



Department of Energy
 Ohio Field Office
 Fernald Environmental Management Project
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4907

JUN 17 2003

Mr. James A. Saric, Remedial Project Manager
 United States Environmental Protection Agency
 Region V, SR-6J
 77 West Jackson Boulevard
 Chicago, Illinois 60604-3590

DOE-0414-03

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 MAY 1, 2003 THROUGH
 MAY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF JUNE 1, 2003
 THROUGH JUNE 30, 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 of May 1, 2003 through May 31, 2003, including anticipated work for the period of June 1, 2003 through June 30, 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 Johnny W. Reising at (513) 648-3139.

Sincerely,

Glenn Griffiths
 Acting Director

FCP:Reising

Enclosure: As Stated

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DOE-0414-03

Mr. James A. Saric
Mr. Tom Schneider

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cc w/enclosure:

N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SR-6J
V. Dastillung, FRESH
P. Dunn, FRESH
D. Sarno, FCAB
M. Cullerton, Tetra Tech;
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
F. Bell, ATSDR
M. Shupe, HSI GeoTrans
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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, 2003 THROUGH MAY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF JUNE 1, 2003 THROUGH JUNE 30, 2003

This report describes actions at the Fernald Closure Project (FCP) from May 1, 2003 through May 31, 2003, including anticipated work for the period of June 1, 2003 through June 30, 2003. The 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

May 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Loaded 20,998 tons of material from waste pits
 - Shipped 187 railcars (UT82, UT 83, and UT84) of material for disposal at Envirocare

June 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Load 16,355 tons of material from waste pits
 - Ship 180 railcars 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)

May 2003

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soils Characterization and Excavation Project (SCEP)
 - None
- Work Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continued Title III and CQC services for OSDF Construction
 - Completed Site Prep for Cell # 6 liner
 - Continued excavation of subgrade for Cell # 6 Liner and started compacted clay liner

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- Started receiving Cell # 6 Liner drainage layer material
- Completed contouring layer Cell # 2 Cap and started compacted clay cap
- Continued transite placement in Cell # 4
- Continued impacted material placement in Cell # 3 and # 4
- Completed Cell # 5 liner 2 ft select impacted layer
- Completed restoration of Borrow Area 1 and 2
- Continued new water well construction
- Continued receiving Geotextile, GML, and GCL materials for Cell # 2 Cap and Cell # 6 Liner
- Started mobilization of borrow area screening equipment
- Soils Characterization and Excavation Project (SCEP)
 - Continued Concrete Breaking in Area 4A
 - Continued excavation in Area 3A and 4A and AWAC excavation in Area 4A
 - Solid Waste Landfill excavation has been re-scheduled to start in October 2003
 - Continued Restoration work in Southern Waste Units and Northern Pines
 - Completed staging of F-listed soil in AR3-007 footprint
 - Continued maintenance of Organic Soil stockpile
 - Completed submittal of Organic Soil Treatment Plan
 - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B
 - Completed Response to Comments Area 2 Phase II IRDP
 - Completed Area 6 Phase I CDL/PSP
 - Completed Area 7 Phase I As-built Report
 - Started and completed Radium 226 hotspot in Area 8 Phase III north
 - Completed Area 8 Phase III Pre-certification
 - Continued to remove soil from Silos 1,2,3 and stockpile for cell placement
 - Continued Sitewide Predesign/Excavation Control PSP development
 - Continued Stream Corridors/Silo Area Predesign PSP development

June 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soils Characterization and Excavation Project (SCEP)
 - Submit Area 8 Phase III CDL to EPA May 31, 2003
- Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continue Title III services and CQC Services for OSDF Construction
 - Continue transite placement in Cell # 4
 - Continue impacted material placement in Cell # 3, 4 and 5
 - Complete receiving Geotextile, GML, and GCL materials for Cell # 2 cap
 - Complete Cell # 2 cap 2 ft clay layer placement
 - Start Cell # 2 cap GCL and GML layers
 - Complete receiving Cell # 6 Liner drainage layer material
 - Continue Cell # 6 compacted clay liner
 - Complete new water well construction
 - Complete mobilization and start screening operation in Borrow Area

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- Soils Characterization and Excavation Project (SCEP)
 - Continue concrete breaking in Area 4A
 - Continue excavation in Area 3A and Area 4A and AWAC excavation in Area 4A
 - Mobilize and start concrete crushing operations for Area 3A stockpile
 - Complete Restoration work Southern Waste Units and Northern Pines
 - Continue maintenance of Organic Soil Stockpile
 - Start and complete Area 2 Phase II Radium Hot Spot excavation
 - Continue Predesign WAC and FRL Attainment sampling for Areas 3B/4B
 - Complete Area 3B/4B/5 IRDP Response to Comments
 - Complete Area 6 Phase I CDL/PSP Response to Comments
 - Start Area 6 Phase I certification
 - Submit Area 8 Phase III North CDL/PSP
 - Submit Final Area 9 Phase II CDL/PSP
 - Continue to remove soil from Silos 1,2,3 and stockpile for cell placement
 - Submit OU1/SP-7 Predesign PSP
 - Continue Sitewide Predesign/Excavation Control PSP development
 - Complete Stream Corridors/Silo Area Predesign PSP development

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

May 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1)
 - 2A - Equipment/system removal and interior transite removal for Denitration/Digestion/Extraction; roof tanks asbestos abatement; Acid brick removal; process piping inspections; shearing tanks on the north side of 2A was completed May 15
 - 3E - Performed gross washdown
 - 3J - Material processing
 - 8A - Building maintenance; asbestos abatement; removed interior transite on 1st and 2nd floors; process and non-process equipment removal; beryllium contamination removal; asbestos removal; NaOH tanks preparation
 - 18D - Structural demolition completed May 21; debris sizing and loading ongoing
 - General Sump - Shearing of 2A north and south tanks in this area
 - Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal; asbestos abatement center west; thorium cleanup; southwest basement asbestos preparation
 - All areas - Floor tile removal in all areas (mastic remaining)
 - Liquid Storage & Pilot Plant (Task 2/3)
 - Building 13A - Removal of Phase II non-process piping; interior transite removal; Phase II north gross washdown

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- Building 54A - Reactor tower area equipment/system removal
- Tanks T3, T4, T5, and T6 are being reduced
- Utility Redistribution/Facilities Shutdown
 - Continued utility isolations for Building 26 and Excavation areas 3B and 4B
 - Completed planning redistributions required for the Liquid Storage Complex and Administration complex
 - Removal of hold-up material found in Plant 2/3 tanks

June 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 in Extraction; roof tanks asbestos abatement; interior transite and acid brick removal in Denitration/Digestion/Extraction
 - 3E - Gross washdown; building preparation
 - 3J - Material processing
 - 8A - Building maintenance; asbestos abatement; remove interior transite on 1st and 2nd floors; process and non-process equipment removal; beryllium contamination removal; Hazardous Waste Management Unit (HWMU) #14 rinsing and sampling; build containments for NaOH tanks
 - 18D - Complete size reduction and loading
 - General Sump - Material processing
 - Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal; asbestos abatement center west; thorium cleanup; fume hood and mercury removal; complete floor tile and mastic removal throughout
 - Pilot Plant (Task 3)
 - Building 13A - Remove Phase II process non-process piping; interior transite removal; washdown survey; gross washdown
 - 13D - Tank equipment/system removal
 - Building 54A - Reactor tower area equipment/system removal
 - Building 54A south - Set up Rupp tent; shear, size and load equipment from Plants 2, 3, and 8
 - Liquid Storage (Wise work)
 - Kick-off meeting and begin mobilization for Bldgs. 45 and 80
 - Utility Redistribution/Facilities Shutdown
 - Continue utility isolations for Excavation areas 3B and 4B
 - Continue redistributions required for the Liquid Storage Complex



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OPERABLE UNIT 4 - SILOS PROJECT

May 2003

- Enforceable Milestones Completed
 - Continuous Phase 1 Operation of the Radon Control System (RCS) was initiated, satisfying a 5/23/03 milestone
- Work Initiated/Continued/Completed
 - Formal public review of the Final Proposed Plan for Silo 3 was completed 5/30/03; a public hearing was held 5/13/03 (No public comments were received); preparation of the draft Record of Decision (ROD) Amendment was initiated
 - Preparation of the draft revised Remedial Design (RD) Package for the Silo 3 Project was initiated
 - The Explanation of Significant Differences (ESD) for Silos 1 and 2 was drafted and submitted for DOE review
 - The protective plywood caps were removed from the domes of Silos 1 and 2 in preparation for erection of the retrieval bridges over the silos
 - Initial berm excavation, installation of crane pads and bridge foundations, and steel fabrication took place in preparation for erection of the retrieval bridges over the silos
 - Continued construction of the Silo 3 and Silos 1 and 2 Remediation facilities

June 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Submit draft Explanation of Significant Differences (ESD) for Silos 1 and 2 to EPA for review
 - Submit draft ROD Amendment for Silo 3 to DOE for review
 - Conduct demonstration of Silo 1 and 2 dome penetration and riser installation on Silo 4
 - Continue Phase 1 operation of the RCS
 - Initiate erection of the retrieval bridges over the silos
 - Continue construction of the Silo 3 and Silos 1 and 2 Remediation facilities

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

May 2003

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for April to the OEPA on May 16.
 - Submitted the NPDES Noncompliance Report for April 2003 to the OEPA on May 16.
- Work Initiated/Continued/Completed

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- Continued treatment plant ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits
- DOE transmitted to the EPAs on May 13 the Fourth Quarter 2002 Re-Injection Operating Report and Notification of No Need for a First Quarter 2003 Re-Injection Operating Report
- Maintained compliance with the 30 ppb monthly average uranium limit for discharges to the Great Miami River (The monthly average uranium concentration for May was 20.9 ppb)
- Continued implementing measures to mitigate the effects of high TDS wastewater on the AWWT Phase II treatment system
- Increased groundwater extraction rate to the desired rate in most of the extraction wells
- Resumed re-injection at rates up to 1200 gallons per minute during portions of the month
- Continued direct push sampling in the off-property portion of the South Plume
- All the extraction wells in the southern uranium plume were shutdown on Friday May 9 to support the tie-in of the new South Field Phase II extraction wells. The tie-ins were completed and pumping resumed late in the day on Monday May 19. Per EPA approval (letter dated May 14, 2003) the uranium concentrations in the site effluent during this 11-day maintenance shutdown will not be considered in the monthly average in demonstrating compliance with the 30 ppb uranium limit.

June 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
 - Continue to operate groundwater extraction system at flow rates necessary to maintain regulatory discharge limits
 - Continued treatment plant ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits
 - Begin tie-in of replacement Extraction Well 21A

WASTE MANAGEMENT

May 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Incinerator Liquids
 - Received notification of Batch 13 Toxic Substances Control Act Incinerator (TSCAI) application packet approval by TSCAI. TSCAI submitted the application packet to the State of Tennessee for review/approval on 5/23. Initiated the Batch 13 waste transfer work package, shipping paperwork and

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TSCAI shipping coordination in anticipation of the three June/July Batch 13 shipments to TSCAI. Provided Batch 14 information to TSCAI as FY 2004 TSCAI Burn Plan input.

- Sample Disposition
 - Processed a total of 68 containers for the month. For the base line inventory of 494 containers, 345 have been worked.
- Hazardous Waste Project
 - Completed two labpack shipments totaling 19 containers to Heritage Environmental Services on 5/7.
- Organic Treatment Project
 - Provisionally approved the Envirocare System Operability Test (SOT), providing a basis for the early award of the Vacuum Thermal Desorption (VTD) contract option, on 5/14. Exercised the VTD contract option by 5/14 award to Envirocare. Completed processing and packaging of 233 Organic Treatment Project (OTP) containers for shipment. Continued development of inventory release documents for remaining OTP inventory. Initiated June shipments of the Release #1 inventory to Envirocare with confirmation of a 6/5 arrival of Shipment 1 at Envirocare. Completed the 5/27 shipment of 73 containers, a segment of the 136 containers, of Fire Training Facility (FTF) Soils to Envirocare.
- Inorganic Treatment Project
 - Soils, Sludges, Debris (SSD)
 - Resumed processing and packaging inventory associated with those inorganic, low concentration organic waste streams in the OTP that are destined for Waste Control Specialists (WCS). Completed packaging of 82 of 171 containers to date. Shipped 7 containers of Neutralization, Precipitation, Deactivation and Stabilization Project (NPDS) treated waste that is LDR-compliant to Envirocare on 4/21.
- Waste Minimization/Pollution Prevention
 - On 5/15, shipped 13,446 pounds of electrical waste (fluorescent light tubes, non-PCB and PCB ballasts and batteries) to Onyx Industrial Systems, Incorporated.

June 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - AWWT Liquids – Site Treatment Plan – 6-30-03
- Work To Be Initiated/Continued/Completed
 - Incinerator Liquids
 - Await Batch 13 TSCAI application packet approval by the State of Tennessee. Complete the Batch 13 waste transfer work package, shipping paperwork and TSCAI shipping coordination in anticipation of the three June/July Batch 13 shipments to TSCAI. Continue planning for Batch 14 inventory and bulking operations activities.

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- AWWT Liquids
 - Complete activities for the 4 sulfuric acid containers to ship off-site for treatment/disposition in June.

- Hazardous Waste Project
 - Scheduling the shipment of 110 excess clean and contaminated compressed gas cylinders to the Integrated Environmental Services, Incorporated facility for June.

- Waste Minimization/Pollution Prevention
 - Complete recycle/disposition activities for the 5 sealands of used tires at the Building 82 staging area. Complete lead acid batteries recycling shipment to American Compressed Steel.

- Organic Treatment Project
 - Complete June shipments of the Release #1 inventory to Envirocare. Develop Release #2 inventory for July shipments. Complete shipment of the 63 containers, the remaining segment of the 136 containers, of FDF Soils to Envirocare.

- Inorganic Treatment Project
 - MACROENCAPSULATION - Treatment of Envirocare lead waste has been completed. Activities to complete disposal are in process.