



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
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FEB 18 2003

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-0221-03

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 JANUARY 1, 2003
THROUGH JANUARY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
FEBRUARY 1, 2003 THROUGH FEBRUARY 28, 2003**

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, 200 through January 31, 2003, including anticipated work for the period of February 1, 2003 through February 28, 2003. 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

FEB 18 2003

DOE-0221-03

Mr. James A. Saric
Mr. Tom Schneider

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cc w/enclosures:

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

cc w/o enclosures:

R. Greenberg, EM-31/CLOV
F. Bell, ATSDR
M. Shupe, HSI GeoTrans
D. Carr, Fluor Fernald, Inc./MS2
T. Hagen, Fluor Fernald, Inc./MS9
T. Poff, Fluor Fernald, Inc./MS65-2
ECDC, Fluor Fernald, Inc./MS52-7

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This report describes actions at the Fernald Closure Project (FCP) (formerly the Fernald Environmental Management Project (FEMP) from January 1, 2003 through January 31, 2003 and anticipated work for the period of February 1, 2003 through February 28, 2003. 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.

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

January 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Loaded 12,944 tons of material from waste pits
 - Shipped 121 railcars, 12,956 tons (UT75 and UT76) of material for disposal at Envirocare

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Load 11,605 tons of material from waste pits
 - Ship 120 railcars (UT77 and UT78) of material for disposal at Envirocare

**OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND
EXCAVATION PROJECT (Additional OU2 soils-related activities may be reported under
OU5/Soils Characterization and Excavation Project)**

January 2003

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF) - None
 - Soils Characterization and Excavation Project (SCEP) - Submitted Area 9 Phase II CDL to EPA, January 13, 2003

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- Work Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Completed Installation of horizontal monitoring well and RCS/RRCS/LDS tie-ins for Cell # 6
 - Continued Part 2 of Remodeling of RIMIA for OSDF/SCEP Relocation
 - Continued Title III and CQC services for OSDF Construction
 - Completed excavation of OSDF Sed Basin #2
 - Started Site Prep for Cell 6 liner
 - Start receiving Cap 2 rock and stone and inspection of GCL material
 - Award new Surveying Subcontract to support OSDF
 - Soils Characterization and Excavation Project (SCEP)
 - Continued Concrete Breaking/Crushing in Area 3A and Area 4A
 - Continued AWAC excavation in Area 3A and 4A
 - Continued excavation of Fire Training Facility including removal of AWAC, Tc 99, and uranium
 - Continued Restoration work, as weather permitted, in Southern Waste Units and Northern Pines
 - Continued maintenance of Organic Soil stockpile
 - Began removing stockpile AR6-003 from current footprint and moving it to OSDF
 - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B/5
 - Continued Pre-certification of Area 6 Phase I
 - Continued Area 7 Sector 3 Predesign Investigation
 - Continued Area 8 Phase III Pre-certification PSP
 - Continued Pre-certification of Area 9 Phase II

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF) - None
 - Soils Characterization and Excavation Project (SCEP) - None
- Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continue Title III services and CQC Services for OSDF Construction
 - Complete Part 2 of remodeling of RIMIA for OSDF/SCEP relocation
 - Continue Restoration of Borrow Area 1 and 2
 - Start transite placement in Cell # 4
 - Continue Site Prep for Cell 6 liner
 - Continue to receive Cap 2 rock and stone
 - Soils Characterization and Excavation Project (SCEP)
 - Continue concrete breaking/crushing in Area 3A and 4A
 - Continue AWAC excavation of Area 3A and Area 4A

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- Complete excavation of Fire Training Facility including staging of F-listed soil in AR6-003 footprint
- Continue Restoration work, as weather permits, in Southern Waste Units and Northern Pines
- Continue maintenance of Organic Soil Stockpile
- Submit final Solid Waste Landfill and Fire Training Facility IRDP
- Submit Response to Comments Area 2 Phase II IRDP
- Continue Predesign WAC and FRL Attainment sampling for Areas 3B/4B/5
- Complete Area 6 Phase I Pre-certification
- Submit Area 6 Phase I CDL/PSP
- Continue Area 7 Sector 3 Predesign Investigation
- Submit Area 7 Phase I As-built Report
- Start and complete Radium 226 hotspot in Area 8 Phase III north
- Complete Area 8 Phase III Pre-certification PSP
- Submit Area 8 Phase III north CDL/PSP
- Submit Area 9 Phase II PSP

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

January 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Plants 2,3,8 & GS (Task 1):
 - Plant 2 - 2A, Digestion, Extraction and Denitration - Interior transite removal.
 - Plant 3 - 3E, Install lighting and seal building. 3J & 3D, plasma arc training, size reducing NAR Towers and tanks.
 - Plant 8 - Install lighting, seal building, interior transite removal 1st and 2nd floor, non-process equipment removal.
 - Lab (Task 6)
 - 15A - Building preparation, seal and maintain. Temporary power completed December 26. Asbestos preparation southeast and southwest areas.
 - Pilot Plant (Task 3)
 - Building 13A - Asbestos abatement and building equipment vestibule; remove process piping.
 - Building 37 - Completed beryllium remediation, equipment/system removal. Completed structural demolition on January 29, 2003. Size reduction and load-out of Building 37 debris.

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- Utility Redistribution/Facilities Shutdown:
 - Utility Redistribution - Completing punch list work for replacement steam heat source in Bldg 46. Performing 13.2 Kv system redistribution for T-57, T-58 and WPRAP. planning redistributions required for the Liquid Storage Complex. Installing lift station for Excavation Area 4B utility redistribution.
 - Facilities Shutdown - Continuing planning utility isolations for Building 26A, Excavation areas 3B, 4B and the Administration Complex.

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1):
 - 2A - Equipment/system removal for all three areas.
 - 3D & 3J - shear tanks, equipment and structural steel.
 - 3E - Building Prep, gross washdown.
 - 8A - Install lighting, seal, remove interior transite on 1st and 2nd floor, non-process equipment removal, beryllium removal.
 - General - Process Piping Inspections.
 - Lab (Task 6):
 - Building 15A - Preparation for asbestos abatement centerwest, building preparation and maintain seal. Asbestos abatement southeast and southwest.
 - Liquid Storage & Pilot Plant (Task 2/3):
 - Building 13A - Asbestos abatement, equipment/system dismantlement.
 - Building 13C - Structural demolition.
 - Building 13D - Tank Farm equipment/system removal.
 - Building 37 - Ongoing size reduction and load-out of debris.
 - Utility Redistribution/Facilities Shutdown:
 - Continue Building 26A utility isolations.
 - Complete Building 46 heating punch list items.
 - Continue planning utility isolations for Building 26A, Excavation areas 3B, 4B and the Administration Complex.
 - Perform 13.2 Kv system redistribution for T-57, T-58 & WPRAP.
 - Plan redistributions required for the Liquid Storage Complex.

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OPERABLE UNIT 4 - SILOS PROJECT

January 2003

- Enforceable Milestones Completed
 - None

- Work Initiated/Continued/Completed
 - Initiated installation of the equipment deck above the AWR Project Transfer Tank Area (TTA)
 - Held technical briefing on the Silos 1 and 2 Remediation Facility for the OEPA and USEPA (1/28/03)
 - Initiated design for the necessary facility modifications identified from review of the results of the first RCS test run. Developed scope and criteria for subsequent testing.
 - Continued installation of the Silo 3 remediation facility, and Silo 1 and 2 Remediation Facility foundations.
 - Continued construction of the Silos 1 and 2 warehouse and rail spur
 - Continued vendor equipment design activities for Silo 3 and Silos 1 and 2 projects
 - Received notice from the USEPA extending the date for receipt of EPA comments on the draft Final revised proposed Plan for Silo 3 to 2/4/03

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

- Work To Be Initiated/Continued/Completed
 - Submit responses to final OEPA comments on the AWR Project RD package to the OEPA and USEPA.
 - Receive and initiate responses to USEPA/OEPA comments on the Silos 1 and 2 RD Package
 - Receive USEPA/OEPA comments on the draft final Revised Proposed Plan for Silo 3
 - Present public technical briefing on the Silos 1 and 2 Remediation facility
 - Develop plans and schedule for further testing and continuous operation of the RCS
 - Initiate construction of the equipment deck above the Transfer Tank Area Tanks
 - Continue installation of the Silo 3 remediation facility, and Silo 1 and 2 Remediation Facility foundations.
 - Continue construction of the Silos 1 and 2 warehouse and rail spur
 - Continue vendor equipment design activities for Silo 3 and Silos 1 and 2 projects

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OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

January 2003

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for December to the OEPA on January 13.

- Work Initiated/Continued/Completed
 - AWWT Phase II System: The ion exchange resin used to remove uranium from wastewater in the AWWT Phase II system is not performing as well as it has previously. During January, high concentrations of uranium in the effluent from this treatment system nearly caused an exceedance of the 30 ppb monthly average uranium limit to the Great Miami River (the January monthly average was 28.9 ppb).
 - During January, the ion exchange resin (used to remove uranium from the water) was replaced in 2 of the 3 vessels comprising the system in efforts to reduce the effluent uranium concentrations. These efforts were not successful in reducing the uranium levels to an acceptable range, therefore the Phase II system was shut down in an effort to achieve the 30 ppb uranium discharge limit. Sampling of the influent to the Phase II system was conducted prior to the shut down to determine the concentrations of contaminants suspected to be interfering with the uranium removal capacity of the resin.
 - Plans are being developed to address the various wastewater constituents that may be reducing the effectiveness of the ion exchange resin.
 - Continued groundwater modeling in support of determining whether additional groundwater restoration wells are required in the off-property portion of the South Plume

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA.

- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells.
 - Continue construction activities for the installation of the infrastructure phase of the South Field Extraction System Phase II project.
 - Determine the cause for the high uranium concentrations in the AWWT Phase II effluent. Begin evaluating alternatives for reducing the Phase II effluent uranium concentrations.
 - Continue groundwater modeling in support of determining the need for additional groundwater restoration wells in the off-property portion of the

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- Develop the horizontal till well for Cell 6. Begin baseline sampling of this well.
- Complete the Ohio Department of Natural Resources (ODNR) annual water withdrawal report for 2002. Submit report to ODNR prior to March 2, 2003.

WASTE MANAGEMENT

January 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - HAZARDOUS WASTE PROJECT
 - Safety Kleen shipment completed on 1/28. Due to a schedule conflict, the Heritage Labpack shipment has been pushed back a week until 3/3.
 - INCINERATOR LIQUIDS
 - Batch 13 sample analysis results expected in mid February. Batch 13 consolidated MEF being developed. Batch 13 TSCA Incinerator application initiated.
 - SAMPLE DISPOSITION
 - Continued sorting of samples for offsite disposition, bulking into Incinerator Liquid Project, or treatment through AWWT.
 - Wise Construction continued with the facility upgrade of Bldg. 68.
 - The TeeMark can crusher which will be installed in Bldg. 68 was shipped from Wisconsin on 1/28.
 - WASTE MINIMIZATION/POLLUTION PREVENTION
 - Transferred 30 boxes of 4ft and 3 boxes of 8ft fluorescent light tubes from the lab building to the Clean Side Hazardous Waste Storage Locker
 - ORGANIC TREATMENT PROJECT
 - Completed 150 Vacuum Thermal Desorption (VTD) System Operability Test (SOT) container inventory marking, labeling and rad surveys. Loaded first VTD truck with 57 drums. Completed processing and packaging 36 PCB waste containers, including the remaining First Article Test PCB waste inventory. Some of these containers will be a segment of the VTD SOT shipment. Received approval on the 4 remaining VTD profiles on 1/24.

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- INORGANIC TREATMENT PROJECT
 - MERCURY
 - M&EC completed treatment of Mercury waste received as part of the 2002 STP inventory. The LDR certification for Mercury waste was received on 1/16.
 - SOILS, SLUDGES, DEBRIS (SSD)
 - Received notification from Envirocare that the first treatability study on the barium carbonate waste was not successful. Envirocare will try another treatability study in February.
 - Received third invoice from WCS for Inorganic Treatment Project (ITP) waste treatment. A total of 85,048 Kg of the 108,123 Kg shipped to date has been treated.

February 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - INCINERATOR LIQUIDS
 - Batch 13 sample analysis results expected in mid February. Complete consolidated Batch 13 MEF and complete/submit TSCA Incinerator Batch13 application on receipt of Batch 13 sample analysis results.
 - SAMPLE DISPOSITION
 - Resume operations at the AWWT.
 - Install the TeeMark Crusher that was shipped from the manufacturer on 1/28.
 - ORGANIC TREATMENT PROJECT
 - Complete profiles and delivery order for containers designated under the Global BOA contract.
 - Ship VTD SOT containers.
 - Schedule Fire Training Facility (FTF) soil shipments.
 - Complete first SOT shipment for week of 2/4. Schedule second and third SOT shipments for week of 2/18 and 2/24.
 - INORGANIC TREATMENT PROJECT
 - MACROENCAPSULATION
 - Treatment of lead waste at Envirocare expected to begin in February 2003 with disposal scheduled for April 2003.

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- SOILS, SLUDGES, DEBRIS
 - Ship ISOI-1001, Barium Carbonate, to Envirocare in February upon approval of Treatability Study at Envirocare.