



Department of Energy

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FEB 18 1998

DOE-0441-98

**Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

**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 DURING JANUARY 1, 1998, THROUGH
JANUARY 31, 1998**

This letter transmits the amended Consent Agreement Monthly Report during January 1, 1998, through January 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

cc w/enc:

N. Hallein, EM-42, CLOV
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R. Beaumier, TPSS/DERR, OEPA-Columbus
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STUDY/CONSENT DECREE MONTHLY REPORT JANUARY 1 THROUGH JANUARY 31, 1998**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from January 1 through January 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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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

January 1998

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Completed
 - Continued on-site rail infrastructure upgrade
 - Completed erection of rail maintenance building
 - Initiated Shandon Yard upgrade construction
 - Received U.S. EPA approval to amend Operable Unit 1 Remedial Action Work Plan to include IT Corporation's Submittal Register listing new enforceable milestone dates for submittal of remedial design and remedial action deliverables
 - Submitted draft of IT Corporation's remedial design deliverables to DOE-FEMP
 - Continued to review IT Corporation's pre-mobilization contract deliverables
 - Awarded contract for transport, storage and maintenance of two 60-ton locomotives acquired as excess from Department of Defense in Umatilla, Oregon
 - Continued development of Waste Management Plan

February 1998 (Anticipated)

- Enforceable Milestones
 - None

- Major Work to be Initiated/Completed
 - Complete on-site rail infrastructure construction
 - Complete Shandon Yard Upgrade construction
 - Initiate Locomotive Maintenance Facility utilities installation
 - Continue review of IT Corporation's pre-mobilization contract deliverables
 - IT Corporation to revise remedial design deliverables
 - Award contract for construction of rail and access road lighting
 - Award contract for railcar procurement
 - Complete draft of Waste Management Plan
 - Incorporate DOE comments into Transportation and Disposal Plan

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OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY

Additional OU2 soils-related activities reported under OU5/Soils Characterization and Excavation Project.

January 1998

- **Enforceable Milestones Completed**
 - Placed seasonal cover on Cell 1 of OSDF January 2, 1998, meeting actual milestone date of January 15, 1998
- **Major Work Initiated/Completed**
 - **On-Site Disposal Facility (OSDF)**
 - Began planning for construction of OSDF Material Transfer Area
 - Reconfigured East Soil Stockpile to allow certification of area under pile
 - Reviewed contractor proposals for OSDF Phase II/Southern Waste Units excavation contract (project to be performed in conjunction with Soil Characterization and Excavation Project)
 - Submitted Revised Waste Acceptance Criteria Attainment Plan for OSDF to Agencies January 30, 1998
 - **Leachate Conveyance System (LCS)**
 - Continued working on construction punch list items
 - Operated system and performed routine maintenance as required

February 1998 (Anticipated)

- **Enforceable Milestones**
 - None
- **Major Work to be Initiated/Completed**
 - **OSDF**
 - Commence construction of OSDF Material Transfer Area and Decontamination Facility
 - Submit Consent Package for OSDF Phase II/Southern Waste Units excavation contract to DOE-FEMP
 - Perform inspection and necessary maintenance of seasonal cover
 - **LCS**
 - Complete outstanding construction punch list items, contingent upon weather conditions
 - Operate system and perform routine maintenance

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OPERABLE UNIT 3 - FACILITIES CLOSURE & DEMOLITION PROJECTS

January 1998

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Completed
 - **Safe Shutdown**
 - Plant 8
 - Completed holdup material removal from various areas of Plant 8
 - Performed 24 electrical isolations
 - Excavated for domestic water line, cooling water and sewage lines
 - Plant 6
 - Isolated storage tank containing sodium hydroxide/sodium sulfide mixture; activity involved drumming, coding and storage of material
 - **D&D**
 - Boiler Plant/Water Plant
 - Continued demolition of railroad tracks
 - Continued window and transite removal at Boiler Plant
 - Sized, segregated, and containerized debris from demolition activities
 - Thorium/Plant 9 Complex
 - Began friable asbestos abatement, equipment removal and interior demolition activities in Plant 9
 - Continued with preparation/submittal of subcontractor Safe Work Plans
 - Continued demolition of railroad tracks
 - Maintenance/Tank Farm Complex
 - Continued Implementation Plan development
 - Sewage Treatment Plant Complex
 - Continued Implementation Plan development

February 1998 (Anticipated)

- Enforceable Milestones
 - None

- Major Work to be Initiated/Completed

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- **Safe Shutdown**
 - Complete biohazard cleanup and removal in Plant 2/3, as well as holdup material removal in selected areas
 - Initiate biohazard cleanup in Plant 6; continue utility disconnects
 - Continue holdup material removal in selected areas of Plant 8
 - Complete asbestos abatement and utility disconnects in Plant 8
 - Complete utility disconnects/begin equipment removal from Tank Farm Complex
- **D&D**
 - Boiler Plant/Water Plant
 - Complete transite removal at Boiler Plant
 - Begin demolition of Boiler Plant, Coal Handling Area and Process Water Break Tank
 - Continue ongoing sizing, segregation, and containerization of debris
 - Thorium/Plant 9 Complex
 - Perform structural D&D of Magnesium Storage Building
 - Begin building preparation activities in and around Buildings 69 and 78
 - Continue preparation of subcontractor work plans
 - Continue friable asbestos abatement, equipment removal and interior demolition activities in Plant 9; commence similar activities in Building 69
 - Maintenance/Tank Farm Complex
 - Complete Implementation Plan development
 - Sewage Treatment Plant Complex
 - Continue Implementation Plan development

OPERABLE UNIT 4 - SILOS PROJECTS

January 1998

- **Enforceable Milestones Completed**
 - None
- **Major Work Initiated/Completed**
 - **Silos 1 & 2 Project**
 - Briefed stakeholders on Request for Proposal (RFP) for Multi-Tech Proof-of-Principle Testing and on Initial Screening of Technologies, at January 13, 1998, monthly briefing; extended comment period to February 3, 1998, at request of stakeholders
 - Received responses to Commerce Business Daily announcement for expressions of interest in Accelerated Waste Retrieval (AWR) Project
 - Made Draft National Environmental Policy Act (NEPA) Supplemental Analysis for AWR Project available to stakeholders locally and in Nevada

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- **Silo 3 Project**
 - Prepared Responsiveness Summary addressing public comments on Draft Final Silo 3 Explanation of Significant Differences (ESD); submitted Final ESD to DOE for transmittal to Agencies
 - Responded to comments from Agencies on Draft RFP; discussed vendor comments with stakeholders at January 13, 1998, monthly progress briefing
 - Reached decision to modify Draft RFP to allow for off-site treatment as one of the treatment alternatives and initiated evaluation of technical, regulatory and schedule impacts of that decision
 - Continued System Operability/Mock-Up Testing of Small Scale Waste Retrieval at Silo 4
- **Silos Support Projects**
 - Completed evaluation of Silo 4 core sampling test results; based on these results and other already existing data, further integrity testing of silos does not appear to be warranted

February 1998 (Anticipated)

- **Enforceable Milestones**
 - None
- **Major Work to be Initiated/Completed**
 - **Silos 1 & 2 Project**
 - Address stakeholder comments on Draft Proof-of-Principle RFP; issue RFP for bid
 - Begin preparation of initial sections of Feasibility Study revision
 - Conduct initial reviews of Draft RFP for AWR Project
 - Receive DOE-OH approval of NEPA Supplemental Analysis for AWR Project
 - **Silo 3 Project**
 - Receive U.S. EPA approval of Draft Final ESD
 - Initiate revision of Draft RFP to incorporate off-site treatment
 - Continue Systems Operability/Mock-Up Testing efforts on Small Scale Waste Retrieval System at Silo 4; begin installation of equipment at Silo 3 and initiate pre-start reviews

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OPERABLE UNIT 5 - SOILS AND WATER PROJECT

January 1998

- Enforceable Milestones Completed
 - **Aquifer Restoration/Wastewater Project (ARWWP)**
 - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report for November 1997 to OEPA on January 14, 1998
 - Met 20 parts per billion monthly average uranium discharge to Great Miami River as required by the OU5 Record of Decision
 - **Soil Characterization and Excavation Project (SCEP)**
 - None

- Major Work Initiated/Completed
 - **ARWWP**
 - Submitted analytical data associated with first Integrated Environmental Monitoring Plan Quarterly Status Report to DOE-FEMP on January 9, 1998
 - Submitted Draft Start-Up Monitoring Plan for South Field Extraction System and South Plume Optimization project modules to Agencies on January 15, 1998
 - Made request to Agencies on January 15, 1998, to modify selected schedule dates contained in June 1997 Operable Unit 5 Remedial Action Work Plan; request is not for schedule extension, but for change in start-up sequence of following projects:
 - South Field Extraction System Phase I
 - South Plume Optimization System
 - Re-Injection Demonstration Project
 - Continued various construction and/or readiness activities associated with:
 - Advanced Waste Water Treatment (AWWT) Resin Regeneration System; note that the SSR was completed January 26, 1998.
 - AWWT Facility Expansion
 - New Sewage Treatment Plant (STP)
 - **SCEP**
 - Initiated field implementation of Paddys Run Embankment Phase II erosion stabilization activities
 - Continued Area 2 Phase I (*Southern Waste Units*) Site Prep package field implementation activities
 - Performed Final Remediation Levels (FRL) attainment precertification field activities for Area 8 Phase I (*On-Property OU5 Soil in Area West of Paddy's Run*) to accommodate Natural Resource Restoration activities
 - Continued procurement process for OSDF Phase II/Southern Waste Units excavation contract, to be performed in conjunction with OSDF Project

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- Submitted Draft Preliminary Wetland Mitigation Assessment to Agencies, outlining revised wetland mitigation strategy
- Continued discussions with Agencies on Draft Sitewide Excavation Plan (SEP) issues including perched water control strategy, off-property area certification strategy, waste tracking system, and stockpile management
- Continued development of Project Specific Plans (PSPs) and Integrated Remedial Design Package (IRDP) for Area 3 (*Northern Portion of the Former Production Area*)

February 1998 (Anticipated)

- **Enforceable Milestones**
 - **ARWWP**
 - Submit monthly NPDES Discharge Monitoring Report to OEPA
 - Meet 20 ppb average monthly uranium discharge to Great Miami River
 - **SCEP**
 - Submit Area 2 Phase I (Southern Waste Units) Final Design/Certified for Construction Excavation Package design drawings by 2/16/98; this milestone has already been met via transmittal on December 17, 1997
- **Major Work to be Initiated/Completed**
 - **ARWWP**
 - Complete construction, perform Integrated Construction Acceptance Testing and System Operability Testing on following projects:
 - AWWT Facility Expansion
 - AWWT Resin Regeneration System
 - New STP
 - **SCEP**
 - Complete demobilization activities associated with Paddys Run Embankment Phase II erosion stabilization
 - Continue field implementation of Area 2 Phase I Site Prep package
 - Submit Revised Site Preparation construction drawings and technical specifications, incorporating Design Change Notices
 - Submit Consent Package for OSDF Phase II/Southern Waste Units excavation contract to DOE-FEMP (in conjunction with OU2 OSDF Project)
 - Submit Draft Work Plan for Aesthetic Barrier Project
 - Continue development of PSPs and IRDP for Area 3
 - Submit response to comments to Agencies for:
 - Area 1 Phase I Certification Report
 - Prefinal Area 2 Phase I IRDP
 - Draft Sitewide Excavation Plan

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- Await OEPÁ comments on several SCEP submittals:
 - Waste Acceptance Criteria Attainment Completion Reports, Area 1 Phase I, Eastern Portion and Western Portion, both submitted June 1997

WASTE MANAGEMENT

January 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - All low level waste shipping remains suspended due to DOE direction following an incident involving transportation of white metal boxes to Nevada Test Site (NTS); DOE Type B Investigation Team performed their investigation of incidents during January and issued draft report to DOE-OH and DOE-HQ
 - Mixed Waste Treatment Projects
 - Liquid Mixed Waste --- Received sampling results for Batch #8 (newly generated low level waste) and initiated characterization; continued to evaluate newly generated waste streams for bulking into Batches #9 and #10
 - Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Treated total of 660 drums in project as of January 31, 1997; identified 83 more drums for final treatment campaign under this contract
 - RCI Solvent Extraction Project --- Subcontractor prepared and submitted equipment decontamination plan
 - Hazardous Waste/Recycling Project --- Made preparations for next Lab Pack shipment
 - Thorium Legacy Waste Stabilization Project --- Continued characterization of thorium legacy inventory; received conditional approval of Final Technology Work Plan from Ohio EPA

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February 1998 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Low Level Waste
 - Release Type B Investigation Report on Leaking White Metal Boxes to public during first week of month
 - Mixed Waste Treatment Projects
 - Liquid Mixed Waste Project --- Ship Batch #7 (19,000 + gallons mixed waste) to Toxic Substances Control Act Incinerator
 - Chemical Treatment Projects
 - NPDS Project --- Treat additional 83 drums of waste; evaluate contents of storage tank in Plant 6 for addition to project (tank contains approximately 2,000 gallons sodium hydroxide/sodium sulfide mixture)
 - Organic Treatment Project --- Issue Commerce Business Daily announcement requesting letters of interest from qualified vendors
 - Hazardous Waste/Recycling Project --- Ship next Lab Pack
 - Thorium Legacy Waste Stabilization Project --- Stage low level waste repackaging efforts in Building 64, to support eventual shipment of waste to NTS