



Department of Energy

6-104.22



Ohio Field Office
Fernald Area Office
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

1776

OCT 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-0033-99

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 SEPTEMBER 1,
1998, THROUGH SEPTEMBER 30, 1998, AND QUARTERLY REPORT FOR THE PERIOD OF
JULY 1, 1998, THROUGH SEPTEMBER 30, 1998, INCLUDING REMOVAL ACTION
STATUS REPORT**

This letter transmits the amended Consent Agreement Monthly Report for the period of June 1, 1998, through June 30, 1998, and the Quarterly Report for the period of April 1, 1998, through June 30, 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

Enclosures

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Mr. James A. Saric
Mr. Tom Schneider

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cc w/enclosures:

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

cc w/o enclosures:

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

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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from July 1, 1998 through September 30, 1998. The monthly and quarterly reports have 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.

The Department of Energy - Fernald, has given direction to utilize the submittal of the Quarterly Integrated Environmental Monitoring Plan (IEMP) reports to satisfy the effluent radionuclide reporting requirements of the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Quarterly Report.

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OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

July 1998

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Submitted Final Transportation and Disposal Plan to Agencies, July 30, 1998
 - Received verbal USEPA approval of Remedial Design package
 - Approved limited mobilization authorization for IT Corporation to begin treatment facility construction
 - Submitted Waste Pit Waste Acceptance Profile to Envirocare of Utah, Inc., and requested DOE place delivery order for over 192,000 cubic yards of pit wastes against DOE's Envirocare disposal contract
 - Completed review of IT's Draft Remedial Action deliverables
 - Completed review of IT's pre-mobilization deliverables
 - Continued construction of rail and access road lighting
 - Continued reviewing IT's pre-operations deliverables
 - Continued developing Draft Waste Management Plan

August 1998

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Submitted Final Remedial Design Package to Agencies August 31, 1998
 - IT Corporation initiated treatment facility construction
 - Initiated Safety Enhancements to Locomotive Maintenance Building
 - Received first shipment of DOE-procured gondola railcars
 - Revised Draft Remedial Action Package and resubmitted to DOE for review
 - Continued construction of rail and access road lighting
 - Continued reviewing/finalizing IT's pre-operations deliverables
 - Continued development of Draft Solid Waste Management Plan
 - Continued negotiations and processing of rail transportation tender with Union Pacific Rail Road and CSXT

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September 1998

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- Enforceable Milestones Completed
 - FDF/DOE submitted draft RA documents package to Agency

- Major Work Initiated/Continued/Completed
 - Received 50 DOE procured gondola railcars
 - Completed installation of rail and access road lighting
 - Review of draft RA documents package was initiated by Agency
 - Continued construction of treatment facility by IT Corporation
 - Continued review of IT authorization to operate documents
 - Continued Solid Waste Management Plan development
 - Continue Safety Enhancements to Locomotive Maintenance Building

October 1998 (Anticipated Activities)

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Review of draft RA documents package by Agency
 - Continue review of IT authorization to operate documents
 - Continue to develop the Solid Waste Management plan
 - Initiate rail operations training

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY

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

July 1998

- Enforceable Milestones Completed
 - Began OSDF Phase II construction on June 26, 1998, in advance of July 15, 1998 milestone date

- Major Work Initiated/Continued/Completed
 - **On-Site Disposal Facility (OSDF)**
 - Began Cell 3 excavation
 - Began construction of Cell 2 compacted clay liner
 - Resumed placement of waste into Cell 1
 - Began preparation of OSDF Clay Borrow Area (located east of Fernald Site South Access Road)

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NOTE: A Notice of Violation (NOV) was issued by OEPA on July 27, 1998, regarding
Sediment Basin Activity

- Leachate Conveyance System (LCS)
- Operated system and performed routine maintenance as required

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August 1998

- **Enforceable Milestones Completed**
 - Submitted list of proposed OSDF enforceable milestone for next fiscal year to Agencies August 13, 1998
- **Major Work Initiated/Continued/Completed**
 - **On-Site Disposal Facility (OSDF)**
 - Completed excavation of Cell 3
 - Completed preparation of OSDF Clay Borrow Area (located east of Fernald Site South Access Road)
 - Completed installation of piping connecting leachate collection and leak detection manholes to pipes from Cell 2
 - Continued construction of Cell 2 compacted clay liner
 - Continued placement of waste into Cell 1
 - Began stockpiling Cell 2 liner system materials
 - FDF issued letter to DOE, including a draft letter to OEPA, with regard to July 27, 1998 NPDES Permit Notice of Violation (NOV), on August 18, 1998. The letter informed OEPA of corrective measures taken and asked for confirmation of OEPA's verbal authorization to resume excavation activities in the Area 1 Phase 2 Borrow Area
 - **Leachate Conveyance System**
 - Finalized as-built system drawings for OSDF Phase I
 - Performed project closeout activities

September 1998

- **Enforceable Milestones Completed**
 - None
- **Major Work Initiated/Continued/Completed**
 - **On-Site Disposal Facility (OSDF)**
 - Completed 3-foot clay liner for Cell 2
 - Initiated Secondary liner system for Cell 2
 - Continued placing Impacted material in Cell 1
 - **Leachate Conveyance System**
 - Installed liner penetration boxes and associated Leachate Conveyance and Leak Detection System piping

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October 1998 (Anticipated Activities)

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- **Enforceable Milestones**
 - None

- **Major Work Initiated/Continued/Completed**
 - **On-Site Disposal Facility (OSDF)**
 - Complete secondary liner system for Cell 2
 - Install Leak Detection (gravel drain) System for Cell 2
 - Install primary liner system for Cell 2
 - **Leachate Conveyance System**
 - Install Leachate Collection (gravel drain) System for Cell 2

OPERABLE UNIT 3

July 1998

- **Enforceable Milestones Completed**
 - Issued Notice to Proceed, Maintenance Tank Farm, July 13, 1998

- **Major Work Initiated/Continued/Completed**
 - **Safe Shutdown**
 - **Non-Nuclear Facilities**
 - Performed various utility disconnects
 - Isolated fire protection line to Old Cooling Tower
 - Continued removal of equipment from Tank Farm Complex
 - **Plant 2/3**
 - Continued holdup material removal
 - Continued asbestos and biohazard removal
 - **Plant 6**
 - Continued utility disconnects and holdup material removal
 - Continued biohazard cleanup
 - Completed processing of 1,000 gallons of sodium hydroxide/sodium sulfide mixture
 - **D&D**
 - **Boiler Plant/Water Plant Complex**
 - Completed demolition of remaining Boiler Plant structure July 23, 1998
 - Demolished/size-reduced old Cooling Tower structure
 - **Thorium/Plant 9 Complex**
 - Completed D&D of Building 78
 - Completed removal/containerization of non-salvageable equipment in Building 9C
 - Completed floor scabbling in various areas of Plant 9
 - Continued D&D activities in Building 69

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- Sewage Treatment Plant (STP) Complex
 - Completed demolition of Skeet Range Building (Building 28F)
 - Demolished/size-reduced Chlorination Building (Building 25A)
 - Completed demolition of STP Incinerator Stack
 - Began removal of digester lid
- Miscellaneous Small Structures
 - Initiated D&D of Building 38
- Maintenance/Tank Farm Complex
 - Awarded demolition contract to NSC Energy Services, Inc., July 1, 1998
 - Began evaluation of contractor submittals
- Recycling Supplemental Environmental Projects
 - Decontaminated/free-released total of 103 tons of rail as of July 31, 1998, representing approximately 28% of proposed project total
 - Visited copper recycling vendor's site to audit their recycling/waste management program in preparation for the shipment of shredded copper for recycling

August 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - **Safe Shutdown**
 - Non-Nuclear Facilities
 - Performed various utility disconnects
 - Continued removal of equipment from Tank Farm Complex
 - Plant 2
 - Continued holdup material removal
 - Continued asbestos and biohazard removal
 - Plant 6
 - Continued holdup material removal
 - Continued asbestos removal
 - **D&D**
 - Boiler Plant/Water Plant Complex
 - Continued cutting remainder of structural steel, coal burner and boilers
 - Packaged steel for transfer to On-Site Disposal Facility
 - Thorium/Plant 9 Complex
 - Dismantled Building 9F and size-reduced material
 - Continued interior transite removal and interior/exterior dismantlement activities
 - Continued floor scabbling in various areas of Plant 9
 - Sewage Treatment Plant (STP) Complex
 - Completed D&D activities
 - Completed contractor demobilization
 - Began preparation of Project Closeout Report

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- Miscellaneous Small Structures
 - Completed D&D of Building 38
- Maintenance/Tank Farm and Water Storage Tank Project
 - Continued evaluation of contractor submittals
- Recycling Supplemental Environmental Projects
 - Decontaminated/free-released project total of 110 tons of rail as of August 31, 1998
 - Shipped 96 tons of shredded copper to recycling vendor for survey and free-release
 - Issued request for bids for recycling of 300 tons of rail, 130 tons of tie-plates and six tons of spikes

September 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - **Safe Shutdown**
 - Completed Plant 6, Cooling Bed Pit, Cooling Water Tank
 - Completed logistical support to Technology Demonstration Group in Plant 8
 - Completed cleaning of biohazardous waste in Plant 6 - Rolling Mill area
 - Completed holdup removal from N. Bucket Elevator
 - Completed line draining in extraction area
 - Completed asbestos clean-up of Plant 6 East Pad
 - Facility Demolition/Supplemental Environmental Projects
 - Implementation documentation for HWMU #28 (Trane Incinerator) and HWMU #50 (UNH Tanks) Closure was forwarded to DOE-FN for review and issuance to Ohio EPA and USEPA
 - Issued the Task Order #384 Completion Report for the DOE/Regulatory Agencies
 - Technical Services
 - Reviewed five project submittals from Contractor for Power Redistribution Project
 - Approved three project submittals for Power Redistribution Project
 - Loaded Building 24B material in containers
 - Completed demo of Refrigeration Building
 - Completed RFP for 34.5 KV Switch and Metering Yard Project
 - Completed Traveler for Building 30/45 maintenance relocation

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- Plant 9
 - NSC completely dismantled and removed the wash down area
 - Shear jaws were successfully removed, decontaminated and sent off site for repair
 - Completed all scabbling operations
 - Relocated approximately 75% of drums from 9A to the Plant 1 Pad
 - Completed removal of all sludge from tanks and placed in white boxes
 - Completed moving to areas 5, 6 and 7 and commenced with wash down activities
 - Completed final cleaning in areas 1, 2 and 3
 - Completed lock down activities in areas 1, 2 and 3
- D&D
 - Maintenance/Tank Farm D&D and Water Storage Tank Project
 - Continued to review contractor submittals
 - Sewage Treatment Plant D&D Project
 - Completed turnover of project site to Soils and Water Division
 - Continued project Closeout Report preparation
 - Plant 5 D&D Project
 - Completed final project estimate
 - Planning activities combining Plant 5 with Plant 6 and the East Warehouse D&D projects were discontinued

October 1998 (Anticipated Activities)

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - **Safe Shutdown**
 - Plant 2/3
 - Complete Nitric Acid Piping
 - Complete Plant 2 Sumps
 - Plant 6
 - Continue Nox Destructor System
 - Continue Rolling mill Area
 - Continue Dust Collector and Elect precipitator
 - Complete Salt-Oil heat Treatment Bldg.
 - Begin Degreasing and Pickling Equipment, Chip Crushing/Pickling/Briquetting
 - Begin Oil Clarifiers & Hold Tank

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- Non-Nuclear Materials
 - Complete Tank Farm Implementation Plan
 - Continue T06-05, Rolling Mill Line Draining
 - Begin Ductwork in Plant 6
 - Begin Condensate System in Plant 6
 - Begin Nitric Acid & NaOH Piping & Tank
 - Facility Demolition/Supplemental Environmental Projects
 - Develop and issue the Task Order
 - Develop and obtain engineering approval for a DCN for the revisions to the MSS D&D Project
 - Issue the final version of the MSS Implementation Plan
 - Submit Project Completion Report for Plant 8 Muffle Furnace Area Scabbling Demonstration Project by October 25 to EPA's
 - Submit Project Completion Report for STP Complex D&D Project by October 28 to EPA's
 - Certify for construction the Plant 5 D&D Design Package by October 22
 - Building 12
 - Complete carpenter shop renovation activities in Service Building
 - Continue Building 30/45 renovation activities
 - Technical Services
 - Complete relocation and testing of Trash Compactor
 - Complete Habitat Project
 - Start work on "R" Track garage
 - Complete planting for Habitat Project
 - Start field work on the Main Power Redistribution Project
 - Start working on Plant 3 HWMU 28 & 50 and demo on Trane Incinerator and Piping
 - Plant 9
 - Continue vacuuming debris from area 4
 - Continue stockpiling drums filled with concrete debris south of 9A
 - Complete wash down inside and outside of 9A
 - Apply lock down on transite panels inside and outside of 9A
 - Continue grade verification in areas 2 and 4
 - Maintenance/Tank Farm D&D and Water Storage Tank Project
 - Contractor to start mobilization activities for construction of new water storage tank

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- Plant 6 Complex and East Warehouse Complex
 - Began construction estimate for Plant 6 Complex
 - Planning activities combining Plant 5 with Plant 6 and the East Warehouse D&D Projects were discontinued at DOE request. Plant 6 D&D and the East Warehouse Complex D&D project will be a separate D&D project with a separate RFP package
 - Continue planning and preparation of Plant 6 D&D and East Warehouse Complex D&D FRP package.
- D&D
 - Sewage Treatment Plant D&D Project
 - Complete project Closeout Report and submit to Agency
 - Plant 5 D&D Project
 - Procurement to perform final review of RFP Package for Plant 5 D&D
 - Prepare for pre-bid meeting and site tour scheduled for November
 - Plant 6 D&D and East Warehouse Complex D&D Project
 - Continue planning of Plant 6 D&D and East Warehouse Complex D&D RFP package
 - Complete construction estimate for Plant 6 Complex D&D Project

OPERABLE UNIT 4

July 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Silos 1 & 2 Project
 - Received Draft Work Plan and Quality Assurance/Quality Control Plan submittals from Proof-of-Principle Testing contractors
 - Awarded contract for Silos Infrastructure Trailer Upgrade to Kelchner Environmental
 - Silo 3 Project
 - Initiated review of technical proposals in response to Silo 3 Request for Proposal (RFP)
 - Continued retrieval of material from Silo 3 for use in treatability testing

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August 1998

- **Enforceable Milestones Completed**
 - Awarded four Silos 1 and 2 Proof-of-Principle Testing contracts June 3, 1998, in advance of actual milestone date of August 10, 1998

- **Major Work Initiated/Continued/Completed**
 - **Silos 1 & 2 Project**
 - Reviewed Draft Work Plans and Quality Assurance/Quality Control Plans from Proof-of-Principle Testing contractors; submitted comments to contractors for incorporation
 - Submitted Soil Sampling Project Specific Plan (PSP) and drawings/design package for Silos Infrastructure Project to Agencies for review and comment
 - Received proposals for disposition of waste and debris which will result from closure of Vitrification Pilot Plant
 - Initiated Silo Area K-65 bridge-widening work and preliminary infrastructure electrical installation by Site Support Contractor
 - **Silo 3 Project**
 - Evaluated technical proposals for Silo 3 treatment; identified competitive range of potential contractors
 - Continued retrieval of material from Silo 3 for use in treatability testing
 - Shipped Silo 3 samples to competitive range potential contractors

September 1998

- **Enforceable Milestones Completed**
 - None

- **Major Work Initiated/Continued/Completed**
 - **Silos 1 & 2 Project**
 - Began evaluation of proposals for Accelerated Waste Retrieval (AWR) project
 - Awarded contract for disposition of waste and debris from closure of the Vitrification Pilot Plant to Kindrick Trucking Company
 - Completed field work on closure of Vitrification Pilot Plant
 - Provided Authorization to Mobilize for construction on Trailer upgrade portion of the Silos infrastructure project
 - Awarded contract for Roads and Electrical Upgrade portion to Staver Group, Inc.
 - Continued development of alternatives for Silo 1 and 2 Feasibility Study Revision
 - Received comments from USEPA and Ohio EPA on the PSP for the Silos Infrastructure Project

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- Received approval of the Silos Infrastructure design package from USEPA and comments from OEPA
- Finalized Silos 1 and 2 Proof of Principle Testing work plan from Vortec (non-joule-heated vitrification); provided for information to DOE, USEPA, and OEPA
- Completed Wise Task order Silos Infrastructure work on the K-65 trench bridge widening
- **Silos 3 Project**
 - Retrieved additional material from Silo 3 for potential future use

October 1998 (Anticipated Activities)

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - **Silos 1 & 2 Project**
 - Continue review of proposals for AWR Project
 - Respond to OEPA comments on Silo Infrastructure Design Package and PSP
 - Conduct Public Status Briefing on Silos project activities on October 5, 1998
 - Brief USEPA and OEPA on scope and content of Silo 1 and 2 FS revision
 - Finalize remaining Proof of Principle Testing work plans and QA/QC Plans
 - **Silos 3 Project**
 - Conduct oral presentations from potential contractors; receive Final Technical and Price Proposals
 - Initiate dismantlement of Silo 3 Small Scale Waste Retrieval System

OPERABLE UNIT 5

July 1998

- Enforceable Milestones Completed
 - **Aquifer Restoration/Wastewater Project (ARWWP)**
 - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) for June 1998 to OEPA on July 14, 1998
 - Submitted NPDES Noncompliance Report to OEPA on July 14, 1998
 - Exceeded 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision (ROD). The actual concentration level was 20.7 ppb
 - Commenced South Field Extraction System operations July 13, 1998, in advance of actual milestone date of August 1, 1998

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- **Soil Characterization and Excavation Project (SCEP)**
 - Submitted Area 8 Phase I (*13-Acre Tract Centrally Located in Portion of Fernald Site West of Paddys Run*) Certification Report to Agencies July 31, 1998, in advance of actual milestone date of August 31, 1998

- **Major Work Initiated/Continued/Completed**
 - **ARWWP**
 - Completed Standard Startup Review (SSR) for South Field Extraction System and commenced operations July 13, 1998
 - Submitted Substantive Permitting Cross-Walk for Sludge Removal Systems Project to Agencies July 28, 1998
 - Continued preparations for SSRs for South Plume Optimization and Injection Demonstration modules
 - **SCEP**
 - Mobilized Area 2 Phase I (*Southern Waste Units*) subcontractor for excavation of Stockpile 5 and Inactive Flyash pile; completed Stockpile 5
 - Completed bioengineering stabilization at Paddys Run Embankment in vicinity of Southern Waste Units retention basins
 - Completed data validation and statistical analysis of certification sampling performed for Area 8 Phase I (*13-Acre Tract Centrally Located in Portion of Fernald Property West of Paddys Run*); Certification Report completed and submitted as noted in SCEP milestones listed above
 - Received OEPA acceptance of response to comments on Area 1 Phase II (*Southern Portion of East Field*) precertified-for-construction design package
 - Began preliminary screening of vendor proposals for lead-contaminated soil treatability work in former Trap Range area of Area 1 Phase II
 - Natural Resource Restoration
 - Completed design of On-Property Public Access Habitat Area Supplemental Environmental Project; initiated procurement activities
 - Army Corps of Engineers continued ongoing survey of property proposed for Conservation Area Supplemental Environmental Project
 - Continued public involvement activities associated with determining final land use of Fernald property
 - Ecological Research Supplemental Environmental Projects
 - Work Plan approved by USEPA July 10, 1998 (previously approved by OEPA June 24, 1998)
 - Issued scope of work for *Ecological Restoration Case Study* subproject to prospective universities
 - Surveyed reference sites for *Establishment of Prairie Vegetation on Undisturbed Areas of Area 8 Phase I* subproject
 - *American Chestnut Restoration* subproject trees in greenhouse have reached approximately 3-4 feet in height

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- Submitted following documents/plans to Agencies: - 1776
 - Revised Users Guidelines, Measurement Strategies, and Operational Factors for the Deployment of In-Situ Gamma Spectroscopy at the Fernald Site — July 15, 1998
 - Revised Precertification Project Specific Plans (PSPs) for Area 9 Phase I (*Northern Portion of Area East of Eastern Fernald Property Line*) — July 23, 1998
 - Revised Natural Resource Impact Assessment and Revised Natural Resource Restoration Plan — July 28, 1998
 - Final Sitewide Excavation Plan — July 31, 1998
 - Area 2 Phase I Final Implementation Plan (including response to comments on Addendum Number 1) — July 31, 1998

August 1998

- Enforceable Milestones Completed
 - **Aquifer Restoration/Wastewater Project (ARWWP)**
 - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) for July 1998 to OEPA August 13, 1998
 - Submitted NPDES Noncompliance Report to OEPA August 13, 1998
 - Commenced South Field Extraction System operations July 13, 1998, in advance of actual milestone date of August 1, 1998
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
NOTE: USEPA and OEPA were informed, by DOE, of the exceedance of the 20 ppb during the month of July on August 6, 1998 (DOE-1063-98). No specific actions were required but FDF/DOE committed to evaluating the design capacity of the SWRB (sources of input and operational guidelines.)
 - **Soil Characterization and Excavation Project (SCEP)**
 - Submitted Area 8 Phase I (*13-Acre Tract Centrally Located in Portion of Fernald Site West of Paddys Run*) Certification Report to Agencies July 31, 1998, in advance of actual milestone date of August 31, 1998
- Major Work Initiated/Continued/Completed
 - **ARWWP**
 - Completed Standard Startup Review (SSR) for South Plume Optimization Module and commenced operations August 9, 1998
 - Completed System Operability Testing for Injection Demonstration Module August 28, 1998
 - Initiated SSR for Injection Demonstration Module August 31, 1998

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- **SCEP**
 - Completed excavation of Interceptor Ditch #2 within Area 2 Phase I (*Southern Waste Units*); continued excavation of Inactive Flyash Pile
 - Received approval from Agencies on Area 8 Phase I Certification Report; area is certified clean
 - Reviewed qualification statements from vendors interested in lead-contaminated soil treatability work in former Trap Range area of Area 1 Phase II (*Southern Portion of East Field*)
 - Submitted Area 1 Phase II Certified for Construction Site Preparation Design Package (including Final Work Plan) August 21, 1998
 - Natural Resource Restoration
 - Received Phase I Wetland Mitigation Conceptual Design from contractor August 21, 1998; initiated review
 - Army Corps of Engineers continued ongoing preparation of draft easement for property proposed for Conservation Area Supplemental Environmental Project
 - Completed design of On-Property Public Access Habitat Area and certified drawings for construction
 - Continued public involvement activities associated with determining final land use of Fernald property
 - Issued design contract to Munro Ecological Services for Demonstration Forest Project
 - Ecological Research Supplemental Environmental Projects
 - Received initial proposals from prospective universities for *Ecological Restoration Case Study* subproject
 - *American Chestnut Restoration* subproject trees in greenhouse have reached 4 feet in height

September 1998

- Enforceable Milestones Completed
 - **Aquifer Restoration/Wastewater Project (ARWWP)**
 - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge monitoring Report to the OEPA on September 14, 1998
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
 - Submitted the NPDES Noncompliance Report to the OEPA on September 2, 1998
 - Commence operations of the Re-Injection Demonstration Module on September 2, 1998, ahead of the RA Work plan established date
 - **Soil Characterization and Excavation Project (SCEP)**
 - Submitted Phase I, Wetland Mitigation Design to DOE-FN September 17, 1998
 - Met with Ross merchants, Hamilton County Planning Commission, and Butler County planning Commission
 - Participated in Natural Resource Trustees Public Meeting on September 23, 1998

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- Major Work Initiated/Continued/Completed
 - **Aquifer Restoration/Wastewater Project (ARWWP)**
 - Submitted the USEPA Discharge Monitoring Reports Quality Assurance (DMRQA) Study 18 Laboratory Performance Evaluation to the DOE for submittal on September 22, 1998
 - Submitted an information sheet to support the substantive permitting cross-walk previously transmitted to the USEPA and OEPA on the Sludge Removal Systems Project to DOE on September 22, 1998 for transmittal to the Agencies
 - Completed start-up of the full-scale Great Miami Aquifer remediation in the South Field and South Plume areas

October 1998 (Anticipated Activities)

- Enforceable Milestones
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA
- Major Work Initiated/Continued/Completed

WASTE MANAGEMENT

July 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Low Level Waste
 - Shipping remains suspended due to incident involving transportation of white metal boxes to Nevada Test Site (NTS); implementation of corrective actions is ongoing
 - NTS Radiological Waste Acceptance Program team visited Fernald July 28-31, 1998, to perform an audit of Waste Packaging and Shipping Program
 - Mixed Waste Shipping
 - Continued evaluation of historical sampling and analysis of 150 drums of mixed waste identified for shipment to Envirocare of Utah, Inc.
 - Mixed Waste Treatment Projects
 - Liquid Mixed Waste --- Applications for shipment of Batches #7 (19,000 + gallons mixed waste) and #8 (newly generated and recharacterized low level waste) to Toxic Substance Control Act (TSCA) Incinerator remained in review by State of Tennessee; DOE has requested written response concerning delay of review

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- Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Treated 209 drums of waste in June, for project total of 1,033 drums
 - Solvent Extraction Project --- Completed inventory of equipment to be free-released and finished moving it into position for shipment
 - Organic Treatment Project --- Continued investigation of off-site treatment options and preparation/review of RFP
- Hazardous Waste/Recycling Project --- Prepared paperwork for photochemical shipment (by Safety-Kleen, Inc.) and Lab Pack shipment (by Heritage Environmental Services, Inc.)
- Thorium Legacy Waste Stabilization Project --- Finalized Lift Plans for installation of subcontractor equipment in Building 65

August 1998

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Low Level Waste
 - Received report from Nevada Test Site (NTS) Radioactive Waste Acceptance Program team, based on audit of Fernald's Waste Packaging and Shipping Program conducted July 27-30, 1998
 - Shipping remains suspended pending resolution of one remaining corrective action item
 - Mixed Waste Shipping
 - Continued evaluation of historical laboratory analysis of 150 drums of mixed waste identified for shipment to Envirocare of Utah, Inc.
 - Mixed Waste Treatment Projects
 - Liquid Mixed Waste --- Received approval for shipment of Batch #7 (19,000+ gallons mixed waste) to Toxic Substance Control Act (TSCA) Incinerator; continued evaluation of newly generated waste streams for potential bulking into Batches #9 and #10
 - Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Treated 176 drums of waste in August, for project total of 1,209 drums; completed all processing as of August 19, 1998
 - Organic Treatment Project --- Completed final draft of RFP Statement of Work
 - Hazardous Waste/Recycling Project --- Shipped total of 47 labpack drums of excess chemicals (via Heritage Environmental Services, Inc.) in two separate shipments; made one shipment of photochemicals (via Safety-Kleen, Inc.)
 - Thorium Legacy Waste Stabilization Project --- Approved Lift Plans for installation of subcontractor equipment in Building 65, finalizing Phase I of contract

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September 1998

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Low Level Waste
 - Shipping remains suspended at DOE/HQ direction
 - Direction was given to incorporate low level Waste and NPDS inventory into scope of work. Work continues to define this new inventory and quantify changes in project scope
 - Mixed Waste Shipping
 - Continued evaluation of historical lab analysis of 150 candidate drums of waste identified for shipment to Envirocare; following evaluation and acceptance of analysis waste profiles will be prepared for shipment.
 - Mixed Waste Treatment Projects
 - Liquid Mixed Waste
 - TSCA Incinerator and the State of Tennessee have approved Batch 7 shipment to TSCA Incinerator for treatment. Shipment of Batch 8 has been delayed due to lengthy review underway by the State of Tennessee. Newly generated waste streams continue to be evaluated for bulking into Batch 9 and Batch 10
 - Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Treated 1209 drums to date. All NPDS processing completed August 19, 1998.
 - A PermaFix decontamination and demobilization procedure has been submitted.
 - Prepared task orders and moved 372 drums and 40 half-high boxes to storage in support of demobilization
 - Crushed 64 drums during Plant 6 drum crusher operations
 - Hazardous Waste/Recycling Project
 - Revised photochemical Request for Proposal, under review by Contracts and Acquisitions
 - Completed work on disposition of Building 12, Paint Room excess chemicals
 - Thorium Legacy Waste Stabilization Project
 - Received DOT classification and general packaging requirements for the first MEFs for the Low Level Thorium
 - Completed package for submittal of project and submitted it to the Technical Review Board
 - The Performance Objective Criteria (POC) was signed for FY99 by Field operations
 - Informed with OHM Remediation Services, Inc. that Phase II of their contract to stabilize mixed thorium waste would not be awarded
 - Met with operations team to work on startup activities for Thorium Low Level Waste (LLW) operations

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- Waste Minimization/Pollution Prevention
 - Completed surveillance of shredded copper project at Alaron Corp.
 - Evaluate Task order for recycling of 300+ tons of rail, 130 tons of tie-plates, and 6 tons of spikes.
 - Reached an agreement between DOE-FN and DOE-ORO to transfer 1340 tons of Copper Motor Winding to Oak Ridge for recycling

October 1998 (Anticipated Activities)

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Low Level Waste
 - 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
 - Continue to investigate offsite treatment options and onsite treatment technologies
 - Mixed Waste Shipping
 - 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
 - Contact TSCA Incinerator to gain confirmation of October 1998 shipment of Batch 7
 - Initiate bulking of RCI Solvent Extraction aqueous waste into Batch 9 for shipment to TSCA incinerator
 - Commence shipment of Batch 8 upon approval by TSCA incinerator and State of Tennessee
 - Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Complete Task order and begin demobilization from Plant 6. Continue to move drums and boxes from Plant 6 in support of demobilization
 - Repackage and transfer cement chips generated during drum crushing activities
 - Hazardous Waste/Recycling Project
 - Assist with disposition of the remaining Building 12 chemical inventory
 - Thorium Legacy Waste Stabilization Project
 - Work to clear Building 64 pad of trailers and boxes belonging to other projects
 - Work with Waste Characterization to determine if any LLW Thorium will require stabilization due to excessive moisture content
 - Evaluate impact of Waste management self-assessment to commencement of SSR

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- Respond to Technical Review Board (TRB) inquires concerning LLW operations and continue to prepare for startup of LLW operations
- 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
 - Complete evaluation for the recycle of rail, spice plates and spikes

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ATTACHMENT A & B

EFFLUENT AND RADON DATA
ARE NOW REPORTED IN THE IEMP SUBMITTAL

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ATTACHMENT C

REMOVAL ACTION STATUS REPORT

Note: All Removal Action except 3, 9, 12, 17, 26 and 27 are completed and closed. Removal Action 3, 9, 12, 17, 26 and 27 are Programmatic Removal Actions and work continues under them. All documentation for work done this quarter under these Programmatic Removal Actions is located in the Post-Rod files. Gradually work performed under these actions is being phased out and being done pursuant to appropriate Remedial Actions.

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Extraction of Water Under FEMP Buildings AKA: Plant 6 Contaminated Perched Water	1	Closed	September 13, 1995	Pump water from extraction wells underneath Plants 2/3, 6, 8, and 9. Treat extracted water for volatile organic chemicals and uranium removal before discharge
Waste Pit Area Runoff Control	2	Closed	July 2, 1992	Collect and treat contaminated storm water run-off from the waste pit area
South Plume	3	Closed, transferred to Post-ROD	May 22, 1997	Collect and treat contaminated storm water from waste pit area, install new alternate water supply, pump and discharge groundwater from South Plume, install and operate interim Advanced Waste Water Treatment System, Conduct groundwater monitoring and institutional controls, conduct groundwater modeling and geochemical investigation
Silo 1 and 2	4	Closed	May 17, 1994	Install bentonite cap to reduce and monitor radon emissions, provide follow-on monitoring
K-65 Decant Sump Tank	5	Closed	March 5, 1993	Periodically remove liquid from K-65 decant sump tank
Waste Pit 6 - Exposed Material	6	Closed	March 25, 1992	Eliminate potential airborne contamination by resubmerging exposed pit material
Plant One Pad Continuing Release	7	Closed	February 16, 1995	Implement run-on/off control, install new pad, and upgrade existing Plant 1 Storage Pad
Inactive Flyash Piles/ South Field Area	8	Closed	December 23, 1991	Install plastic chain link barrier and post warning signs
Removal of Waste Inventory	9	Closed - Transferred to Post-ROD	May 22, 1997	Disposition of low-level waste off-site
Active Flyash Pile Controls	10	Closed	May 16, 1997	Complete interim surface stabilization and complete active Flyash pile controls
Pit 5 Experimental Treatment Facility (ETS)	11	Closed	April 22, 1992	Remove contents, structure, and filter material. Backfill and cap with clay cover
Safe Shutdown	12	Closed - Transferred to Post-ROD	May 22, 1997	Remove uranium and other material from former processing equipment and ship material and equipment off-site
Plant 1 Ore Silos	13	Closed	November 6, 1995	Dismantle fourteen ore silos and their support structures
Contaminated Soils Adjacent to Solid Waste Incinerator at the Sewage Treatment Plant	14	Closed	January 3, 1995	Isolate or remove and dispose of contaminated soils from the vicinity of the sewage treatment plant
Scrap Metals Pile	15	Closed	November 14, 1994	Disposition of LLW Ferrous/non-ferrous scrap metal, Containerize and dispose of scrap copper
Collect Uncontrolled Production Area Runoff - Northeast	16	Closed	May 22, 1997	Collect storm water run-off from the northeast perimeter of the former production area in the Storm Water Retention Basin
Improved Storage of Soil and Debris	17	Closed - Transferred to Post-ROD	May 22, 1997	Improve storage of existing and future generated soils and debris
Control Exposed Material in Pit 5	18	Closed	May 13, 1993	Eliminate potential airborne contamination by re-submerging exposed pit material
Plant 7 Dismantling	19	Closed	August 18, 1995	Dismantle and dispose of the Plant 7 structure
Uranyl Nitrate Neutralization Project	20	Closed	January 16, 1997	Neutralize, filter and package UNH inventory
Silo 3	21	Closed	February 24, 1993	Mitigate the potential release of hazardous waste material by covering and sealing dust collector hopper, removing dust collector, and capping and covering obvious release pathways
Waste Pit Area Containment Improvement	22	Closed	August 1, 1993	Stabilize south barrier of Pit 4; regarding drainage ditches along Pits 3, 4, 5, and 6; and resurface road between Pits 3, 4, 5, and 6

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REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Inactive Flyash Pile	23	Closed	June 29, 1992	Conduct field investigation to identify locations requiring material removal
Pilot Plant Sump	24	Closed	January 14, 1994	Remove liquid and sludge from the sump
Nitric Acid Rail Car	25	Closed	November 12, 1993	Remove residual contents from tank car and decontaminate and dispose of tank car
Asbestos Removal	26	Closed - Transferred to Post-ROD	May 22, 1997	Mitigate the potential for contaminant and migration of asbestos fibers
Management of Contaminated Structures	27	Closed - Transferred to Post-ROD	May 22, 1997	Management of contaminated structures
Fire Training Facility	28	Closed	July 11, 1995	Remove, decontaminate, dispose, treat or store contaminated structures, equipment, and soil from the former Fire Training Facility
Erosion Control of Inactive Flyash Pile; AKA: Temporary Nitrate Storage Tanks	29	Closed	March 2, 1994	Mitigate the threat of erosion induced slope failure and discharge of flyash to Paddy's Run
KC2 Warehouse Well	30	Closed	May 28, 1997	Minimize future groundwater contamination by intercepting contaminated seeps that drain from the South Field and Inactive Flyash Pile and infiltrate to the GMA
South Field and Inactive Flyash Piles Seepage Control Project	31	Closed	December 8, 1995	

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