



Department of Energy

**Ohio Field Office
Fernald Area Office**
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2410

JUL 16 1999

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-0937-99

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 JUNE 1, 1999,
THROUGH JUNE 30, 1999, AND QUARTERLY REPORT FOR THE PERIOD APRIL 1, 1999,
THROUGH JUNE 30, 1999, INCLUDING REMOVAL ACTION STATUS REPORT**

This letter transmits the amended Consent Agreement Monthly Report for the period of June 1, 1999, through June 30, 1999, and the Quarterly Report for the period of April 1, 1999, through June 30, 1999. 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 Fernald Environmental Management Project (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

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
T. Walsh, 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/31
B. Irvine, FDF/65-2
ECDC, FDF/52-7

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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1, 1999 through June 30, 1999. 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

April 1999

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Completed revision of RA deliverables and resubmitted on April 2, 1999 to the Agencies for review and approval
 - Review of Rail Tender with CSXT/UPRR Railroads for waste shipments was completed by DOE/FDF
 - Continued with completion of remaining facilities
 - Continued training of FAT&LC personnel for full Operations
 - Completed SSR for Offsite Rail Operations
 - Initiated First Rail Shipment to Envirocare on April 26, 1999

May 1999

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Continued review of the revised RA Package by the Agencies
 - Continued with completion of remaining facilities
 - Continued training of FAT&LC personnel for full Operations
 - Processed 160 railcars of material for month of May (71 from SP6)
 - Shipped 156 railcars of material for disposition to Envirocare

June 1999

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Continued review of the revised RA Package by the Agencies
 - Continued construction of facilities needed for Pit Excavation
 - Continued training of FAT&LC personnel for full Operations

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- Completed excavation of SP6 and initiated excavation of SP7
- Processed 91 railcars of material from SP6 and SP7, shipped 99 railcars of material for disposal at Envirocare

July 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None
- Major Work to be Initiated/Continued/Completed
 - Complete facilities needed for Pit Excavation
 - Await Agency approval of RA Work Package
 - Initiate and complete SSR for Pit Excavation
 - Complete excavation of material from SP7 and initiate excavation and load out of material from Waste Pits
 - Complete process facilities construction
 - Initiate CAT/SOT for process facilities, finalize plans for Dryer Operations SSR
 - Continue training of FAT&LC personnel for full Operations
 - Submit final RA package to the Agencies for final approval
 - Process 78 railcars of material from SP7 and waste pits, ship 53 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 reported under OU5/Soils Characterization and Excavation Project

April 1999

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - Began construction of Cell 3
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Issued failure analysis reports

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- Initiated installation of Interim Leachate Transmission line
- Commenced clay screening in Borrow Area
- Soil Characterization and Excavation Project (SCEP)
 - Await Agency comments regarding draft Fact Sheet and letter allowing the South Firing Range in-situ stabilization with OSDF disposal
 - Continue pre-certification activities regarding Area 2, Phase III RTRAK
 - Submitted Certification Design letter for the North area of Area 1, Phase II (Cell 3); collected samples at Cell 3 footprint
 - Presented Area 1, Phase II Supplemental Characterization Package to Agencies on April 27, 1999
- Natural Resource Restoration
 - Await USEPA approval of Wetland mitigation design
 - Continued discussions with Natural Resource Trustees regarding settlement of Ohio's claim
 - Continued project activities in the On-Property public Access Habitat Area
- Ecological Research Projects
 - Continued with projects
 - Initiated ecological case study

May 1999

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Completed installation of Interim Leachate Transmission Line
 - Issued the design for Interim Leachate Transmission Line to USEPA and OEPA
 - Continued clay screening in Borrow Area
 - Continued Cell 3 construction
 - Issued revised Systems Plan to USEPA and OEPA
 - Soil Characterization and Excavation Project (SCEP)

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- Submitted response for Agency comments on Real-Time Program documents (to DOE) on May 17, 1999
- Completed Treatability Study on Firing Range on May 15, 1999
- Continued sampling of Inactive Flyash Pile
- Continued precertification activities in A2, PIII/RTRAK area
- Received approval from the Agencies on the Certification Report for OSDF, Cell 3
- Completed construction and addressed punch list items in the Site Preparation Package for A1PII
- Began preparatory activities for the Sewage Treatment Plant excavation
- Received OEPA concurrence for the Treatability Study Report regarding the Trap Range on May 13, 1999
- Conducted Alignment Meeting on May 21, 1999, for Title VIII work in Area 3A/4A
- Natural Resource Restoration
 - Review of the Finding and Responsiveness Summary by DOE continues
- Ecological Research Projects
 - Continued with projects
- Conservation Area OU4 Supplemental Environmental Project
 - Completed Appraisal Report

June 1999

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Received Ohio EPA approval to resume waste placement in OSDF Cell 1 on June 29, 1999
 - Continued clay screening in Borrow Area (Stockpiled approximately 73,000 tons of the 80,000 tons required for construction of Cell 3)

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- Continued Cell 3 construction
- Soil Characterization and Excavation Project (SCEP)
 - Continue to establish Quality Assurance/Quality Control (QA/QC) Program for Real-Time Program
 - Completed additional sampling in Inactive Flyash Pile
 - Mobilized in the Firing Range area on June 21, 1999
 - Area 1, Phase II
 - Completed construction addressed punch list items
 - Began preparatory activities including construction of OSDF support road
 - Continues excavating Above Waste Accepted Criteria (AWAC) soil
 - Received and prepared containers for AWAC sludge cake mixed waste for shipment to Envirocare
 - Began excavation and containerization week of June 28, 1999
 - Received approval of Supplemental Characterization Package from OEPA on June 14, 1999
 - Area 2, Phase III, RTRAK
 - Submitted revised certification design letter, Project Specific Plans (PSP), and response comments to Agencies on June 15, 1999; received Agencies approvals on June 21, 1999
 - Initiated certification sampling on June 28, 1999
 - Production Area (Areas 3, 4, & 5)
 - Received OEPA comments on the integrated Remedial Design Package for the lime Sludge ponds on June 21, 1999
 - Received Lockwood Green Technologies Task Order Plan for Area 3A/4A Title I/II design work on June 17, 1999
 - Submitted project Specific Plan for Area 3A/4A Surface Predesign Investigation to Agencies on June 18, 1999
- Natural Resource Restoration
 - Submitted comment responses to USEPA regarding the Wetland Mitigation Design on June 1, 1999
 - Issued DOE Finding and Responsiveness Summary on June 29, 1999

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- Ecological Research Projects OU4 Supplemental Environmental Project
 - Continued with projects

July 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continue waste placement into Cells 1 and 2
 - Continue clay screening in Borrow Area
 - Continue Cell 3 construction
 - Continue design of Permanent Leachate Line
 - Soil Characterization and Excavation Project (SCEP)
 - Submit documentation of Gator RSSII calibration to Agencies for concurrence
 - Begin excavation of Southfield area
 - Initiate stabilization of lead contaminated soil and take confirmatory samples seven days following treatment
 - Continue certification sampling and analysis in Area 2, Phase III, RTRAK area
 - Complete punch list, final project walkdown and closeout project with regard to Area 1, Phase II Site Preparation Package
 - Complete excavation of AWAC soil, digester sludge and sludge cake mixed waste; begin deep excavations and utility removals
 - Complete containerization, pending laboratory analysis
 - Complete East and West Impacted Material Stockpile and excavations
 - Resolve comments and finalize Lockwood Greene Technologies Task Order plan for Area 3A/4A, Title I/II design work
 - Perform field activities for Area 3A/4A surface predesign investigation

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- Submit Project Specific Plan for Area 3A/4A subsurface predesign investigation
- Respond to Agency comments on Lime Sludge Ponds Integrated Remedial Design Package
- Begin real-time and physical sampling of Area 7, Phase I
- Natural Resource Restoration
 - Continue with projects
- Ecological Research Projects OU4 Supplemental Environmental Project
 - Continue with projects
 - Continue to monitor growth in vegetation plots

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

April 1999

- Enforceable Milestones
 - Delivered final version of the Thorium/Plant 9 Project Completion Report to the DOE on April 6, 1999; this was forwarded to the Agencies on April 8, 1999
- Major Work Initiate/Continued/Completed
 - Facilities Shutdown Projects
 - Provided Plant 12 Turnover Package to Demolition Projects
 - Completed East and West Pipe Bridges
 - Facility Demolition/Supplemental Environmental Projects
 - Received and incorporated comments for the Plant 6 Implementation Plan
 - Continued work on the development of a Closure Procedure for D&D Projects
 - Revised the Facility Land Use & Master Plot Plan, met due date of April 30, 1999
 - Issued Recycling Supplemental Environmental Projects (RSEP) Project Close-out Report to DOE on April 22, 1999 for forwarding to the Agencies
 - Submitted Plant 5 D&D Implementation Plan to DOE on April 23, 1999 for forwarding to the Agencies
 - Developed database for the estimates of PPE laundry requirements for the years 2000-2002
 - Resolved comments on the Safe Shutdown project Completion Report
 - Issued Plant 6 D&D Implementation Plan to the DOE on April 29, 1999
 - Awarded Plant 5 contract to MACTEC, Inc. of Golden, Colorado on April 22, 1999

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May 1999

- Enforceable Milestones
 - None

- Major Work Initiate/Continued/Completed
 - Facilities Shutdown Projects
 - Completed the Pipe Bridges
 - Plant 5 D&D
 - Issued Notice to Proceed to MACTEC on May 17, 1999
 - Conducted a job kick-off meeting on May 18, 1999, between MACTEC, FDF, and the Greater Cincinnati Building and Construction Trades Council
 - Began mobilization of key project personnel by MACTEC
 - Maintenance/Tank Farm D&D and Water Storage Tank Project
 - Awarded options 12B, 12C, and the Railroad Locomotive to NSC
 - Completed D&D of Buildings 12B and 12C

June 1999

- Enforceable Milestones
 - None

- Major Work Initiate/Continued/Completed
 - Maintenance/Tank Farm D&D and Water Storage Tank Project
 - Continued D&D activities at Building 12A
 - Continued activities at the new Water Storage Tank Project
 - Facilities Shutdown Projects
 - Completed work at the Burn Pad
 - Began work on Building 63

July 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None

- Major Work to be Initiate/Continued/Completed
 - Facilities Shutdown Projects
 - Complete work at Building 63
 - Initiate work on Building 64/65

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OPERABLE UNIT 4 - SILOS PROJECT

April 1999

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Finalized the Project Plan for the VitPP Waste disposition project
 - Submitted comments on draft test Reports to Proof of Principle Testing contractors; began review of vendor comment responses
 - Finalized Project Management Plan and QA Plan for the Silo 3 Project
 - Continued construction on the Roads and Electrical Upgrade portion of the Silos Infrastructure Project

May 1999

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Finalized Safety Basis Implementation Plan for the Silo 3 Project
 - Began development of Design Basis Document and Conceptual Design for the Silo 3 Project
 - Continued evaluation of transportation and disposal alternatives for treated Silo materials
 - Conducted briefings on draft Final test reports from the four Proof of Principle testing vendors
 - Finalized responses to comments on draft POP test reports
 - Received draft baseline schedule from Foster Wheeler for the Silos 1 and 2 Accelerated Waste Retrieval Project; conducted alignment meeting with FDF, DOE, and Foster Wheeler counterparts
 - Initiated conceptual design on the Silos 1 and 2 Accelerated Waste Retrieval Project
 - Initiated Dome Seal Repair on Silos 1 and 2

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June 1999

- Enforceable Milestones
 - None

- Major Work Initiated/Completed
 - Closed readiness audit of treatment and disposal facility for VitPP Waste Disposition Project
 - Initiated review of several RMRS submittals for the Silo 3 Project, including the Design Basis, Conceptual Design, and 30% Integrated Hazard Analysis
 - Completed Silos 1 and 2 Dome Seal Repair project
 - Finalized vendor test reports for Silos 1 and 2 Proof of Principle testing; made reports available to reports to DOE, U.S. EPA, OEPA and stakeholders
 - Conducted a briefing on the conceptual designs for the Silo 3 and Accelerated Waste Retrieval Projects for the Agencies

July 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None

- Major Work to be Initiated/Continued/Completed
 - Review initial subcontractor submittals for Silos 1 and 2 Accelerated Waste Retrieval Project
 - Conduct briefing on Silos Project status as the Topic-of-the-Month at July Cleanup progress briefing
 - Complete construction activities for the Silos Infrastructure Project
 - Review the following RMRS submittals for the Silo 3 Project:
 - Design basis Document and Conceptual Design Package
 - 30% Integrated Hazard Analysis
 - 30% Hazard Category Calculations

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

April 1999

- Enforceable Milestones

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- Submitted monthly NPDES Discharge Monitoring Report to the OEPA on April 14, 1999 covering the month of March
- Submitted the NPDES Noncompliance Report to the OEPA on April 14, 1999 covering the month of March
- Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

- Work Initiated/Continued/Completed
 - Began construction of SWRB area drainage improvement
 - Completed demolition of existing AWWT Lab to support AWWT Lab Expansion. Construction contract was awarded to C-Force on April 5, 1999, Notice to Proceed was issued on April 13, 1999, and Authorization to Mobilize was issued on April 28, 1999
 - Continued construction for the Sludge Removal System at the Stormwater Retention Basin (SWRB) and Biosurge Lagoon (BSL). Work is approximately 50% complete
 - Submitted the Draft Operations and Maintenance Master Plan for the Aquifer Restoration and Wastewater Project, Revision 1 (OMMP) to the Agencies on April 15, 1999.
 - Completed construction of the Ozone Injection System at the SWRB and BSL and turned over to Operations on April 30, 1999

May 1999

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on May 13, 1999 covering the month of April
 - Submitted the NPDES Noncompliance Report to the OEPA on May 14, 1999 covering the month of April
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

- Work Initiated/Continued/Completed
 - Submitted the February 1999 Operating Report for the Re-Injection Demonstration on May 4, 1999 to DOE for transmittal to the Agencies. DOE transmitted to the EPA on May 12, 1999
 - Completed construction of SWRB area drainage improvement
 - Construction for the Sludge Removal System at the Stormwater Retention Basin (SWRB) and Biosurge Lagoon (BSL) is approximately 75% complete

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- Initiated procurement actions for AWWT DCS upgrade
- Initiated construction procurement to switch out the IX control panel at the AWWT to the DCS systems
- Initiated preliminary design of additional extraction wells for the South Field Extraction System (SFES)

June 1999

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on June 14, 1999 covering the month of May
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Submitted the March 1999 operating Report for the Re-Injection Demonstration on June 10, 1999 to DOE for transmittal to the Agencies. DOE transmitted the report to the Agencies on June 16, 1999
 - Construction for the Sludge Removal System at the Stormwater Retention Basin (SWRB) and Biosurge Lagoon (BSL) is approximately 97% complete
 - Procurement continues to negotiate terms and conditions for AWWT DCS upgrade
 - Contract to switch out the IX control panel at the AWWT to the DCS systems was awarded to System Sales, Inc. The vendor is currently assembling the panel
 - Initiated preliminary design of additional extraction wells for the South Field Extraction System (SFES)
 - Completed design of piping changes at AWWT to reroute groundwater directly to the Phase I clarifier overflow tank; construction planning has begun
 - Initiated construction planning to reroute backwash at AWWT directly to the SWRB

July 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA
 - Meet 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

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- Work to be Initiated/Continued/Completed
 - Submit monthly 1999 Operating Report for the Re-Injection Demonstration to DOE for transmittal to the Agencies
 - Continue to geoprobe in the South Field area
 - Complete design for additional extraction wells for the South Field on July 30, 1999
 - Continue construction of AWWT Laboratory Expansion

- Begin drilling two new extraction wells in the South Field

WASTE MANAGEMENT

April 1999

- Enforceable Milestones
 - None

- Work Initiated/Continued/Completed
 - Mixed Waste Shipping
 - Determination of additional requirements for shipment of wastes to a permitted commercial disposal facility are being made by Waste Characterization personnel. Upon determination, WTP will ship 143 drums to the permitted facility
 - Liquid Mixed Waste Project
 - Continue to evaluate newly generated waste streams for bulking into Batch 9, Batch 10 and Batch 11
 - Completed transfer of first Batch 7 DOE to tanker trailer on April 7, 1999, tanker was shipped to TSCA Incinerator on April 12, 1999
 - Completed transfer of Batch 7, Shipment 2 on April 14, 1999
 - Shipped Batch 7, Shipment 2 to TSCA Incinerator
 - Completed transfer of Batch 7, Shipment 3 on April 20, 1999; shipment was made to TSCA Incinerator on April 21, 1999
 - Completed transfer of Batch 7, Shipment 4 on April 26, 1999; shipment was made to TSCA Incinerator on April 28, 1999
 - Delivery of the fifth Batch 7 DOE tanker was made to the FEMP on April 29, 1999

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- Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - This project is complete. A letter acknowledging USEPA's concurrence regarding the acceptability of the 61 drums of treated sodium sulfide was forwarded to DOE and will be included in the waste stream profile for NTS review. No further container activities will be conducted until profiles are approved by NTS
- Thorium Legacy Waste Project
 - Repackaged 30 boxes of Low-Level Waste (LLW) and 13 boxes of Mixed Waste (MW) for shipment to Nevada Test Site (NTS). Total LLW boxes repackaged to date is 242 and total MW boxes is 52
 - Moved boxes of thorium from the Quonset Hut (Bldg. 60) to Bldg. 65 for segregation and repackaging of mixed waste as part of the Thorium Legacy Waste Project
- RCI Solvent Extraction Project
 - Completed the removal of waste from the OEP tanks to tote tanks to be bulked into Batch 9
- Organic Treatment Project (OTP)
 - FDF and Materials & Energy Corporation (M&EC) signed a contract for treatment of organic mixed waste. The Statement of Work (SOW) is a reduced scope of treatment, which would include only First Article Testing (of chosen Treatment Technology) on approximately 9 percent of the legacy containers for current fiscal year
 - Completed radiological review of Material Evaluation Forms (MEF) to be treated as part of First Article Testing
 - Developed three additional treatment campaigns to include remaining legacy waste inventory. Campaigns will be completed as funds are available
- Hazardous Waste/Recycling
 - Safety-Kleen packaged 9 drums of photochemical waste from the old print shop in the Administration Building. Seventeen (17) drums of labpack chemicals are slated for shipment in May.
 - Attended Ohio Field Office Pollution Prevention Task kickoff meeting at Miamisburg

May 1999

- Enforceable Milestones
 - None

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- Work Initiated/Continued/Completed
 - Mixed Waste Shipping
 - Continue to determine additional requirements for shipment of wastes to a permitted commercial disposal facility. Upon determination, 143 drums will be shipped to a permitted facility
 - Liquid Mixed Waste Project
 - Continue to evaluate newly generated waste streams for bulking into Batches 9, 10 and 11
 - Revised TSCA Incinerator surveillance to list all Findings as satisfactorily addressed. The nonconformance has been closed, allowing for the final Batch 7 Shipment (#5) to be made to the TSCA incinerator
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - This project is complete. PermaFix personnel have arrived to begin repackaging equipment
 - Thorium Legacy Waste Project
 - Repackaged 76 boxes of Low-Level-Waste (LLW) for shipment to Nevada Test Site (NTS) and 4 boxes of Mixed Waste (MW). Total LLW boxes repackaged to date is 318 and the total MW boxes repackaged to date is 56
 - Moved 160 boxes of thorium from the Quonset Hut (Bldg. 60) to Building 64 for repackaging
 - NOTE: Production of repackaged containers has slowed due to shortened stay times due to summer weather and higher temperatures
 - RCI Solvent Extraction Project
 - Completed the transfer of methanol from the methanol tank to the 5,000-gallon tanker and moved the tanker to a location adjoining Building 80
 - Continued decontamination and decommissioning of the 6,500-gallon OEP tanks.
 - Continued D&D
 - Organic Treatment Project (OTP)
 - Completed radiological characterization for First Article Testing on May 18, 1999
 - Hazardous Waste Project (HWP)
 - HWP and Heritage Environmental packed and shipped 17 drums of lab chemicals from the Laboratory Building on May 3, 1999

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
 AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
 STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 THROUGH 31, 1999, AND
 QUARTERLY REPORT APRIL 1, 1999 THROUGH JUNE 30, 1999 INCLUDING REMOVAL
 ACTION STATUS REPORT

June 1999

- Enforceable Milestones
 - None

- Work Initiated/Continued/Completed
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - The project is complete. Radiological characterization is being generated for PermaFix packages
 - Thorium Legacy Waste Project
 - Repackaged 24 boxes of Low-Level Waste (LLW) for shipment to Nevada Test Site (NTS) and 3 boxes of Mixed-Waste (MW). Total LLW boxes repackaged to date is 342 and total MW boxes repackaged to date is 59.
 - Note: Production of repackaged containers has slowed due to shortened stay times because of high temperatures
 - Issued the SSR plan for thorium low-level waste shipments. On June 14, it was discovered that 43 of the LLW boxes being processed were determined to contain hydrogen generating waste. Work was stopped immediately upon discovery. To assure safe handling of the material in question, boxes with the potentially hydrogen generating material are to be consolidated within areas of Buildings 64 and 65. Thirty-two of these boxes have been consolidated to date in Building 65. The eleven remaining boxes are located in Building 64 and will be consolidated as they are sorted out from amongst the over 300 boxes presently stored in the building
 - Continued work on the repackaging efforts of containers that have been determined to be free of the potentially hydrogen generating waste
 - Began to revise the first profile (thoria gel) for resubmittal to NTS for approval prior to the commencement of shipments. The remaining thorium MEFs will be compiled into one profile. (The thoria gel profile was submitted on June 8, 1999 and the last profile was submitted on June 1, 1999)
 - Review of Thoria gel profile was conducted by NTS on June 24, 1999, and the status of the review is not known
 - RCI Solvent Extraction Project
 - Continued decontamination and decommissioning and will be completed pending Industrial Hygiene technician and Maintenance availability

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 THROUGH 31, 1999, AND
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- Liquid Mixed Waste Project
 - Continued to evaluate newly generated waste streams for bulking into Batch 9, Batch 10 and Batch 11
 - Batch 9 sampling and analysis was completed on June 8, 1999. All of Batch 7 has been shipped to the TSCA Incinerator. The first shipment of Batch 8 (approximately 4,000 gallons) was shipped on June 24, 1999
- Waste Minimization
 - Conducted Pollution Prevention in Environmental Restoration for Ohio Operations
- Mixed Waste Shipping
 - Radiological characterization information pertaining to 143 MWS candidate drums to Envirocare is undergoing DOT container review by Packaging & Shipping Compliance
- Organic Treatment Project
 - Submitted requests for absorbent determination for First Article Testing material
 - Received radiological characterization and submitted request for absorbent determination for remainder of OTP waste inventory

July 1999 (Anticipated)

- Enforceable Milestones
 - None
 - NOTE: Waste Treatment met with OEPA representatives on June 30 to discuss potential changes to the Site Treatment Plan. WTP will submit a notification of need to amend the STP the week of July 12 summarizing the changes from the reprogram change proposal as well as the change to off-site treatment. The agency will then determine whether the changes constitute revision or amendment in accordance with the Director's Findings and Orders.
- Work Initiated/Continued/Completed
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - After the completion of the NPDS project, WTP has been working to finalize arrangements to release approximately 60 drums of cement to Permafix, as well as contaminated equipment as a result of the project. The repackaging and shipment of equipment is anticipated for mid-July

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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- Thorium Legacy Waste Project
 - Continue repackaging operations
 - Continue working on a storage and treatment plan for MW Thorium
 - Commence shipping for LLW thorium the week of July 6, 1999
 - Receive approval of last thoria gel profile in support of vacating Building 64/65 as scheduled
- RCI Solvent Extraction Project
 - Complete decontamination and decommissioning activities
- Liquid Mixed Waste Project
 - Ship Batch 8, Shipment number 2, to TSCA Incinerator during the week of July 6, 1999
 - Delivery of Batch 8, Shipment 3 DOE tanker trailer to the FEMP is expected on July 2, 1999
- Waste Minimization
 - Identify reutilization options for approximately 328 "clean" concrete shield blocks
 - Finalize oil recycling RFP for issue by July 30, 1999
 - Award LaserJet contract (based on pre-award surveillance results) by July 23, 1999
 - Finalize Ohio Pollution Prevention Capabilities & Needs Report by July 30, 1999
 - Finalize tire recycling contract
- Hazardous Waste/Recycling
 - Repack broken fluorescent lamps
 - Acquire cost estimate from Rumpke for bulk water treatment chemicals pickup, treatment and disposal
 - Continue preparation for labpack shipment
- Mixed Waste Shipping
 - Ship 143 candidate drums upon final determination of additional requirements for shipment of wastes to a permitted commercial disposal facility
 - Begin Department of Transportation container reviews upon completion of radiological characterization
- Organic Treatment Project
 - Draft Project Execution Plan
 - Materials & Energy Corporation (M&EC) is on schedule for the final RCRA Part B permit in July
 - Await Packaging & Shipping Compliance container DOT classification for First Article Testing Material

ATTACHMENT A & B

**EFFLUENT AND RADON DATA
ARE NOW REPORTED IN THE IEMP SUBMITTAL**

ATTACHMENT C

REMOVAL ACTION STATUS REPORT

Note: All Removal Actions 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.

SCOPE

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 an 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
Uranium 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

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 6, 1995	

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