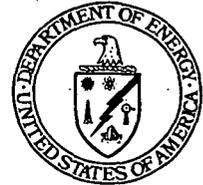




Department of Energy

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



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15 JAN 2002

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, IL 60604-3590

DOE-0241-02

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, OH 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 DECEMBER 1, 2001
THROUGH DECEMBER 31, 2001, AND QUARTERLY REPORT OCTOBER 1, 2001
THROUGH DECEMBER 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
JANUARY 1, 2002 THROUGH JANUARY 31, 2002, INCLUDING EFFLUENT AND RADON
DATA AND REMOVAL ACTION STATUS REPORT**

This letter transmits the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Monthly Report for the period December 1, 2001 through December 31, 2001 and Quarterly Report October 1, 2001 through December 31, 2001, including anticipated work for the period January 1, 2002 through January 31, 2002, and effluent and radon data and Removal Action Status Report. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the United States Environmental Protection Agency and Ohio Environmental Protection Agency.

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4091 15 JAN 2002

Mr. James A. Saric
Mr. Tom Schneider

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DOE-0241-02

If you have any questions, please contact me at (513) 648-3139.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Reising

Enclosures: As Stated

cc w/enclosures:

R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SRF-5J
D. Sarno, FCAB
V. Dastillung, FRESH
P. Dunn, FRESH
F. Hodge, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
D. Carr, Fluor Fernald, Inc./MS2
T. Hagen, Fluor Fernald, Inc./MS65-2
B. Irvine, Fluor Fernald, Inc./MS65-2
R. McDonough, Fluor Fernald, Inc./MS44-0-N
T. Poff, Fluor Fernald, Inc./MS65-2
C. Sutton, Fluor Fernald, Inc./MS35
D. Whitaker-Sheppard, Fluor Fernald, Inc./MS44-0-N
ECDC, Fluor Fernald, Inc./MS52-7

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT DECEMBER 1, 2001 THROUGH
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DECEMBER 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD JANUARY 1
THROUGH JANUARY 31, 2002, AND EFFLUENT AND RADON DATA AND REMOVAL
ACTION STATUS REPORT**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from October 1, 2001 through December 31, 2001. 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.

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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ACTION STATUS REPORT

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

October 2001

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Loaded 10,768.5 tons of material from waste pits
 - Shipped 60 railcars (UT47) of material for disposal at Envirocare

November 2001

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Loaded 10,981.4 tons of material from waste pits
 - Shipped 120 railcars (UT 48 and UT49) of material for disposal at Envirocare

December 2001

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Loaded 11,301.5 tons of material from waste pits
 - Shipped 120 railcars (UT 50 and UT 51) of material for disposal at Envirocare

January 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

- Major Work To Be Initiated/Continued/Completed
 - Load 10,444 tons of material from waste pits
 - Ship 60 railcars (UT 52) of material for disposal at Envirocare

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

**OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND
EXCAVATION PROJECT**

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

October 2001

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continued placement of vegetative layer for OSDF Cell 1 Cap
 - Completed procurement package for installation of monitoring devices and equipment and installation services and issued Design Change Notice (DCN) to OSDF Phase III contract
 - Continued placement of impacted materials from Southern Waste Unit (SWU) and various stockpiles in Cells 2 and 3
 - Continued placement of impacted material in Cell 2 catchment area
 - Continued Cell 1 Cap Construction activities
 - Completed work on Biointrusion Layer of OSDF Cell 1 Cap
 - Began removing the temporary leachate line
 - Soil Characterization and Excavation Project (SCEP)
 - Continued Area 1, Phase III Paddy's Run Debris Excavation
 - Received OEPA approval on the Draft Project Specific Plan (PSP) for Area 4B, Potentially Characteristic Area and West of Pilot Plant Predesign Investigations
 - Began excavation of the road between South Field and Active Fly Ash Pile
 - Submitted PSP for Solid Waste Landfill and Fire Training Facility Predesign to the DOE on October 18, 2001, for transmittal to the Agencies
 - Submitted PSP for Area 3A/4A Excavation Characterization and Precertification to the DOE on October 29, 2001, for transmittal to the Agencies

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

- Received Ohio EPA approval on variance to Area 1, Phase II Certification PSP on October 2, 2001
- Received Ohio EPA approval on Draft Area 2, Phase I Inactive Flyash Pile (IFP), South Field (SF), Carolina Area, East West Construction Remedial Design (RD) and Equipment Wheel Wash Facility Certification Design Letter (CDL) and PSP on October 3, 2001

November 2001

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Placed approximately 62,500 in-place cubic yards of impacted material in cells
 - Began permanent seeding of Cell 1 Cap
 - Completed screening of clay for Cells 4 and 5 liners
 - Completed filter layer placement on northwest and west to Cell 1 Cap
 - Continued placement of impacted material in Cell 2 Catchment Area
 - Began placement of impacted material from the Leachate Removal Project into Cells 2 and 3
 - Began Phase II Leachate Removal Project
 - Received approval on the Revised Impacted Material Placement Plan (IMPP) and Construction Quality Assurance; Transite Placement Change Pages from Ohio EPA on November 8, 2001 and USEPA on November 14, 2001
 - Completed Phase I Leachate Removal Project
 - Soil Characterization and Excavation Project (SCEP)
 - Awarded Contract FSC 653, Area 3A/4A Excavation/OSDF Phase IV Project to IT Corporation (Base contract only awarded - no options included) on November 8, 2001
 - Continued developing Environmental Assessment for Future Public Use of the FEMP

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT DECEMBER 1, 2001 THROUGH
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ACTION STATUS REPORT**

- Began the Area 3A Isolation Trenching activities
- Continued developing 2001 Restored Area Monitoring Report for Area 1, Phase I Wetland and Area 8, Phase II
- Began to prepare revised Stewardship Plan for submittal to DOE
- Began certification sampling at Area 2, Phase I Certification Units NWU-1, 2, 3, 4, and IFP-3
- Continued redesign efforts in the Arsenic Hot Spot Area
- Completed Air Gaps in Area 3A Southeast, Northwest, and Northeast quadrants
- Began Area 2, Phase II Title I Design
- Continued Area 3B/4B/4 Title I Design
- Began Area 1, Phase II certification of the Equipment Wash Facility and Drain Line
- Began RCRA and Above OSDF Waste Acceptance Criteria (WAC) soil stockpile preparation for soil from Building 12 and 10D Burn Pad

December 2001

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continued to place impacted material in the cells
 - Completed permanent seeding of Cell 1 Cap
 - Completed the installation of Erosion Mat on North and East Faces
 - Completed OSDF Equipment Wash Facility and associated Drainage Line Sampling
 - Continued to place impacted material in Cell 2 catchment area
 - Began and completed placement of impacted material from the Leachate Removal Project into Cells 2 and 3
 - Began Phase II Leachate Removal Project
 - Began removal of remaining stockpile materials southeast of C-4
 - Began conduit installation for the new technology cable
 - Continued Access Control Facility Project

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

- Completed installation of erosion mat for Cell 1 Cap
- Began Cell 1 Cap monitoring instrumentation
- Began Test Pits at Borrow Area

- Soil Characterization and Excavation Project (SCEP)
 - Continued developing Environmental Assessment for future public use of the FEMP
 - Completed the Area 3A Isolation Trenching activities on December 10, 2001
 - Began and completed the Area 4A Isolation Trenching activities
 - Issued the 2001 Restored Area monitoring Report for Area 1, Phase I Wetland and Area 8 Phase to Agencies and the Nationals Resource Trustees (NTRs)
 - Submitted the Revised Stewardship plan to the DOE
 - Continued certification sampling for Area 2, Phase I
 - Continued predesign efforts in the Arsenic hot Spot Area
 - Began Area 2, Phase II Title I Design
 - Continued Area 3B/4B/4 Title I Design
 - Began RCRA soil excavation and stockpile at Building 60
 - Completed installation of the liner in Basin SP-7
 - Completed Area 1, Phase II Equipment Wash Facility Certification Sampling and Analysis
 - Continued certification sampling in Area 9, Phase I
 - Continued developing Final Natural Resource Restoration Plan

January 2002 (Anticipated)

- Enforceable Milestones 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
 - Begin Construction Quality Control (CQC) Services for Borrow Sub-areas Pre-conformance Testing
 - Continue Phase II Leachate Removal Project
 - Continue removing remaining stockpile material southeast of C-4
 - Continue Access Control Facility Project
 - Complete Cell 1 Cap
 - Complete Test Pits at Borrow Area

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT DECEMBER 1, 2001 THROUGH
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ACTION STATUS REPORT**

- Complete winterization of Cells 2 and 3
- Complete conduit installation and electrical for Cell 1 cap monitoring instrumentation
- Begin horizontal wells 4 and 5

- Soil Characterization and Excavation Project (SCEP)
 - Issue Environmental Assessment for Future Public Use of the FEMP to the public
 - Continue Area 2, Phase II Title I Design
 - Begin Area 2, Phase II Title II Design
 - Complete Area 2, Phase II Sampling and Analysis at the Arsenic Hot Spot
 - Continue Area 3B/4B/5 Title I Design
 - Continue Area 3B/4B/5 Title II Design
 - Submit Certification Report Addendum to Area 1, Phase II Certification Report to address Equipment Wash Facility
 - Submit Comment Responses to the Agency's comments on the Solid Waste Landfill and Fire Training Facility Predesign PSP
 - Submit Comment Responses to the Agency's comments on the Area 3A/4A Excavation Characterization PSP
 - Begin Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design
 - Complete Certification sampling in Area 9, Phase I
 - Begin Northern Pine Chipping
 - Begin Area 4B Sampling
 - Begin incinerator pad (10D) above WAC excavation
 - Complete Maintenance Building RCRA excavation
 - Continue Certification Sampling of Area 2, Phase I
 - Begin Area 2, Phase II excavation and stockpiling in Area 3A
 - Complete Restoration Design for Southern Waste Units, Phase I
 - Issue Final Natural Resource Restoration Plan for public review

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

October 2001

- Enforceable Milestones Completed
 - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

- Major Work Initiated/Continued/Completed
 - Plant 6
 - Area 1
 - Completed Interior Transite Removal
 - Began Exterior Transite Removal
 - Area 2
 - Continued Release Cleaning
 - Completed Interior Transite Removal
 - Began Exterior Transite Removal
 - Area 3
 - Completed Interior Transite Removal
 - Began Exterior Transite Removal
 - Area 6A
 - Continued Miscellaneous Activities and Housekeeping
 - Area 7
 - Began Transite Removal and Structural Demolition
 - Facilities Shutdown
 - Began Utility Isolations in Area 3A and 4A
 - Began Isolation of the Domestic Water to the OSDF
 - Began Vitrification Plant Equipment Removal

November 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Plant 6
 - Area 1
 - Continued exterior transite removal
 - Began structural demolition
 - Area 2
 - Continued exterior transite removal
 - Began structural demolition
 - Area 3
 - Completed structural demolition
 - Area 6A
 - Continued miscellaneous activities and housekeeping
 - Area 7
 - Completed structural demolition

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

- Facilities Shutdown
 - Began excavation in Area 3A and 4A
 - Began isolation of the domestic water to the OSDF
 - Continued Vitrification Plant equipment removal
 - Began Building 53A furniture breakdown and removal
- Multi-Complex
 - Established construction area, installed electric service, established building enclosure and vestibule in Building 2A and 8A
 - Completed Hazardous Waste Management Unit (HWMU) #47 cleaning and preparing HWMU #48, #49 and #10 areas
 - Began gross lockdown/exterior transite removal in Area 2F
 - Began asbestos glovebag removal, in Building 8B, 3H and 18B
 - Began lead removal, gutters/flashing abatement, final clean of VAT area, release clean and lockdown area in Building 8B

December 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Plant 6
 - Completed structural demolition of Buildings 6G and 6A
 - Began size reduction of debris and placement in roll-off boxes for disposition
 - Multi-Complex
 - Completed demolition of Buildings 8D, 8E
 - Continued work in Building 2A, Buildings 8A, 8B, 8E, 8G, 8H, 3H, and 18B,
 - Continued Building 53A furniture breakdown and removal

January 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Plant 6
 - Continue miscellaneous activities and housekeeping
 - Continue debris removal
 - Multi-Complex
 - Continue work in Building 2A, Component 2F, Building 8A, 8B, 3H, 18B and 8G

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT

OPERABLE UNIT 4 - SILOS PROJECT

October 2001

- Enforceable Milestones Completed
 - Received approval from the Agencies regarding the revised Silos 1 and 2 Remedial Design Work Plan and the Revised Accelerated Waste Retrieval (AWR) Project Remedial Design/Remedial Action Schedule
- Major Work Initiated/Continued/Completed
 - Continued preparation of Silos 1 and 2 Conceptual Design, including design of the shipping/disposal container, and design data development testing
 - Presented a briefing on Silos project activities at the October Cleanup Progress Briefing
 - Continued preparation of Silo 3 Conceptual Design, including data development testing, development of the retrieval access strategy, evaluation of disposal containers
 - Initiated Design Change notices to incorporate design modifications resulting from the Radon Control System Due Diligence evaluation
 - Initiated preparation of Remedial Design package for the Silo 3 Project
 - Continued Balance of Plant (BOP) Due Diligence evaluation and evaluation of alternatives for the AWR Project waste retrieval design
 - Erected the Radon Control System Exhaust Stack, and initiated Transfer Tank Area (TTA) Tank erection and other AWR project field activities

November 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Continued Silos 1 and 2 Conceptual Design activities, including development of process flow diagrams and general arrangements, development of support facility (storage and staging areas site preparation) designs, and development of container design
 - Continued Silo 3 conceptual design activities - development of treatment process and retrieval designs, and data development testing to finalize treatment formulation
 - Continued preparation of the revised Silo 3 Remedial Design package
 - Completed Due Diligence review of the Accelerated Waste Retrieval (AWR) project balance of plant design. Prepared design changes resulting from Due Diligence review of the Radon Control System (RCS) design

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT DECEMBER 1, 2001 THROUGH
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ACTION STATUS REPORT

- Continued AWR Project construction activities - erected the RCS exhaust stack, began erection of the Transfer Tank Area (TTA) tanks, and began interior modification of the RCS air handling building

December 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Continued Silos 1 and 2 conceptual design activities
 - Compiled Conceptual Design package for the Silo 3 Project, in preparation for formal Fluor Fernald and DOE review in January
 - Continued preparation of Silo 3 Remedial Design package
 - Prepared design changes resulting from Due Diligence reviews of the Radon Control System (RCS) and Accelerated Waste Retrieval (AWR) balance of plant designs
 - Continued AWR project construction activities, including continued erection of the Transfer Tank Area (TTA) tanks, and receipt of several auxiliary prefabricated tanks
 - Conducted status briefing on Silos project activities for the Agencies

January 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Issue Silo 3 Conceptual Design package for formal review by DOE and the Critical Analysis Team (CAT)
 - Continue Design Data Development Testing and Preliminary Design Package preparation for the Silos 1 and 2 Project
 - Prepare design changes resulting from Due Diligence review of the AWR project Balance of Plant Design
 - Continue AWR project construction activities; take delivery of two of the four RCS carbon beds, continue erection of TTA tanks, install enhanced foundations for RCS pipe rack

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT DECEMBER 1, 2001 THROUGH DECEMBER 31, 2001 AND QUARTERLY REPORT OCTOBER 1, 2001 THROUGH DECEMBER 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD JANUARY 1 THROUGH JANUARY 31, 2002, AND EFFLUENT AND RADON DATA AND REMOVAL ACTION STATUS REPORT

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

October 2001

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for September to the Ohio EPA on October 18, 2001
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Continued work on the technical memorandum to establish baseline groundwater conditions for OSDF Cells 1, 2, and 3

November 2001

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for October to the Ohio EPA on November 19, 2001
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Submitted the August 2001 Operating Report for the Re-Injection Demonstration on November 15, 2001 to DOE for transmittal to the Agencies on November 28, 2001
 - Submitted the September 2001 Operating Report for the Re-Injection Demonstration on November 15, 2001 to DOE for transmittal to the Agencies on November 19, 2001
 - Submitted a Project Specific Plan (PSP) for the installation of monitoring wells in the Pilot Plant Drainage Ditch Plume on November 19, 2001 for transmittal to the Agencies on November 19, 2001
 - Continued work on the technical memorandum to establish baseline groundwater conditions for OSDF Cells 1, 2, and 3.

December 2001

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for November to the Ohio EPA on December 19, 2001
 - Submitted the NPDES Noncompliance Report for November to the Ohio EPA on December 19, 2001

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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ACTION STATUS REPORT**

- Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Submitted the October 2001 operating Report for the Re-Injection Demonstration on December 5, 2001, to DOE for transmittal to the Agencies.
 - Received USEPA approval for the OU5 Explanation of Significant Difference (ESD). The ESD outlined changes to the OU5 Record of Decision (ROD) regarding groundwater final remediation level for uranium and monthly average uranium discharge standard to the Great Miami River
 - Continued work on the technical memorandum to establish baseline groundwater conditions for OSDF cells 1, 2, and 3
 - Install four multilevel monitoring wells in the Pilot plant Drainage Ditch Plume
 - Began work on a PSP for geoprobng in the off-property portion of the South Plume

January 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge monitoring Report to the OEPA
 - Meet the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells
 - Continue construction of Waste Storage Area Extraction System - Phase I and South Field Extraction System - Supplemental Well
 - Begin installing conventional monitoring wells in the pilot plant Drainage Ditch Plume
 - Begin design of South Field Extraction System - Phase II
 - Complete draft PSP for geoprobng in the off property South Plume Area and submit to Agencies for review
 - Complete work on draft Data Package for Baseline Groundwater conditions at the OSDF Cells 1, 2, and 3 and submit for Agency review
 - Begin work on a PSP for installing additional monitoring wells in the South Field

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
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WASTE MANAGEMENT

October 2001

- Enforceable Milestones Completed
 - None

- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Completed shipping of photo chemicals from Springdale
 - Began preparation for shipment of packaged free-released chemical
 - Contacted Safety-Kleen to schedule Medical shipment
 - Continue to segregate RAD contaminated chemicals and free-release and acceptable chemicals
 - Inorganic Treatment Project
 - Contracted performance Development Corporation (PDC) to support acceleration of the Inorganic Treatment Project
 - Began steps toward construction of Mixed Waste Processing Enclosure in Building 79 to process/package Inorganic Treatment Project Waste
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Bulked 88 containers of waste of Batch 12 inventory
 - Submitted application for Batch 11 to the TSCA Incinerator/State of Tennessee
 - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
 - Completed processing of 10 box of NPDS Thorium and completed RTR of 8 of the 10 boxes
 - Organic Treatment Project
 - Finalized shipment of First Article Test drums
 - Unpacked/repacked and/or overpacked 64 First Article Test Drums for shipment
 - Thorium Legacy Waste Project (TLWP)
 - Completed placing shield wall and storage Sealand containers in place on Plant 1 Pad
 - Moved 31 boxes Thorium into Plant 1 Pad shielded area
 - Waste Minimization/Pollution Prevention
 - Reviewed Sanitary Waste Disposal and Paper Recycling contract bids
 - Continued to revise Oil Recycling Request for Proposal (RFP)

November 2001

- Enforceable Milestones Completed
 - None

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- Work Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Received Waste Water Discharge Request (WWDR) approval for AWWT 1012 and 1016
 - Hazardous Waste Project
 - Shipped 22 labpacs and 5 non-bulk drums, 5 bulk boxes and 4 cylinders of packaged free-released chemicals to Heritage on November 8, 2001. Shipped 10 gallons of silver recovery cartridges and 20 gallons of x-ray negative film with Safety Kleen on November 14, 2001
 - Inorganic Treatment Project
 - Contracted PDC to support acceleration of the Inorganic Treatment Project
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Bulked waste from 132 containers of Batch 12 of which 118 were bulked to empty
 - Submitted Batch 11 application to the TSCA incinerator and State of Tennessee
 - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
 - Completed processing of 1 box of NPDS thorium for a total of 10 of 10
 - Completed RTR of 2 of 10 boxes for a total of 10 of 10
 - Completed first shipment of NPDS Thorium
 - Organic Treatment Project
 - Completed first shipment of First Article Test Drums to Materials and Energy Corporation (M&EC)
 - Reviewed containers assigned to Aerosol Can Puncturing for acceptability
 - Sample Disposition
 - Contracted Performance Development Corporation (PDC) to support acceleration of the Sample Disposition Project
 - Thorium Legacy Waste Project (TLWP)
 - Completed SSR for venting and decanting operations
 - Moved 15 boxes soil, 5-110 gallon drums, 8 metal boxes, and 1 metal box generated by overpacking drums and cans from Building 65 to Building 64
 - Moved 26 boxes and 6-110 drums from Building 64 to Plant 1 Pad
 - Waste Minimization/Pollution Prevention
 - Finalized Annual Report of Waste Generation and Pollution Prevention Progress

December 2001

- Enforceable Milestones Completed
 - None

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- Work Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Transferred waste from 35 containers (8,865 pounds) of AWWT Liquid inventory to the FEMP AWWT for treatment; all containers were empty after transfer
 - Hazardous Waste Project
 - Shipped two medical sludge canisters via Safety-Kleen
 - Initiated segregation of Legacy Chemicals to prepare for consolidation movement
 - Inorganic Treatment Project
 - Entered work order to construct a Mixed Waste processing Enclosure in Building 79 to process/package Inorganic Treatment Project waste
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Bulked waste from 90 containers (36,479 pounds) of Batch 12 inventory into Batch 12; 87 containers were bulked to empty
 - Submitted Batch 11 application to the TSCA Incinerator/State of Tennessee
 - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
 - Completed final NPDS shipment to complete project
 - Organic Treatment Project
 - Completed RTR of 51 drums from Group A campaign
 - Sample Disposition
 - Completed disposition of 51 containers to the uranium Waste Disposition Project
 - Thorium Legacy Waste Project (TLWP)
 - Completed venting of 18 boxes of Thorium flammable gas generating material
 - Completed segregation and movement of corrosive thorium waste to Plant 1 Pad
 - Completed movement of 31 boxes of Thorium to Plant 1 Pad
 - Performed walkdown of Building 71 Isotopic Room for use by Thorium Project for trash sorting
 - Submitted NTS Profile 117 to the DOE for transmittal to NTS
 - Waste Minimization/Pollution Prevention
 - Replaced previous contractor's dumpsters with new contractor's dumpsters
 - Reviewed placement of dumpsters and provided contractor with list of corrections to be made to dumpsters and/or locations

January 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

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- Work To Be Initiated/Continued/Completed
 - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
 - Continue activities for future staging/transfer wastewater treatment operations at Building 79
 - Hazardous Waste Project
 - Finalize legacy Chemical Work plan
 - Continue consolidation movement of Legacy Chemicals
 - Begin preparation for unused excess chemical shipment to heritage
 - Begin preparation for lead acid battery packaging and shipment
 - Inorganic Treatment Project
 - Continue construction of mixed Waste processing Enclosure.
 - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
 - Complete Batch 12 bulking activities
 - Await Batch 11 application approval by TSCA Incinerator/State of Tennessee
 - Complete consolidation tank modification at bulking area
 - Organic Treatment Project
 - Complete campaign development for current uncharacterized inventory
 - Sample Fire Training Facilities soil drums
 - Continue RTR of Group A containers
 - Sample Disposition
 - Complete Sample Disposition Work Plan
 - Thorium Legacy Waste Project (TLWP)
 - Continue movement of Thorium inventory from Building 64/65
 - Continue venting operations
 - Waste Minimization/Pollution Prevention
 - Monitor corrections and/or locations for the new dumpsters

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ENCLOSURES A & B

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

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ENCLOSURE 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.

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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

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REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
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
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

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