



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
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NOV 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-0092-03

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 OCTOBER 1, 2002
THROUGH OCTOBER 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
NOVEMBER 1, 2002 THROUGH NOVEMBER 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 October 1, 2002 through October 31, 2002, including anticipated work for the period of November 1, 2002 through November 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

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DOE-0092-03

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
A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, 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

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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OCTOBER 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
NOVEMBER 1, 2002 THROUGH NOVEMBER 30, 2002**

This report describes actions at the Fernald Environmental Management Project (FEMP) from October 1, 2002 through October 31, 2002 and anticipated work for the period of November 1, 2002 through November 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 OEPA.

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

October 2002

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Loaded 12,498 tons of material from waste pits
 - Shipped 119 railcars, 13,826 tons (UT68 and UT69) of material for disposal at Envirocare

November 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None
- Work to be Initiated/Continued/Completed
 - Load 13,771 tons of material from waste pits
 - Ship 120 railcars (UT70 and UT71) 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)

October 2002

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF) - None
 - Soils Characterization and Excavation Project (SCEP) - None
- Work Initiated/Continued/Completed

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- On-Site Disposal Facility
 - Completed placement of impacted materials in Cell 2
 - Completed Borrow Area Clay Screening for this construction season
 - Completed Cell 4 and Cell 5 geosynthetic liner (GCL/GML) installation
 - Completed placement of drainage layers in Cells 4 and 5 Liners
 - Continued Cells 4 and Cell 5 geotextile placement
 - Continued Cells 4 and 5 clay wedge construction
 - Continued Part 2 of Remodeling of RIMIA for OSDF/SDFP Relocation
 - Continued Title III and CQC services for OSDF Construction
 - Began excavation of impacted material Sedimentation Basin #2

- Soil Characterization and Excavation Project (SCEP)
 - Continued sampling beneath Plant 6 Pad as part of 3A/4A subsurface predesign
 - Completed excavation of above WAC soil at Incinerator Pad (10D)
 - Continued Concrete Breaking/Crushing in Area 3A and Area 4A
 - Continued excavation of Area 4A (Plant 5)
 - Continued Restoration work in Southern Waste Units
 - Continued maintenance of Organic Soil stockpile
 - Completed the excavation of K-65 Trench
 - Continued Area 7 Phase I Pre-certification PSP
 - Continued Area 8 Phase III Pre-certification PSP
 - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B/5
 - Completed Debris removal and soil excavation of former Lay Down area in Area 2 Phase II
 - Continued excavation of southeast corner of Plant 9 above WAC area
 - Began Site Prep of Fire Training Facility
 - Began Pre-certification of Area 9 Phase II
 - Began Pre-certification of Area 6 Phase I
 - Continued to haul soil from Area 7 (Silos) and stockpile in Area 3A

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November 2002 (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
 - Continue Title III services and CQC Services for OSDF Construction and Borrow areas
 - Complete gray clay excavation in Borrow Area
 - Continue Part 2 of remodeling of RIMIA for OSDF/SDFP relocation
 - Continue placement of impacted materials in Cell 3
 - Complete geotextile placement in Cells 4 and Cell 5
 - Complete Cells 4 and 5 clay wedge construction
 - Start and complete 12 inch protective impacted layer for Cell 4 and Cell 5
 - Start Restoration of Borrow Area
 - Continue Sed Basin #2 excavation
 - Start Cell 4 liner and Cell 5 Liner Two ft Select Impacted Layer

 - Soil Characterization and Excavation Project (SCEP)
 - Complete excavation of southeast corner of plant 9 above WAC area
 - Complete breaking concrete in Area 3A
 - Complete breaking concrete in Area 4A (Plant 5)
 - Complete sampling beneath Plant 6 pad as part of 3A/4A excavation control
 - Continue sampling for Area 3B/4B/5 AWAC PSP
 - Continue Restoration Work in Northern Pines
 - Continue Area 9 Phase II Pre-certification
 - Submit final Area 2 Phase II IRDP
 - Submit final Solid Waste Landfill and Fire Training Facility IRDP
 - Start excavation of Fire Training Facility
 - Continue concrete crushing in remainder of Area 4A (other than Plant 5)
 - Complete excavation of Area 4A (Plant 5)
 - Continue excavation of Area 3A and remainder of Area 4A
 - Start installation of horizontal well for Cell #6
 - Continue maintenance of Organic Soil Stockpile
 - Complete Area 7 Phase I Pre-Certification PSP
 - Continue Area 8 Phase III Pre-Certification PSP

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- Continue Pre-design WAC and FRL Attainment sampling for Areas 3B/4B/5
- Continue Area 6 Phase I Pre-certification
- Submit Area 6 Phase I CDL/PSP
- Complete Area 7 excavation and haul to stockpile

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

October 2002

- Enforceable Milestones Completed
 - Submitted the Administration Complex Phase I Project Completion Report to DOE on October 15, 2002
 - Submitted the MSS Task #086 Project Completion Report to DOE on October 23, 2002
- Work Initiated/Continued/Completed
 - Plant 2
 - Continued glovebag removal in Extraction area
 - Continued final cleaning/lockdown and equipment/system removal in Denitration area
 - Continued to shear, size and load transition pipe rack
 - Began asbestos abatement, shearing, size reduction, and loading of tanks north of Bldg. 2D
 - Plant 3
 - Completed 39A size reduction and loadout on October 1, 2002
 - Continued asbestos abatement/3J asbestos glovebag removal
 - Began 3J asbestos glovebag removal
 - General Sump
 - Began 3H equipment and system removal
 - Began shearing, size reduction, and loading of 18B tank
 - Pilot Plant
 - Continued general site preparation activities and installation of 5-plex control point trailer
 - Continued glovebag removal of miscellaneous pipe
 - Began Bldg. 54A bag house preparation

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- Bldg. 37 asbestos abatement and bag house washdown
- Bldg. 13B glovebag removal and floor tile/mastic removal
- Bldg. 13A setup of air machines/wastewater tanks, and removal of bird droppings
- Bldg. 13C enclosures in main vestibule, asbestos abatement and final cleaning

- Plant 8
 - Began 8A Bldg. Preparation, installation of lighting, sealing, and asbestos abatement

- Utility Redistribution/Facilities Shutdown
 - Continued procurement to replace steam heat source for Buildings 82A, 31 and 46
 - Continued parking lot and Telephone Hut light re-feed
 - Continued freon removal from Laboratory equipment and drain trap removal
 - Isolated electric to Bldg. 13B and removed HVAC unit from building
 - Began planning and performing Lab utility isolations
 - Relocated site paging system from Bldg. 16B to Bldg. 23B
 - Began installing lift station for excavating Area 4B utility redistribution

November 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None

- Work to be Initiated/Continued/Completed
 - Plant 2
 - Continue shearing, size reduction, and loading of tanks north of Bldg. 2D
 - Continue to shear, size reduce, and load equipment and miscellaneous debris from Bldg. 2A Digestion Area and Denitration Area
 - Continue building preparation and asbestos abatement in Bldg. 2B/C

 - Plant 3
 - Component 3J - Continue asbestos abatement
 - Component 3D - Begin takedown of NAR towers

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- Bldg. 3E - Begin building preparation
- Plant 8
 - Bldg. 8A - Continue asbestos abatement and equipment systems removal
- Pilot Plant
 - Bldg. 13A - Begin building preparation and asbestos abatement
 - Bldg. 13B - Begin shearing, size reduction, and loading structural steel
 - Bldg. 54A - Remove transformer, continue building preparation, and asbestos abatement

OPERABLE UNIT 4 - SILOS PROJECT

October 2002

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Completed installation of relief valves and piping connections from Silos 1 and 2 to the Radon Control System (RCS).
 - Completed remaining construction turnover items necessary for RCS Phase 1 Operations
 - Conducted operability testing and management assessment activities in preparation for the initiation of RCS Phase 1 operations. Based upon input from the Management Assessment team, the decision was made that, although the capability was in place to safely initiate RCS Phase 1 operations, additional time was necessary to complete procedure development, drills, and other administrative requirements. Approval was received from the USEPA on 10/30/02 to extend the milestone for initiation of RCS phase 1 operations to December 16, 2002.
 - Received approval of the Accelerated Waste Retrieval (AWR) Project Remedial Design (RD) Package from the USEPA; received approval of the RCS portion of the package from the OEPA.
 - Received approval from the USEPA on the Remedial Action (RA) Work plan for RCS Phase 1 Operations. Received concurrence from the OEPA to initiate Phase 1 operations, contingent upon DOE's commitment to provide a date for initiation continuous operation to OEPA by 3/15/03.

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- Continued site preparation construction for the Silo 3 and Silos 1 and 2 Remediation Facility Projects

November 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - None
- Work to be Initiated/Continued/Completed
 - Receive comments from the USEPA on the draft revised Proposed Plan for Silo 3; meet with OEPA and USEPA to resolve comments and develop path forward for finalization of the PP
 - Complete preparations, documentation, and drills for RCS Phase 1 operation. Declare readiness to operate and initiate Fluor Fernald Standard Startup review (SSR) and DOE Readiness Assessment (RA).
 - Initiate excavation for the Silo 3 remediation facility foundation.
 - Continue excavation and site preparation construction for the Silo 1 and 2 Remediation facility foundation.
 - Continue vendor design activities for Silo 3 and Silos 1 and 2 projects
 - Receive and respond to final OEPA comments on the AWR Project RD Package

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

October 2002

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for September to OEPA on October 17, 2002
 - Submitted the NPDES Noncompliance Report for September 2002 to the OEPA on October 18, 2002
- Work Initiated/Continued/Completed
 - Submitted the Second Quarter 2002 Re-Injection Operating Report to the EPAs on October 24, 2002.
 - Transmitted responses to OEPA comments on, and EPA disapproval of the Design for Remediation of the Great Miami Aquifer South Field Phase II Module to the EPAs on October 24, 2002.
 - Transmitted response to OEPA conditional approval of the Draft Final Technical Memorandum for the On-Site Disposal Facility Cells 1, 2, and 3 Baseline Groundwater Conditions to the EPAs on October 22, 2002.

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- Completed the installation of the South Field Extraction System Phase 2 Extraction and Injection Wells.

November 2002 (Anticipated)

- Enforceable Milestones to be Completed
 - Submit monthly NPDES Discharge Monitoring Report for October to OEPA
- Work to be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells
 - Continue to perform maintenance/rehabilitation on injection and extraction wells.
 - Subcontractor to begin fieldwork for installing of infrastructure phase of South Field Phase II Extraction System construction.
 - Complete development of additional South Field Monitoring Wells.
 - Complete installing above grade infrastructure for the three replacement property boundary injection wells.
 - Begin injecting treated groundwater in 2 of the 3 wells.

WASTE MANAGEMENT

October 2002

- Enforceable Milestones Completed
 - Completed shipping of Batch 12 waste to the TSCA incinerator on October 3, 2002
- Work Initiated/Continued/Completed
 - Mixed Waste Project
 - Awarded Global BOA contract to Perma-fix Environmental Service, Envirocare of Utah and Waste Control Specialists on 10/15. Initiated first delivery order for barium carbonate on 10/16.
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Consolidated aqueous waste from 57 AWWT containers (16,951 pounds) and readied for AWWT treatment

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- Hazardous Waste Project
 - Heritage Environmental Services shipped 37 containers to 3 off site disposal facilities on 10/8.

- Inorganic Treatment Project (ITP)
 - Macroencapsulation
 - STP Lead shipments are complete. Received lead waste status report from Envirocare on 10/17. Treatment of lead waste is scheduled for week of 12/15 with disposal scheduled for April 2003
 - Soils, Sludges, Debris
 - Completed shipment of 68 containers to Waste Control Specialists

- Incinerator Liquids (Liquid mixed Waste Bulking Project)
 - Shipped 22,019 pounds (Shipment 5) of Batch 12 waste to the TSCA Incinerator on 10/3 thereby completing Batch 12 shipments.
 - Initiated Batch 13 bulking with transfer of liquid waste from 135 containers (41,801 pounds) into the Batch 13 consolidation tank.

- Organic Treatment Project
 - Completed site visit to Envirocare on 10/29. The Transportation Plan and Thermal Desorption Deployment Plan were finalized by Envirocare
 - Continued planning for PCB treatment. M&EC received letter from USEPA stating solvent extraction of PCBs from media is acceptable without permit.

- Sample Disposition
 - The EM-50 task team is investigating field instrumentation for characterizing the sample inventory. Initiated the work to sort, inventory and segregate the samples in the containers.
 - Drawings/specifications have been completed for the modification to Bldg. 68 to accommodate the work.

- Waste Minimization/Pollution Prevention
 - Shipped 12 pallets of lead acid batteries on October 14.
 - Shipped one 16-gallon drum from the Springdale location on 10/24 for silver recycle.

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November 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

- Work To Be Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Continue consolidation of aqueous waste from AWWT Campaign

 - Incinerator Liquids (Liquid mixed Waste Bulking Project)
 - Complete Batch 13 bulking operations

 - Sample disposition
 - Complete Work Authorization Package for Sample Disposition

 - Hazardous Waste Project
 - Modify the Heritage contract to include radiological activities

 - Waste Minimization/Pollution Prevention
 - Prepare and submit the two DOE Pollution Prevention reports due November 15 and November 30

 - Organic Treatment Project
 - Complete profiles for Vacuum Thermal Desorption (VTD) Systems Operability Test (SOT) waste. Begin development of profiles for 242 containers destined for M&EC under the global BOA contract.
 - Plan development of work packages to begin processing and packaging operations for SOT inventory and continue with additional operations in preparation for shipments planned for next year.
 - Two treatability study sample drums are scheduled to be shipped to Envirocare the week of 11/11