom Schneider

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DOE-0472-02

cc w/enclosure:

R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SRF-5J
V. Dastillung, FRESH
P. Dunn, FRESH
D. Sarno, FCAB
M. C. Wojciechowski, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Shupe, 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-N-0
T. Poff, Fluor Fernald, Inc./MS65-2
C. Sutton, Fluor Fernald, Inc./MS35
D. Whitaker-Sheppard, Fluor Fernald, Inc./MS44-O-N
ECDC, Fluor Fernald, Inc./MS52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT
APRIL 1, 2002 THROUGH APRIL 30, 2002, INCLUDING ANTICIPATED
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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1, 2002 through April 30, 2002 and anticipated work for the period May 1, 2002 through May 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.

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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

April 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Loaded 7,752 tons of material from waste pits
 - Shipped 63 railcars (UT56) of material for disposal at Envirocare

May 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Load 9,470 tons of material from waste pits
 - Ship 60 railcars (UT57) 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 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
 - Began and completed remodeling of North Bay at RIMA for soil relocation
 - Continued site preparation work for Liners 4 and 5
 - Completed Access Control Facility project
 - Completed Emergency Access Road construction
 - Completed Access Control Relocation OMTA Area
 - Completed construction of Valve House 6 road

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- Began installation of Soil/Water Status Nest PVC housings
- Completed CQC Summary of Results for Borrow Sub Areas Pre-conformance Sampling and Testing
- Completed removal of North Access Road
- Completed construction of LCS, LDS, and RLCS Cell 5 Extensions pipelines
- Began OSDF placement on April 4, 2002
- Continued work on Title III/CQC Services Request for proposal for negotiation with GeoSyntec
- Received Cell 1 Final Cover Red Line Drawings from IT Corporation and began review
- Began design on Borrow Area Excavation Plan for Cell 7 liner and Cells 4 through 7 caps

- Soil Characterization and Excavation Project (SCEP)
 - Completed planting in Radium Hotspot
 - Began site preparation on Borrow Area
 - Completed Area 2, Phase II Title I Design
 - Continued Area 3B/4B/5 Title I Design
 - Began sampling beneath Plant 6 Pad on April 11, 2002, as part of the 3A/4A Subsurface Predesign
 - Completed Area 6 (Solid Waste landfill and Fire Training Facility) Title I Design
 - Continued excavation of above WAC soil at Incinerator Pad (10D)
 - Continued Direct Push Aquifer Sampling
 - Continued sampling of the Pit 4 Cap material in Waste Pits Area
 - Continued concrete breaking/crushing in Area 3A
 - Completed scanning of Area 2, Phase I
 - Continued certification sampling in Area 2, Phase I
 - Began Real Time sampling in Area 2, Phase II, east of Haul Road Quadrants 1 and 4W
 - Continued additional Predesign sampling in Area 7
 - Continued Construction Laydown Yard
 - Began excavation of Basin #4 Southern Waste Unit
 - Completed Plant 6 Sump work
 - Continued site preparation work in Area 3A and 4A
 - Submitted final Deer Plan to DOE on April 15, 2002
 - Continued design for Northern Pines Restoration
 - Completed Sludge Sampling from Area 7 Trench on April 16, 2002
 - Began Radium (Ra) Hotspot Delineation in Area 2, Phase II
 - Completed sampling in Facilities Footprint for Area 7
 - Began Area 2, Phase II Title II Design

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- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title II Design
- Completed excavation of Area 2, Phase I - Perimeter Area (including Basin 2 and East/West portion of Haul Road)
- Completed modifications of the Wheel Wash
- Completed Draft Area 7 Excavation and Precertification Strategy, Phase I
- Began preparation of Implementation Plans for Area 2, Phase II, Area 6 Solid Waste Landfill/Fire Training Facility and Areas 3B/4B/5
- Surveyed all sample points in the Solid Waste Landfill and Fire Training Facility
- Began excavation of Basin 4 in Southern Waste Units
- Completed Area 2, Phase II Sampling and Analysis at the Arsenic Hot Spot
- Began Area 4B Potentially Characteristic Areas West of the Pilot Plant sampling
- Submitted second round of Response to Comments for Area 3A/4A Excavation Characterization PSP

May 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
 - Provide CQC Services for Borrow areas excavation/screening
 - Complete Cell 1 Cap
 - Complete conduit installation and electrical for Cell 1 Cap monitoring instrumentation
 - Complete site preparation work for Liners 4 and 5
 - Complete construction of Construction Laydown area
 - Begin receiving stone for Liner 4 and Liner 5
 - Begin clay excavation/screening in Borrow Area
 - Complete sub-grade for Cell 4 liner
 - Begin clay liner for Cell 4

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- Continue sub-grade for Cell 5 liner
- Provide CQC and Title III services for Cell 4 and Cell 5 liners construction
- Complete Title III/CQC services RFP for DOE approval prior to GeoSyntec negotiation

- **Soil Characterization and Excavation Project (SCEP)**
 - Continue Area 2 Phase II Title II Design
 - Continue Area 3B/4B/5 Title I Design
 - Continue Area 6 (Solid Waste Landfill and Fire Training Facility) Title II Design
 - Complete Incinerator Pad (10D) above WAC excavation
 - Complete certification sampling of Area 2 Phase I
 - Complete Restoration Design for Southern Waste Units, Phase I and issue to NRTs
 - Continue site preparation for excavation of Area 3A and Area 4A
 - Begin excavation of southeast corner of plant 9 above WAC area
 - Continue breaking concrete in Area 3A
 - Continue Plant 6 Sump work
 - Continue Area 7 precertification sampling in the footprint of the planned Treatment Facility and Warehouse
 - Begin Area 6 Solid Waste Landfill and Fire Training Facility sampling
 - Submit Response to Comments on Areas 3B/4B/5 Above WAC PSP
 - Complete excavation of Basin 4, Area 2, Phase I
 - Initiate restoration work in Southern Waste Units
 - Complete Arsenic Area Excavation
 - Continue breaking concrete in Area 4A
 - Submit Phase II Certification Report for Area 2 Phase II
 - Begin Lime Sludge Ponds excavation
 - Continue Preparation of Implementation Plans for Area 2 Phase II, Area 6 Solid Waste Landfill/Fire Training Facility, and Areas 3B/4B/5 Implementation Plans
 - Complete Spring planting in the Southern Waste Units Restoration Project
 - Complete Restoration Grading and Stabilization in Southern Waste Units
 - Complete seeding of Northern Pines Restoration Project
 - Submit Area 9 Phase I Certification Report to DOE by May 24, 2002

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OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

April 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Plant 6
 - Continued closure documentation and demobilization
 - Multi-Complex
 - Continued building closure, glovebag removal, removal of asbestos, purging of equipment and systems, removal of equipment and piping, lead removal, and interior transite removal in Building 2A
 - Continues asbestos abatement and equipment/system removal in Building 8H
 - Begin work in area of Building 53A, Safety and Health Building; air gap pipe bridge east side, establish staging/laydown area and gravel, begin asbestos abatement. Begin removal of atrium glass, install out building protection, and removal of glass windows on first floor
 - Begin mobilization in area of Building 64/65
 - Facilities Shutdown
 - Performed miscellaneous maintenance activities
 - Removed diesel fuel from behind and evacuated propane and air lines in the area of Building 53A

May 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Plant 6
 - Continue closure documentation
 - Multi-Complex
 - Continue work in area of Building 2A
 - Continue mobilization in area of Building 64/65
 - Continue work in Building 53A; begin equipment/system dismantlement and removal of ceiling tiles. Install out building protection
 - Facilities Shutdown
 - Continue closure documentation

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OPERABLE UNIT 4 - SILOS PROJECT

April 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Continued Silos 1 and 2 Accelerated Waste Retrieval (AWR) project construction activities; continued erection of Transfer Tank Area (TTA) Tanks and installation of pipe rack foundations; continued structural construction on Radon Control System (RCS) Air Handling Building
 - Completed preparation of Silo 3 Remedial Design (RD) package and issued for DOE and Internal review
 - Issued Silos 1 and 2 Preliminary Design Package to DOE and the Critical Analysis Team (CAT) for formal review
 - Initiated compilation of revised RD package for the AWR project
 - Presented update on Silos Projects status at April Cleanup Progress Briefing

May 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit Silo 3 RD Package to Agencies, meeting August 22, 2002 milestone
- Major Work To Be Initiated/Continued/Completed
 - Issue revised AWR RD Package to DOE for review
 - Respond to any DOE and/or CAT comments on Silos 1 and 2 Preliminary Design Package

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

April 2002

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for January 2002 to the Ohio EPA on April 19, 2002
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

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- Work Initiated/Continued/Completed
 - Continued work on geoprobings in the off-property portion of the South Plume.
 - Completed screen and well design for three replacement injection wells on April 18, 2002
 - Completed a Project Specific Plan (PSP) to investigate uranium partitioning on the sediments in the Great Miami Aquifer. Submitted the PSP to the Agencies on April 15, 2002
 - Submitted the NPDES Permit Renewal Application to Ohio EPA on April 30, 2002

May 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
 - Complete construction of Waste Storage Area Extraction System - Phase I and South Field Extraction System - Supplemental Well. (99.9% complete, waiting on thermostat to arrive)
 - Continue work on the design for the South Field phase II Extraction System and the three replacement injection wells
 - Begin work on a Project Specific Plan (PSP) to install additional monitoring wells in the South Field

WASTE MANAGEMENT

April 2002

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Consolidated aqueous wastes from four AWWT 1013 containers readied for AWWT treatment
 - Hazardous Waste Project
 - Began preparing for Heritage shipment on May 8, 2002
 - Heritage packaged drums from Blue Area maintenance, property and the Labs
 - Moved chemicals from Building 79 to Building 30/45 interim layout Area (ILA) for inclusion in heritage shipment

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- Inorganic Treatment Project
 - Continued construction on a mixed Waste Processing Enclosure in Building 79 to process/package inorganic Treatment project waste
- Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Shipped Batch 11 (Oily Phase) to the TSCA Incinerator on April 11, 2002
 - Received and forwarded supplemental lab sample analysis results needed before completing and submitting Batch 12 application to TSCA Incinerator and the State of Tennessee
- Organic Treatment Project
 - Continued RTR of Group B
 - Continued characterization of Group B
- Waste Minimization/Pollution Prevention
 - Continued monitoring new dumpsters and locations
 - Completed gathering data for Butler County 2001 Industrial Solid Waste Survey

May 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Complete AWWT Liquids Punch list
 - Hazardous Waste Project
 - Schedule Safety-Kleen for photochemical shipment from Springdale
 - Schedule Heritage for unused excess chemicals shipment
 - Inorganic Treatment Project
 - Complete construction of mixed Waste processing Enclosure
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Complete Batch 12 application for approval by TSCA Incinerator and State of Tennessee
 - Complete consolidation tank modification at bulking area
 - Organic Treatment Project
 - Complete campaign development for current uncharacterized inventory
 - Evaluate reuse of type 301 containers (CPC box) for use as alternative for overpack drums
 - Continue RTR of Group B containers