



Department of Energy

**Ohio Field Office
Fernald Area Office**

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4318

JUN 18 2002

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-0536-02

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 MAY 1, 2002 THROUGH
MAY 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF JUNE 1, 2002
THROUGH JUNE 30, 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 May 1, 2002 through May 31, 2002, including anticipated work for the period of June 1, 2002 through June 30, 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

JUN 18 2002

Mr. James A. Saric
Mr. Tom Schneider

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DOE-0536-02

cc w/enclosures:

- 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 enclosures:

- 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
- ECDC, Fluor Fernald, Inc./MS52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/
FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF
MAY 1, 2002 THROUGH MAY 31, 2002, INCLUDING ANTICIPATED
WORK FOR THE PERIOD OF JUNE 1, 2002 THROUGH JUNE 30, 2002**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from May 1, 2002 through May 31, 2002 and anticipated work for the period June 1, 2002 through June 30, 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 Ohio EPA (OEPA).

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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

May 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Loaded 10,763 tons of material from waste pits
 - Shipped 118 railcars (UT57 and UT58) of material for disposal at Envirocare

June 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None
- Major Work to be Initiated/Continued/Completed
 - Load 12,912 tons of material from waste pits
 - Ship 120 railcars (UT59 and UT60) 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
 - Continued remodeling of North Bay at RIMA for soil relocation
 - Continued site preparation work for Cells 4 and 5 liner
 - Began installation of Soil/Water Status Nest PVC Housings
 - Completed relocating power to Air Monitoring Cells 2 and 3
 - Completed Emergency Access Road construction
 - Began receiving geosynthetic for Cells 4 and 5 liner

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- Continued working on Contractors Laydown Area
- Initiated construction of New Borrow Area Haul Road
- Began fill for Cell 4 liner Sub-Grade, working on the east berm of Cells 4 and 5
- Continued removing topsoil for Cell Liners 4 and 5
- Completed excavation of perimeter ditch and installing pipe south of Cell 5
- Continued Sub-Grade for Cell 5 Liner
- Began site preparation on Borrow Area
- Continued placement of impacted materials in Cells 2 and 3

- Soil Characterization and Excavation Project (SCEP)
 - Continued Area 3B/4B/5 Title I Design
 - Continued Sampling beneath Plant 6 Pad as part of 3A/4A Subsurface Predesign
 - 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 and Area 4A
 - Completed certification sampling in Area 2, Phase I
 - Began Real Time Analyses in Area 2, Phase II, east of haul Road in Quadrants 1 and 4W
 - Continued sampling in Area 7, Facilities Footprint and K-65 Trench
 - Completed excavation of Basin #4 Southern Waste Units (SWU)
 - Began Real Time analyses of eastern portions of Area 5
 - Completed Physical Sampling of Radium Hot Spot near Paddy's Run in Area 2, Phase II
 - Continued design for Northern Pines Restoration
 - Began Area 2, Phase II, Title II Design
 - Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title II Design
 - Began excavation of southeast corner of Plant 9 Above WAC Area
 - Completed Arsenic Area excavation
 - Began Sampling for Area 4B Pilot Plant Sump (PSP)
 - Completed excavation of Basin 4, Area 2, Phase I
 - Continued restoration work in SWU
 - Initiated disking and seeding in Northern Pines
 - Began Lime Sludge Ponds excavation
 - Began Area 6 Solid Waste Landfill and Fire Training Facility Sampling
 - Submitted final Deer Management Plan to NRTs and Agencies on May 9, 2002, received OEPA approval on May 23, 2002

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- Complete Area 6 Solid Waste Landfill and Fire Training Facility sampling
- Complete 4B Pilot Plant Sampling
- Continue breaking concrete in Area 4A
- Submit Phase II Certification Report for Area 2 Phase II
- Continue Lime Sludge Ponds excavation
- Continue Spring planting in the SWU Restoration Project
- Complete Restoration Grading and Stabilization in SWU
- Complete seeding of Northern Pines Restoration Project
- Complete sampling beneath Plant 6 Pad as part of 3A/4A excavation control
- Continue excavation of Area 7, Phase I

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

May 2002

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Plant 6
 - Continued closure documentation
 - Multi-Complex
 - Continued work in area of Building 2A
 - Continued work in area of Building 64/65, establishing construction laydown area, removing interior transite, looking down the area outside and inside and removing Building 64 windows
 - Installed out building protection, removed equipment, power, materials and removed lead flashing from x-ray room
- Facilities Shutdown
 - Prepared for mercury removal; switches in Building 2A contain mercury

June 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None

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- Major Work to be Initiated/Continued/Completed
 - Plant 6
 - Continue closure documentation
 - Multi-Complex
 - Continue work in area of Building 2A
 - Begin Building 65 structural demolition
 - Begin structural steel removal in Building 53A

OPERABLE UNIT 4 - SILOS PROJECT

May 2002

- Enforceable Milestones Completed
 - Submitted the draft revised Silo 3 Remedial Design (RD) Package to the Agencies for review on May 13, 2002, satisfying the August 22, 2002 milestone
 - Submitted the draft Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project RD Package, Revision 2, to the Agencies for review on May 31, 2002, satisfying a June 3, 2002 milestone
 - Submitted a letter proposing a milestone date of August 1, 2003 for submittal of the Remedial Action (RA) Work Plan for waste retrieval operations to the Agencies, for their review, on May 31, 2002, satisfying a June 3, 2002 milestone
- Major Work Initiated/Continued/Completed
 - Continued AWR Project construction
 - Initiated preparation of the revised Proposed Plan (PP) for Silo 3
 - Submitted Civil/Site preparation Construction Package to the Agencies for their information
 - Prepared responses to DOE and Critical Analysis Team (CAT) comments on the Silos 1 and 2 Preliminary Design Package

June 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None
- Major Work to be Initiated/Continued/Completed
 - Submit Silo 1 and 2 Warehouse and Remediation Facility Foundation packages to the Agencies for information purposes
 - Conduct internal, DOE and CAT review of the Silo 3 Mechanical Package
 - Initiate Silo 3 Civil/Site preparation and Silo reinforcing construction activities
 - Submit initial drafts of PP for Silo 3 and Explanation of Significant Differences for Silos 1 and 2 to the Agencies for review

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- Continue soil sampling, excavation and disposition in preparation for Silos 1 and 2 construction activities
- Award contract for Silos 1 and 2 Clarifier System design support and fabrication
- Present update on Silos Project issues at FCAB meeting on June 15, 2002

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

May 2002

- **Enforceable Milestones Completed**
 - Submitted monthly NPDES Discharge Monitoring Report for April 2002 to the OEPA on May 20, 2002
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- **Work Initiated/Continued/Completed**
 - Submitted the March 2002 Monthly Re-Injection Operating Report on May 15, 2002 to the DOE for transmittal to the Agencies
 - Submitted the February 2002 Monthly Re-Injection Operating Report on May 1, 2002 to the DOE for transmittal to the Agencies
 - Completed construction of Waste Storage Area Extraction System - Phase I and South Field Extraction System - Supplemental Well; turned over to Operations on May 6, 2002
 - Off-Property South Plume Area Geoprobng; The fifteen originally planned locations were completed as of May 13, 2002. An updated access agreement with the landowner for additional locations has been obtained. One of four planned additional locations was completed as of May 31, 2002
 - Submitted the South Field Phase II Design Report to the DOE, this was transmitted to the Agencies on May 16, 2002

June 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 work on the design for the South Field Phase II Extraction System

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- Submit, to the DOE, a Project Specific Plan (PSP) to install extraction wells, injection well and additional monitoring wells in the South Field
- Begin core drilling of wells in the South Field Extraction System Phase II Module; the cores will be used to support well screen design

WASTE MANAGEMENT

May 2002

- Enforceable Milestones Completed
 - Dispositioned all product nuclear material offsite on May 15, 2002; meeting the June 1, 2002 milestone date
- Work Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Consolidated aqueous wastes from 18 AWWT 1013 containers readied for AWWT treatment
 - Continued AWWT Liquids Punch List
 - Hazardous Waste Project
 - Completed a two container Safety Kleen shipment on May 7, 2002
 - Completed a 27 container Heritage shipment on May 8, 2002
 - Completed Clean Side Storage Locker inspection in preparation for Electrical Waste Shipment
 - Completed shipment of 4 pallets of light tubes to Superior Services
 - 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)
 - Submitted Batch 12 application to TSCA Incinerator and the State of Tennessee for approval
 - Continued construction of Mixed Waste Processing Enclosure
 - Organic Treatment Project
 - Continued RTR of Group B
 - Established Vacuum Thermal Desorption (VTD) project Team and participated in VTD alignment meeting
 - Waste Minimization/Pollution Prevention
 - Completed Semi-annual Report

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June 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None
- Work to be Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Continue AWWT Liquids Punch List
 - Complete treatment/reassignment of Project Site Treatment Plan Inventory and AWWT 1001-10017 inventory
 - Hazardous Waste Project
 - Complete analysis of unknown legacy chemicals from MS-26
 - Inorganic Treatment Project
 - Complete construction of Mixed Waste Processing Enclosure
 - Complete MEF verifications for all released ITP campaigns and update SWIFTS
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Continue construction of Mixed Waste processing Enclosure
 - Await approval of Batch 12 Application from TSCA Incinerator and State of Tennessee
 - 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
 - Complete RTR of Group B containers
 - Sample Disposition
 - Develop additional Sample Disposition campaigns
 - Review Sample Disposition inventories for accelerated disposition