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# Department of Energy

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Fernald Area Office

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NOV 15 1998

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-0163-99

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> 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  
THROUGH OCTOBER 31, 1998**

This letter transmits the amended Consent Agreement Monthly Report for the period of October 1 through October 31, 1998. 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 U.S. Environmental Protection Agency (U.S. EPA) 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

Enclosure: As Stated

1

NOV-16 1998

Mr. James A. Saric  
Mr. Tom Schneider

-2-

1833

cc w/enclosure:

N. Hallein, EM-42, CLOV  
G. Jablonowski, USEPA-V, SRF-5J  
R. Beaumier, TPSS/DERR, OEPA-Columbus  
F. Barker, Tetra Tech  
D. Carr, FDF/52-2  
T. Hagen, FDF/65-2  
~~AR Coordinator, FDF/78~~

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cc w/o enclosure:

A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
J. Harmon, FDF/90  
R. Heck, FDF/2  
S. Hinnefeld, FDF/90  
B. Irvine, FDF/65-2  
T. Walsh, FDF/65-2  
EDC, FDF/52-7

2

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,

1833

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from October 1, 1998 through October 31, 1998. 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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STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,**

**OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT**

October 1998

- Enforceable Milestones
  - None
  
- Major Work Initiated/Continued/Completed
  - Continued review of draft RA documents package by Agency
  - Received final approval from USEPA for RD Package
  - Continue review of IT authorization to operate documents
  - Continue construction of treatment facility by IT Corp.
  - Continue to develop the Solid Waste Management Plan
  - Initiated rail operations training
  - Continued Rail Tender negotiations

November 1998 (Anticipated Activities)

- Enforceable Milestones
  - None
  
- Major Work Initiated/Continued/Completed
  - Review of draft RA deliverables by Agencies continue
  - Continue construction of treatment facility by IT Corp.
  - Continue review of IT authorization to operate documents
  - Complete rail operations training
  - Continue Rail Tender negotiations

**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**

October 1998

- Enforceable Milestones
  - None
  
- Major Work Initiated/Continued/Completed
  - **On-Site Disposal Facility (OSDF)**
    - Completed secondary liner system for Cell 2
    - Installed Leak Detection System for Cell 2
    - Completed primary liner system for Cell 2
    - Continued placing Impacted Material in Cell 1

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998.

- Leachate Conveyance System
- Install Leachate Collection System for Cell 2

1833

November 1998 ( Anticipated Activities)

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed OSDF
  - Initiate 1-foot protective layer for Cell 2

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

October 1998

- Enforceable Milestones
  - Submittal of Project Closeout Report for Sewage Treatment Plant Complex to the Agencies was made October 28, 1998; in advance of the actual milestone date of November 4, 1998
- Major Work Initiated/Continued/Completed
  - Safe Shutdown
    - Plant 2
      - Continued holdup material removal
      - Completed line draining in extraction area
    - Plant 6
      - Continued holdup removal in selected areas
      - Completed electrical isolation of T-Hopper green salt processing equipment
    - Non-Nuclear Materials
      - Completed various utility disconnects
      - Completed equipment removal at Tank Farm Complex
      - Completed isolation of sewage line and electrical utilities at Building 81
  - Recycling Supplemental Environmental Projects
    - Completed Site Preparation of SWUs
    - Completed Sewage Treatment Plant Excavation Package October 7, 1998
    - Arranged to ship remaining track rail (225 tons), spike plates (130 tons) and rail spikes (6 tons) to DOE in Ashtabula, Ohio for decontamination and unrestricted release
    - Began to plan for shipment of 1,350 tons of copper windings to DOE in Oak Ridge, Tennessee, as a site-to-site property transfer for recycling
  - D&D
    - Thorium/Plant 9 Complex
      - Completed final cleaning and application of "lockdown" coating to interior and exterior transite panels to reduce asbestos inhalation hazard
      - Completed D&D of Buildings 9B, 9C, 9D and 81

5

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,**

- Maintenance/Tank Farm D&D and Water Storage Tank Project
  - Issued authorization to contractor to mobilize for water storage tank construction
- Miscellaneous Small Structures
  - Began planning for D&D of next seven structures
- Boiler Plant/Water Plant
  - Continued project completion activities

**November 1998 (Anticipated Activities)**

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Safe Shutdown
    - Plant 2
      - Complete holdup removal in selected areas
      - Complete packaging /movement of drums to Plant 1 Pad or other storage
    - Plant 6
      - Continue holdup removal in selected areas
  - Non-Nuclear Facilities
    - Begin line draining and holdup material removal at Tank Farm
  - Recycling Supplemental Environmental Projects
    - Initiate excavation of Active Fly Ash Piles
    - Initiate construction of Site Preparation Facilities
  - D & D
    - Maintenance/Tank Farm & Water Storage Tank Project
      - Begin new water storage tank construction
    - Plant 5 Project
      - Conduct November pre-bid meeting and site tour with pre-qualified subcontractors
    - Thorium / Plant 9 Complex
      - Continue interior and exterior D&D activities
      - Complete sludge and water removal from waste water tanks
    - Boiler Plant
      - Complete project and demobilize subcontractor

**OPERABLE UNIT 4 - SILOS PROJECT**

**October 1998**

- Enforceable Milestones
  - None

6

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AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,**

- Major Work Initiated/Continued/Completed **1833**
  - Silos 1 & 2 Project
    - Continued review of proposals for AWR Project
    - Responded to OEPA comments on Silo Infrastructure Design Package and PSP
    - Conducted Public Status Briefing on Silos project activities on October 5, 1998
    - Briefed USEPA and OEPA on scope and content of Silo 1 and 2 FS revision
    - Approved Proof of Principle Testing work plans from EnVitCo (joule-heated vitrification testing contractor)
  - Silos 3 Project
    - Conducted oral presentations from potential contractors; received Final Technical and Price Proposals and initiated evaluation
    - Initiated dismantlement of Silo 3 Small Scale Waste Retrieval System

**November 1998 (Anticipated Activities)**

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Continue Review of proposals for AWR project
  - Submit draft of initial sections of Silo 1 and 2 FS revision to DOE for review
  - Continue review of Final Technical and price proposals for Silo 3 project
  - Brief Silos Project Critical Analysis Team on FDF review of Final Technical and Price Proposals for Silo 3 remediation
  - Complete closeout of Silo 3 SSWR project

**OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT**

**October 1998**

- Enforceable Milestones
  - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on October 14, 1998 for the month of September
  - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Major Work Initiated/Continued/Completed
  - Completed Sludge Removal System design on October 26, 1998
  - Began designing the Ozone Injection System for the Stormwater Retention Basin
  - Established a Project Task order with Lockwood Greene Technologies for design on October 19, 1998. Lockwood Green initiated activities on October 20, 1998.
  - Completed bi-annual revision of the Integrated Environmental Monitoring Plan (IEMP) and submitted revised draft to the Agencies on October 29, 1998

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STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,**

November 1998 (Anticipated Activities)

- Enforceable Milestones
  - Submit monthly NPDES Discharge monitoring Report to OEPA
- Major Work Initiated/Continued/Completed
  - Complete installation of the Ozone Injection System at the Biosurge Lagoon by Wise Construction
  - Continue operation of AWWT
  - Continue operation of Injection Demonstration, South Plume Optimization and South Field Extraction modules
  - Initiate changes to Stormwater Retention Basin System as agreed upon in meeting with OEPA

**WASTE MANAGEMENT**

October 1998

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Low Level Waste
    - Continue to investigate offsite treatment options and onsite treatment technologies
    - Organic Treatment Project
      - Continue the revision of the Statement of Work and schedule for the Organic Treatment Project (OTP) will begin. The revision will be made to include LLW and NPDS inventory requiring treatment. Project inventory will increase based on addition of an unknown amount of LLW
  - Mixed Waste Shipping
    - Continue to identify sampling and container requirements for the 150 drums of waste materials determined to be candidate for shipment and disposal (below LDR treatment standards)
  - Mixed Waste Treatment Projects
    - Liquid Mixed Waste
      - Obtained approval from TSCA Incinerator and the State of Tennessee for the shipment of Batch 7 to TSCA Incinerator for treatment. Batch 8 shipment to TSCA incinerator was approved October 21, 1998
      - Continue to evaluate newly generated waste streams for bulking into Batch 9 and Batch 10
    - Chemical Treatment Projects
      - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
        - Move 61 drums and boxes from Plant 6 in support of demobilization
        - Repackaged and transfer cement chips generated during drum crushing activities

8

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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STUDY/CONSENT DECREE MONTHLY REPORT OCTOBER 1 THROUGH 31, 1998,

1833

- Hazardous Waste/Recycling Project
  - Assisting with disposition of the remaining Building 12 chemical inventory
- Thorium Legacy Waste Stabilization Project
  - Cleared Building 64 pad of trailers and boxes belonging to other projects
  - Work on startup activities for Low Level Waste operations
  - Evaluated impact of Waste management self-assessment to commencement of SSR
  - Repackaging operations of LLW for shipments are on hold pending closeout of corrective actions from Triennial Audit and DOE/HQ moratorium on shipping
- Waste Minimization/Pollution Prevention
  - Complete processing of 95 tons of shredded copper at Alaron Corporation
  - Begin preparation of scrap copper motor winding containers for shipment to East Tennessee Technology Park, Oak Ridge, TN
  - Continued the evaluation for the recycle of rail, spice plates and spikes
  - Investigate the potential re-use of 6000 B-25 containers currently stored at Envirocare

November 1998 (Anticipated Activities)

- Begin recycling effort on 90 tons of scrap steel generated from size reduction of two non-contaminated propane tanks
- Begin shipments of copper motor winding containers to the East Tennessee Technology Park, Oak Ridge, TN
- Complete the evaluation on proposals for recycling rail, plates, and rail spikes

9