



## Department of Energy

Ohio Field Office  
Fernald Area Office

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APR 18 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-0434-02

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> 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 MARCH 1, 2002  
THROUGH MARCH 31, 2002, AND QUARTERLY REPORT JANUARY 1, 2002 THROUGH  
MARCH 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD APRIL 1  
THROUGH APRIL 30, 2002, AND 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 March 1, 2002 through March 31, 2002, and Quarterly Report for the period January 1, 2002 through March 31, 2002, including anticipated work for the period April 1 through April 30, 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.

APR 18 2002

Mr. James A. Saric  
Mr. Tom Schneider

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DOE-0434-02

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  
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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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REMOVAL ACTION STATUS REPORT**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from March 1, 2002 through March 31, 2002. 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

January 2002

- Enforceable Milestones Completed
  - None
  
- Major Work Initiated/Continued/Completed
  - Loaded 3,876.2 tons of material from waste pits

February 2002

- Enforceable Milestones Completed
  - None
  
- Major Work Initiated/Continued/Completed
  - Loaded 10,548.6 tons of material from waste pits
  - Shipped 120 railcars (UT52 and UT53) of material for disposal at Envirocare

March 2002

- Enforceable Milestones Completed
  - None
  
- Major Work Initiated/Continued/Completed
  - Loaded 12,913 tons of material from waste pits
  - Shipped 120 railcars (UT 54 and UT 55) of material for disposal at Envirocare

April 2002 (Anticipated)

- Enforceable Milestones Completed
  - None
  
- Major Work Initiated/Continued/Completed
  - Load 13,760 tons of material from waste pits
  - Ship 120 railcars (UT 56 and UT 57) of material for disposal at Envirocare

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**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)

January 2002

- 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 68,000 in-place cubic yards of impacted materials in the Cells in the 2001 construction season
    - Began Phase II Leachate Removal Project
    - Began removal of remaining Stockpile materials southeast of C-4
    - Continued to install conduit for the new technology cable
    - Continued Access Control Facility project
    - Continued Cell 1 Cap monitoring system installation
    - Began Test pits at Borrow Area
    - Completed Preliminary Survey for Emergency Access Road
    - Continued Cells 4 and 5 Horizontal Monitoring Wells Construction
  - Soil Characterization and Excavation Project (SCEP)
    - Continued developing Environmental Assessment for Future Public Use of the FEMP
    - Continued Certification Sampling for Area 2, Phase I
    - Continued predesign efforts in the Arsenic Hot Spot Area
    - Began Area 2, Phase II Title Design
    - Continued Area 3B/4B/4 Title I Design
    - Continued RCRA soil excavation and stockpile at Building 80
    - Completed all originally intended sampling in Area 9, Phase I on January 10, 2002
    - Continued to develop Final Natural Resource Restoration Plan
    - Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design

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- Began excavation of above WAC soil at Incinerator Pad (10D)
- Began wood chipping and excavation of Arsenic Hot Spot Area
- Began excavation of Area 2, Phase I - Perimeter Area (including Basin 2 and East/West portion of Haul Road)

February 2002

- 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
    - Completed Phase II Leachate Removal project
    - Completed removal of remaining stockpile materials southeast of C-4
    - Continued Access Control Facility Project
    - Completed Cell 1 Cap monitoring system installation
    - Completed preliminary survey for Emergency Access Road
    - Continued Cells 4 and 5 Horizontal Monitoring Wells construction
    - Continued Emergency Access Road construction
    - Began Access Control Relocation Operation Maintenance Transfer Area (OMTA) area
    - Installed Leachate Collection System (LCS) Redundant
    - Began installation of Soil/Water Status Nest PVC Housings
    - Completed installation of new technology sensors and began testing
    - Completed conduit installation and electrical for Cell 1 cap monitoring wells construction
    - Continued Construction Quality Control (CQC) services for Borrow Sub Areas Pre-Conformance Testing
  - Soil Characterization and Excavation Project (SCEP)
    - Issued revised Natural Resource Restoration Plan to Natural Resource Trustees (NRTs)
    - Released Public Use Master Plan for public review and conduction meeting on February 28, 2002
    - Continued Area 2, Phase II Title I Design
    - Continued Area 3B/4B/5 Title I Design

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- Continued developing Final Natural Resource Restoration Plan
- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design
- Began excavation of above WAC soil at Incinerator Pad (10D)
- Completed wood chipping and excavation of Arsenic Hot Spot Area
- Continued sampling of the Pit 4 Cap material in Waste Pits Area
- Continued Concrete Breaking/Crushing in Area 3A
- Completed cutting, and most of the chipping, in the Northern Pines area
- Continued scanning of Area 2, Phase I
- Completed sampling of points AH, AI, and AJ in Area 2, Phase II on February 4, 2002
- Completed Maintenance Building RCRA excavation
- Continued certification sampling in Area 2, Phase I
- Began second round of sampling in Area 9, Phase I

March 2002

- 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
    - Installed antenna and cables at AWWT
    - Began site preparation work for Liners 4 and 5
    - Continued Emergency Access Road Construction
    - Continued Access Control Relocation OMTA Area
    - Began construction of Valve house 6 road
    - Began installation of Soil/Water Status Nest PVC housings
    - Completed T-139 Break Trailer setup
    - Began removal of North Access Road
  - Soil Characterization and Excavation Project (SCEP)
    - Issued Revised National Resource Restoration Plan to NRTs
    - Initiated Reference Site Ecological Monitoring Task with the University of Dayton
    - Mobilized HPGe for Area 2, Phase II

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- Continued Area 2, Phase II Title I Design
- Continued Area 3B/4B/5 Title I Design
- Continued developing Final Natural Resource Restoration Plan
- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title I Design
- Began excavation of above WAC soil at Incinerator Pad (10D)
- Continued Direct Push Aquifer sampling
- Continued sampling of the Pit 4 Cap material in Waste Pits Area
- Continued Concrete Breaking/Crushing in Area 3A
- Continue scanning of Area 2, Phase 1
- Continued certification sampling in Area 2, Phase I
- Completed second round of sampling Area 9, Phase I
- Completed and submitted Restoration Design for Southern Waste Units to NRTs
- Began Real Time Sampling in Area 2, Phase II, east of Haul Road in Quadrants 1 and 4W
- Began additional Pre-design sampling Area 7
- Began Plant 6 Sump Work
- Completed Wood Cutting and Chipping in Northern Pines and hauled wood chips to Southern Waste Units
- Began site preparation for excavation of Areas 3A and 4A
- Completed all sample analysis for Area 9, Phase I Certification

April 2002 (Anticipated)

- 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
    - Complete CQC Services for Borrow Sub Areas Pre-Conformance Testing
    - Begin site preparation on Borrow Area
    - Complete construction of Valve House 6 Road
    - Complete Access Control Facility Project
    - Complete Cell 1 Cap
    - Complete conduit installation and electrical work for Cell 1 Cap Monitoring Instrumentation

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- Complete Emergency Access Road construction
- Complete Access Control Relocation OMTA Area
- Begin construction of Construction Laydown Area
- Begin and complete construction of LCS, LDS, AND LDSR Cell 5 Extensions
- Begin OSDF Placement
- Begin receiving stone and geosynetics for Liner 4 and 5
  
- Soil Characterization and Excavation Project (SCEP)
  - 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
  - Begin Area 6 (Solid Waste Landfill and Fire Training Facility) Title I and Title II Design
  - Complete Incinerator Pad (10D) above WAC excavation
  - Complete certification sampling of Area 2, Phase I
  - Complete Restoration Design for Southern Waste Units, Phase I and issue to NRTs
  - Complete excavation of Area 2, Phase I Perimeter Area (including Basin 2 and East/West Haul Road)
  - Complete excavation of Area 2, Phase II Arsenic Hot Spot Area
  - Continue site preparation for excavation of Area 3A and 4A
  - Begin excavation of southeast corner of Plant 9 Above WAC Area
  - Continue breaking concrete in Area 3A
  - Continue Plant 6 Sump work
  - Continue Area 7 precertification sampling in the footprint of the planned Treatment Facility and Warehouse
  - Begin Area 4B Potentially Characteristic Areas west of the Pilot Plant sampling
  - Submit Response to Comments on Areas 3B/4B/5 Above WAC PSP
  - Begin modification to the Wheel Wash
  - Initiate restoration work in the Southern Waste Units
  - Complete planting in the Radium Hot Spot
  - Complete Arsenic Area excavation
  - Begin breaking concrete in Area 4A
  - Submit Phase II Certification Report for Area 2, Phase II
  - Submit second round of Response to Comments for Area 3A/4A Excavation Characterization PSP

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**OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT**

January 2002

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Plant 6
    - Continued to size reduce debris and place in roll-off boxes for disposition
  - Multi-Complex
    - Completed structural demolition in Building 8H and 8B
    - Established building enclosure and vestibule, glovebag removal, prepare asbestos containment in Building 2A
    - Established wastewater tanks, asbestos glovebag removal, control room VAT removal and interior transite removal in Building 8A
    - Prepared for system purging, and interior transite panel removal in Component 2D
    - Size reduced and loaded material in Component 2F
    - Sheared tanks, equipment and structural steel in Component 3D
  - Facilities Shutdown
    - Continued furniture/equipment breakdown and removal in Building 53A
    - Began utility disconnects in Building 53A

February 2002

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Plant 6
    - Continued to size reduce debris and place in roll-off boxes for disposition
  - Multi-Complex
    - Continued to size reduce debris and place in roll-off boxes for disposition in Building 8H
    - Established building enclosures, wastewater tanks, asbestos glovebag removal, interior transite removal in Building 8A
    - Began gross washdown, glovebag removal, erect scaffolding, remove asbestos, purge equipment & systems, removal of equipment and piping, interior transite removal in Building 2A
    - Suspended work on Building 2B

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- Removed metal siding/roof and structural steel, sheared, sized and loaded in area of Building 8C
- Installed wastewater collection system and prepared for system purging in Building 8G
- Facilities Shutdown
  - Continued utility disconnects in Building 53A
  - Worked on sump cake removal from Tank F3E-7
  - Began removal of mercury in Building 2B Control Room

**March 2002**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Plant 6
    - Completed field work
    - Ongoing preparation of Closure documentation and demobilization
  - Multi-Complex
    - Continued gross washdown, glovebag removal, erect scaffolding, remove asbestos, purge equipment & systems, removal of equipment and piping, interior transite removal in Building 2A
    - Continued to size reduce debris and place in roll-off boxes for disposition in Building 8H
    - Established construction area, gravel, air gap pipe bridge east side and asbestos abatement in Staging Laydown Area
  - Facilities Shutdown
    - Continued miscellaneous Pilot Plant Facility activities

**April 2002 (Anticipated)**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Plant 6
    - Continue Closure documentation and demobilization
  - Multi-Complex
    - Continue building closure, glovebag removal, remove asbestos, purge equipment & systems, removal of equipment and piping, lead removal, interior transite removal in Building 2A

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- Continue asbestos abatement and equipment/system removal in Building 8H
- Establish construction area, gravel, air gap pipe bridge east side and asbestos abatement in Staging Laydown Area
- Begin asbestos removal, removal of equipment/systems, remove miscellaneous walls and interior transite in Building 8A
- Begin to shear, size and load structural steel/concrete in Building 8C
- Facilities Shutdown
  - Continue miscellaneous Pilot Plant Facility activities

**OPERABLE UNIT 4 - SILOS PROJECT**

January 2002

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Issued Silo 3 Conceptual Design package for formal review by DOE and the Critical Analysis Team (CAT)
  - Continued Design Data Development testing and Preliminary Design Package preparation for the Silo 1 and 2 Project
  - Continued design activities to implement changes identified by Due Diligence review of the AWR design
  - Continued AWR project construction activities: took delivery of two of the four RCS carbon beds, continued erection of Transfer Tank Area (TTA) tanks; began installation of foundations for utility pipe rack

February 2002

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Presented Silos Projects Status Briefing for the Agencies
  - Received comments from formal DOE and Critical Analysis Team (CAT) review of the Silo 3 Conceptual Design Package; continued development of the Remedial Design package
  - Continued Design Data Development testing and Preliminary Design Package preparation for the Silos 1 and 2 Project
  - Continued design activities to implement changes identified by Due Diligence review of the Accelerated Waste Retrieval (AWR) design

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- Continued AWR project construction activities; installed improved foundation for Radon Control System (RCS) Carbon Beds; continued erection of Transfer Tank Area (TTA) Tanks

**March 2002**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Responded to comments from formal DOE and Critical Analysis Team (CAT) review of the Silo 3 Conceptual Design Package
  - Prepared Silos 1 and 2 Preliminary Design Package
  - Compiled draft revised Silo 3 RD Package
  - Continued Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project Construction Activities including erection of Transfer Tank Area (TTA) Tanks; installation of pipe rack foundations; and installation of carbon beds

**April 2002 (Anticipated)**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Continued/Completed
  - Submit the preliminary Design Package for the Silos 1 and 2 Project for formal DOE and CAT review (Submitted April 4, 2002)
  - Initiate preparation of the revised RD Package for the AWR Project
  - Continue AWR Project construction activities, including structural steel for the RCS facility and erection of TTA tanks

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

**January 2002**

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for December 2001 to the Ohio EPA on January 16, 2002
  - Submitted the NPDES Noncompliance Report for December 2001 to the Ohio EPA on January 17, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

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- Work Initiated/Continued/Completed
  - Submitted the November 2001 Operating Report for the Re-Injection Demonstration on January 24, 2002 to DOE for transmittal to the Agencies
  - Submitted the Draft Data Package for Baseline groundwater Conditions at the On-Site Disposal Facility Cells 1, 2, and 3 to DOE for transmittal to the Agencies on January 15, 2002; DOE submitted to the Agencies on January 16, 2002
  - Submitted the Project Specific Plan (PSP) for Conducting Direct-Push Sampling in the South Plume to DOE for transmittal to the Agencies on January 10, 2002; DOE submitted to the Agencies on January 14, 2002
  - Began work on PSP for geoprobing in the off-property portion of the South Plume
  - Installed five conventional monitoring wells in the Pilot Plant Drainage Ditch Plume. Continued to develop the multilevel wells installed in this area during December
  - Began design of South Field Extraction System - Phase II
  - Began work on a PSP for installing additional injection wells along the southern property boundary to replace Injection Wells 8 and 9
  - Began work on a PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer

February 2002

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for January to the Ohio EPA on February 19, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Submitted the December 2001 Operating Report for the Re-Injection Demonstration on February 26, 2002 to DOE for transmittal to the Agencies
  - Began work on geoprobing in the off-property portion of the South Plume
  - Began design of South Field Extraction System - Phase II
  - Began work on a PSP for installing additional injection wells along the southern property boundary to replace Injection Wells 8 and 9
  - Began work on a PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer

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March 2002

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for January to the Ohio EPA on March 19, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
  
- Work Initiated/Continued/Completed
  - Submitted the January 2002 Operating Report for the Re-Injection Demonstration to DOE-FEMP on March 12, 2002 for transmittal to the Agencies; submitted on March 22, 2002
  - Submitted the Responses to Ohio EPA comments on the Project Specific Plan (PSP) for Conducting Direct-Push Sampling in the South Plumes to DOE-FEMP on March 6, 2002 for transmittal to the Agencies
  - Began work on geoprobing in the off-property portion of the South Plume; six locations were completed
  - Began design of three replacement injection wells
  - Submitted a PSP for installing additional injection wells along the southern property boundary to replace Injection Wells 8 and 9
  - Continued work on PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer

April 2002 (Anticipated)

- Enforceable Milestones Completed
  - Submit Monthly NPDES Discharge Monitoring Report to the Ohio EPA
  - Meet the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
  
- Work Be Initiated/Continued/Completed
  - Submit the Operating Report for the Re-Injection
  - Continue to perform maintenance/rehabilitation on injection and extraction wells
  - Complete construction of Waste Storage Area Extraction System - Phase I and South Field Extraction System - Supplemental Well
  - Continue work on the designs for South Field Extraction System Phase II and the three replacement injection wells
  - Submit the PSP to investigate uranium partitioning on the sediments in the Great Miami Aquifer to DOE-FEMP and the Agencies
  - Begin work on a PSP to install additional monitoring in the South Field

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WASTE MANAGEMENT

January 2002

- Enforceable Milestones Completed
  - None
  
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - No AWWT Liquid Waste was transferred to the AWWT during this time
  - Hazardous Waste Project
    - Completed Photochemical shipment of 1 drum to Safety-Kleen on January 24, 2002
    - Continued segregation of Legacy Chemicals
    - Finalized Legacy Chemical Work Plan
    - Dispositioned chemicals remaining in contamination area
    - Bulked last two baskets of TSCA chemicals
  - Inorganic Treatment Project
    - Began process of constructing Mixed Waste processing Enclosure in Building 79 for process/package of inorganic Treatment Project waste
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Completed Phase II, Batch 12 Sampling on January 22, 2002
    - Shipped Batch 12 samples to off-site labs for sample analysis
  - Organic Treatment Project
    - Received notification of First Article test initial processing to begin February 8, 2002
  - Sample Disposition
    - Transferred 10 SAMP 1001 containers to uranium Waste Disposition (UWD) Project
  - Thorium Legacy Waste Project (TLWP)
    - Completed venting of 17 boxes and 8 drums of Thorium flammable gas generating material for a total of 35 boxes and 8 drums
    - Moved thorium inventory from Building 65 to Building 64
    - Continued to develop plans for Building 71 Isotopic Room for use by Thorium project for Trash Sorting
  - Waste Minimization/Pollution Prevention
    - Continued monitoring of new dumpsters and locations

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February 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Readied waste for AWWT treatment
  - Hazardous Waste Project
    - Shipped two Rumpke 30 cubic yard dumpsters for disposal of free-released chemicals
    - Received inventory from the Laboratory to prepare for the March Heritage shipment
  - Inorganic Treatment Project
    - Continued construction of Mixed Waste Processing Enclosure in Building 79
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Continued to wait for application approval by TSCA Incinerator/State of Tennessee for Batch 11
  - Organic Treatment Project
    - Completed RTR activities from Group A containers
  - Waste Minimization/Pollution Prevention
    - Continued to monitor new dumpsters and locations
    - Began evaluation of new paper recycling container to allow more efficient management and identification

March 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Readied waste for AWWT treatment
  - Hazardous Waste Project
    - Delivered fluorescent lap supplies to health & Safety Building for D&D
    - Continued preparation for shipment to Heritage in April
    - Continued to finalize Legacy Chemical Work Plan
  - Inorganic Treatment Project
    - Continued construction of Mixed Waste processing Enclosure in Building 79 for process/packaging waste
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Received Batch 11 aqueous phase (1 shipment) application approval from TSCA Incinerator/State of Tennessee; shipped on March 21, 2002

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- Received Batch 11 oily phase (1 shipment) application approval from TSCA Incinerator/State of Tennessee
- Developing Batch 12 application for approval by TSCA Incinerator/State of Tennessee
- Organic Treatment Project
  - Continued characterization of Group B campaigns
- Waste Minimization/Pollution Prevention
  - Continued monitoring of new dumpsters and locations
  - Began to prepare Semi-Annual Report

April 2002 (Anticipated)

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Relocate to Building 79
    - Complete activities for future staging/transfer wastewater treatment operations at Building 79
  - Hazardous Waste Project
    - Complete walkdown of garage to identify possible lab pack eligible containers
    - Schedule Safety-Kleen for photochemical shipment during April
    - Schedule heritage for unused excess chemicals packaging
    - Move chemicals from Building 79 to Building 30/45 Interim Layout Area (ILA) for inclusion in Heritage shipment
  - Inorganic Treatment Project
    - Complete construction of mixed Waste Processing Enclosure
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Complete Batch 12 application for approval by TSCA Incinerator/State of Tennessee
    - Reschedule shipment of Batch 11 oily phase for April
    - Complete consolidation tank modification at bulking area
  - Organic Treatment Project
    - Complete campaign development for current uncharacterized inventory
    - Evaluate reuse of type 301 containers (CPC box) for use as alternative for overtakes drums
    - Continue RTR of Group B containers
  - Sample Disposition
    - Develop additional Sample Disposition campaigns
    - Continue to review Sample Disposition inventories for accelerated disposition

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- Waste Minimization/Pollution Prevention
  - Complete Semi-Annual Report

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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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REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
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	Plug and Close, well plugged
South Field and Inactive Flyash Piles Seepage Control Project	31	Closed	December 6, 1995	Minimize future groundwater contamination by intercepting contaminated seeps that drain from the South Field and Inactive Flyash Pile and infiltrate to the GMA

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