



Department of Energy

**Ohio Field Office
Fernald Area Office**

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



3302

OCT 17 2000

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-0049-01

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF SEPTEMBER 1,
2000, THROUGH SEPTEMBER 30, 2000, AND QUARTERLY REPORT FOR JULY 1, 2000,
THROUGH SEPTEMBER 30, 2000, INCLUDING REMOVAL ACTION STATUS REPORT**

This letter transmits the amended Consent Agreement Monthly Report for the period of September 1, 2000, through September 30, 2000, and Quarterly Report for the period of July 1, 2000, through September 30, 2000. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA).

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

Sincerely,

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Reising

Enclosures

OCT 17 2000

-2-

Mr. James A. Saric
Mr. Tom Schneider

cc w/enclosures:

N. Hallein, EM-31, CLOV
G. Jablonowski, USEPA-V, SRF-5J
D. Sarno, FCAB
V. Dastillung, FRESH
P. Dunn, FRESH
F. Hodge, Tetra Tech
T. Hagen, Fluor Fernald, Inc./65-2
M. Jewett, Fluor Fernald, Inc./52-2
T. Walsh, Fluor Fernald, Inc./65-2
AR Coordinator, Fluor Fernald, Inc./78

cc w/o enclosures:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
D. Carr, Fluor Fernald, Inc./2
J. Harmon, Fluor Fernald, Inc./90
S. Hinnefeld, Fluor Fernald, Inc./31
B. Irvine, Fluor Fernald, Inc./65-2
ECDC, Fluor Fernald, Inc./52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH
SEPTEMBER 30, 2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER
30, 2000 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL
ACTION STATUS REPORT**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from July 1, 2000 through September 30, 2000. 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
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

July 2000

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Processed 9,465 tons of material from waste pits for a cumulative total of 159,873 tons
 - Shipped 60 railcars (6,452 tons) of material for disposal at Envirocare for a cumulative total of 154,064 tons

August 2000

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Processed 11,939 tons of material from waste pits
 - Shipped 120 railcars (12,908 tons) of material for disposal at Envirocare

September 2000

- Enforceable Milestones Completed
 - None

- Major Work Initiated/Continued/Completed
 - Processed 2,150 tons of material from waste pits
 - Shipped 65 railcars (6,991 tons) of material for disposal at Envirocare

October 2000 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None

- Major Work To Be Initiated/Continued/Completed
 - Process 6,746 tons of material from waste pits
 - Ship 60 railcars (6,746 tons) of material for disposal at Envirocare

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
 AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
 STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
 2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
 EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY

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

July 2000

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Began construction of On Site Disposal Facility Material Transfer Area bulk debris staging area
 - Continued placement of impacted material in Cells 2, and 3 and placement of 3 feet of select material in Cell 1
 - Continued preformance testing and screening for Cell 1 clay cap material
- Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Completed excavation of 0.4 acre area of Trap Range; certification samples taken after excavation
 - Received OEPA approval of Certified Design Letter on July 6, 2000
 - Area 2, Phase I
 - Completed excavation and hauling of asbestos contaminated soil in South Field and Stockpile 3
 - Completed excavating Non-impacted Stockpile 2 footprint and liner removal
 - Other Areas/Programs
 - Transmitted Final Waste Acceptance Criteria Attainment Report for 1998 through 2000 Summary (Area 7 Soils [Silos Project Area]) to DOE on July 25, 2000
 - Transmitted Project Specific plan for Supplemental Background Soil Study (A9,PI) to DOE on July 24, 2000
 - Submitted Final Traffic Impact Study of the North Entrance Road and Proposed Path Forward to DOE on July 3, 2000

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
 AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
 STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
 2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
 EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

August 2000

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - Draft Area 9, Phase II Certification Design letter (CDL)
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Began the Construction Laydown Area and Access Road project
 - Continued placement of impacted material in Cells 2 and 3 and placement of 3 feet of select material in Cell 1
 - Conducted Pre-Bid Conference on August 1, 2000 for the OSDF Phase III Construction of Cell 1 Final Cover System and received bids on August 24, 2000
 - Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase III
 - Transmitted Final Certification Design Letter and Project Specific Plan Part II to DOE on August 23, 2000
 - Area 2, Phase I
 - Continued excavation of Impacted material
 - Received OEPA approval of the Active Flyash Pile Certification Design Letter and Project Specific Plan (PSP) on August 9, 2000
 - Area 2, Phase II
 - Completed physical sampling and began geophysical surveying for predesign
 - Received OEPA conditional approval (August 7, 2000) and USEPA approval (August 10, 2000) on the Draft Carolina Area Integrated Remedial Design Package
 - Area 2, Phase III
 - Submitted Certification Report, Part Two, Revision B to DOE on August 3, 2000
 - Area 3A/4A
 - Submitted draft Waste Acceptance Criteria Attainment Report for Western Section of Stockpile 1 to DOE on August 14, 2000; Eastern Section of Stockpile 1 is currently accepting waste
 - Received OEPA approval of Revised PSP for Sampling Area 3A Miscellaneous Stockpile for OSDF Waste Acceptance Criteria Attainment on August 8, 2000

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

Other Areas/Programs

- Transmitted Ecological Restoration Research Plan, regarding Area 8, Phase II, to DOE on August 1, 2000
- Received Agency approval of Area 9 Phase I Project Specific Plan for Supplemental Background Soil Study on August 16, 2000
- Transmitted draft Project Specific Plan for Paddy's Run and Adjacent Area Real-Time Scan to DOE on August 25, 2000
- Conducted debris pickup within Paddy's Run on August 23, 2000

September 2000

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continued construction of the Laydown Area and Access Road Project and the Material Transfer Area Expansion for bulk debris storage
 - Continued placement of impacted material in Cells 2, and 3
 - Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase III
 - Received USEPA approval of Final Certification Design Letter for Part Two on September 1, 2000, and OEPA approval on September 11, 2000
 - Area 2, Phase I
 - Transmitted Project Specific Plan for Certification Sampling of the Active Flyash Pile Footprint and Adjacent Area East of the South Construction Road to DOE on September 25, 2000
 - Continued excavation of Impacted Material
 - Began excavation of the Carolina Area
 - Began removal of Basin 3 - Surface water runoff from the former Active Flyash Pile footprint no longer requires treatment at AWWT
 - Began construction of Basin 4 which will capture runoff from the Wheel Wash Facility and allow removal of Basin 1
 - Area 2, Phase II
 - Continued predesign activities

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Area 8 Phase III
 - Received OEPA approval of Certification Report on September 7, 2000, and USEPA approval on September 22, 2000
- Real Time Working Group
 - Conducted Real Time Working Group Meeting on September 21, 2000, to discuss Calibration Pad Study and other topics

October 2000 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Complete construction of Laydown Area, Access Road Project and Material Transfer Area expansion for bulk debris storage
 - Complete screening clay in the East Field Borrow Area for future construction of the Cell #1 cap
 - Operate Material Transfer Area expansion
 - Begin/complete winter shutdown of OSDF
 - Soil Characterization and Excavation Project (SCEP)
 - Area 2 Phase I
 - Continue excavation in the Carolina Area
 - Area 3A/4A
 - Issue Certified For Construction Package to DOE on October 31, 2000
 - Area 8 Phase II
 - Begin fall planting to complete restoration on October 31, 2000

OPERABLE UNIT 3

July 2000

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Continued asbestos abatement, interior transite removal and equipment removal in Plant 5 Complex
 - Continued D&D activities in the Plant 6 area
 - Continued utility relocation and internal demolition in Buildings 28A and 28B
 - Completed project activities and demobilized in area of NFS tanks
 - Continued D&D planning activities in Multi-Complex Project area

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

August 2000

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Continued building release cleaning - Asbestos- Containing Material (ACM) abatement and equipment removal in the areas of Plant 5 and Plant 6
 - Continued interior demolition, ACM floor tile removal in Buildings 28A and B
 - Directed D&D planning activities and supported field activities

September 2000

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Continued building release cleaning, encapsulated exterior transite in the Plant 5 area
 - Continued interior demolition in Plant 6 area
 - Continued demolition and debris removal in Buildings 28A and 28B
 - Directed D&D planning activities and supported field activities

October 2000 (Anticipated)

- Enforceable Milestones Expected to be Completed
 - None

- Major Work to be Initiated/Continued/Completed
 - Continue building release cleaning - Asbestos- Containing Material (ACM) abatement and equipment removal in the areas of Plant 5 and Plant 6
 - Continue to load debris, demobilize, begin restoration in area of Buildings 28A and 28B
 - Direct D&D planning activities and support field activities

OPERABLE UNIT 4

July 2000

- Enforceable Milestones
 - None

- Major Work Initiated/Continued/Completed
 - Received USEPA approval of the Record of Decision (ROD) Amendment for Silos 1 and 2 on July 13, 2000
 - Initiated site preparation construction activities for the Silo 3 Project

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
 AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
 STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
 2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
 EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Received comments on the Silo 3 Project Remedial Design package from the Agencies
- Continued site preparation construction activities for the Accelerated Waste Retrieval (AWR) Project; continued grading and earthwork activities and poured the foundation for the Transfer Tank Area (TTA) Building

August 2000

- Enforceable Milestones
 - None
- Major Work Initiated/Continued/Completed
 - Responded to USEPA and OEPA comments on the Remedial Design Package for the Silo 3 Project.
 - Received comments on the Silos 1 and 2 Accelerated Waste Retrieval Project Remedial Design Package from the Agencies
 - Continued Site Preparation construction activities for the Silos 1 and 2 AWR Project
 - Completed installation of foundations for the Transfer Tank Area (TTA), Radon Control System (RCS) and Air Handling Buildings, and the exhaust stack and equipment area pads. Initiate preparation of the TTA Tank foundations
 - Continued Site Preparation construction activities for the Silo 3 Project. Installed the Gantry foundations and continued preparation and grading of the Interim Storage Area
 - Conducted a Silos Projects status briefing/ issue discussion meeting with OEPA and USEPA on August 15, 2000

September 2000

- Enforceable Milestones
 - Submitted the Draft Remedial Design Work Plan for the Silos 1 and 2 Remedial Action to USEPA for review and approval on September 6, 2000, meeting the due date of September 11, 2000
- Major Work Initiated/Continued/Completed
 - Received approval from OEPA on September 13, 2000 and USEPA on September 27, 2000 of the Remedial Design Work Plan for the Silos 1 and 2 Remedial Action
 - Developed draft responses to the Agencies comments on the RD package for the Silos 1 and 2 Accelerated Waste Retrieval (AWR) project; provided a draft Response to Comments document to the Agencies for informal review
 - Continued installation of the TTA tank foundations and other AWR Project site preparation construction activities
 - Conducted Fluor Fernald review of the final design reports for the Radon Control System and AWR Balance of Plant
 - Continued site preparation construction activities for the Silo 3 Project - storm sewer installation, grading, and form work for the ISA Pad; completed isA Pad concrete pour and installed forms for pre-loading of the Gantry Foundations

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
 AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
 STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
 2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
 EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Met with the Agencies to discuss comments on the revised Transportation and Disposal Plan included in the revised draft Silo 3 Remedial Design package submitted on August 23, 2000. Provided proposed responses to Agency comments
- Received conditional approval of the Silo 3 Remedial Design Package from USEPA on September 27, 2000

October 2000 (Anticipated)

- Enforceable Milestones
None
- Major Work Initiated/Continued/Completed
 - Present Topic-of-the-Month status briefing on Silos Projects activities at the October 10, 2000 Cleanup Progress Briefing
 - Meet with the Agencies to discuss proposed responses to comments on the draft AWR Project Remedial Design Package; submit revised RD Package to the Agencies for review and approval
 - Submit responses to USEPA conditional approval comments on the Silo 3 project Remedial Design Package; receive approval from OEPA
 - Complete installation of the TTA Tank Foundations and other AWR project site preparation construction activities
 - Continue site preparation construction activities for the Silo 3 Project - initiate pre-loading of the gantry foundations

OPERABLE UNIT 5

July 2000

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on July 20, 2000
 - 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
 - Completed the Hydropure Panel Replacement Project at AWWT Control Room on July 12, 2000

August 2000

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on August 17, 2000
 - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Work Initiated/Continued/Completed
 - Submitted the May 2000 Operation Report for the Re-Injection Demonstration on August 10, 2000 to DOE for transmittal to the Agencies. DOE transmitted to the Agencies on August 17, 2000
 - Submitted responses to OEPA comments on the Project Specific plan for Pumping Test, Pilot plant Drainage Ditch Area (August 2000) on August 28, 2000 to DOE for transmittal to the Agencies
 - Initiated Waste Storage Area Aquifer Well Pumping Test Project; as of August 28, 2000, Rotosonic drilling of seven observation wells and core drilling of control well was complete
 - Initiated southern portion of ARASA Basin Reroute Project; final approval was given by DOE and task order number assigned August 24, 2000. Orders for materials and equipment were placed on August 29, 2000

September 2000

- Enforceable Milestones
 - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on September 19, 2000
 - 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 June 2000 Operation Report for the Re-Injection Demonstration on September 6, 2000 to DOE for transmittal to the Agencies. DOE transmitted to the Agencies on September 14, 2000
 - Submitted request to use a more aggressive re-injection well treatment procedure on September 20, 2000 to DOE for transmittal to the Agencies
 - Submitted request to modify the Operations and Maintenance Master Plan (OMMP) for the Aquifer Restoration and Wastewater project (ARWWP) by removing the re-injection rate requirements from the OMMP that govern the operation of South plume Extraction Wells 6 and 7 on September 20, 2000 to DOE for transmittal to the Agencies. DOE submitted to the Agencies on September 25, 2000
 - Submitted groundwater section of Integrated Environmental Status Report for Second Quarter 2000 to Agencies

October 2000 (Anticipated)

- Enforceable Milestones
 - 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

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Work Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells

WASTE MANAGEMENT

July 2000

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Completed shipment of photochemicals from Springdale on July 26, 2000
 - Liquid Mixed Waste (Bulking) Project
 - Received, from TSCA Incinerator, and accepted additional tanker trailer inspection information. The State of Tennessee approved the ten day notice and proposed shipping schedule to resume shipping of Batch 9 on July 28, 2000
 - Mixed Waste Shipping
 - Continued DOT container review of radiological characterization information pertaining to 143 containers of below-LDR MW for shipment to Envirocare
 - Neutralization/precipitation/Deactivation/Stabilization Project (NPDS)
 - Initiated task orders to repackage NPDS thorium
 - Organic Treatment Project
 - Continued to review Fire Training Facility inventory for possible disposal at the OSDF
 - Thorium Legacy Waste Project (TLWP)
 - Received approval and distributed the Thorium Waste management Plan
 - Finalized the white paper "Stabilized Storage Conditions for uranium and Thorium"
 - Released one shipment of thoria gel to Nevada Test Site (NTS)
 - Moved 10 containers, including potential pyrophoric material, from Building 64 to Building 65
 - Moved 13 boxes of recharacterized thoria gel from Quonset hut to Building 64/65
 - Waste Minimization/Pollution Prevention
 - Awaiting release of the "Used Oil Recycling" RFP

August 2000

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Packaged lab chemicals and fluorescent lamps for shipment to recycler

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Liquid Mixed Waste (Bulking) Project
 - Shipped 3 shipments to TSCA Incinerator
 - Bulked a total of 238 containers into Batch 10
 - Completed rinsing of Batch 7 consolidation tank
- Mixed Waste Shipping
 - Completed sampling of five drums and shipped to Envirocare on August 17, 2000
- Neutralization/precipitation/Deactivation/Stabilization Project (NPDS)
 - Repackaging of NPDS thorium is in progress
- Organic Treatment Project
 - Reviewing Fire Training Facility inventory for possible disposal at the OSDF
- Thorium Legacy Waste Project (TLWP)
 - Preparing for startup of shipping activities for Thorium Residues
- Waste Minimization/Pollution Prevention
 - Revising oil recycling RFP
 - Shipped two roll-offs of tires for off-site recycling

September 2000

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Shipped 14 drums of lab chemicals on September 19, 2000 and shipped 8 skids and 16 boxes of fluorescent lamps and bulbs to Recyclights on September 13, 2000
 - Liquid Mixed Waste (Bulking) Project
 - Completed Batch 9 shipment to TSCA Incinerator
 - Bulked a total of 359 containers into Batch 10
 - Mixed Waste Shipping
 - Installed memory buttons on 48 drums, downloaded files to memory buttons on 45 drums
 - Shipped three trailers to Envirocare, validation of memory buttons performed at Envirocare
 - Neutralization/precipitation/Deactivation/Stabilization Project (NPDS)
 - Continued repackaging of NPDS thorium
 - Assisting Waste Characterization in resolving uncharacterized treated inventory
 - Organic Treatment Project
 - Continue to review Fire Training Facility inventory for possible disposal at the OSDF
 - Thorium Legacy Waste Project (TLWP)
 - Initiated Standard Startup Review for movement of hydrogen generating material in support of shipment of thorium shipments
 - Completed five shipments for a total of five boxes of thorium to NTS
 - Completed Management Assessment and Issued Final Report for the Management Assessment for Shipping Thorium Residues

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1, 2000 THROUGH SEPTEMBER 30,
2000 AND QUARTERLY REPORT JULY 1, 2000 THROUGH SEPTEMBER 30, 2000 INCLUDING
EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

- Waste Minimization/Pollution Prevention
 - Revising oil recycling RFP
- Wastewater Treatment Project
 - Continue AWWT waste treatment

October 2000 (Anticipated)

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Complete SC&PCRDs for electrical waste
 - Liquid Mixed Waste (Bulking) Project
 - Complete bulking of Batch 10 as volume permits with TSCA
 - Continue development of task order to remove northern consolidation tank from bulking area
 - Initiate planning for bulking of Batch 11 waste into southern consolidation tank
 - Organic Treatment Project
 - Finalize outstanding MEF issues for First Article testing
 - Finalize absorbent determinations
 - Initiate sampling and analysis request and task order for Fire Training Facility soils
 - Thorium Legacy Waste Project (TLWP)
 - Begin development of expression of interest for thorium treatment
 - Complete SSR for movement of hydrogen generating material
 - Continue RTR, loading and shipping of thorium residues
 - Waste Minimization/Pollution Prevention
 - Complete revision of oil recycling RFP
 - Begin preparation for Annual Report
 - Wastewater Treatment Project
 - Continue AWWT waste treatment

ATTACHMENT A

EFFLUENT RADIATION REPORTS

ATTACHMENT B

RADON REPORTS

ATTACHMENT C

REMOVAL ACTION STATUS REPORT

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

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

3802

| REMOVAL ACTION NAME | # | STATUS | CLOSURE DATE | SCOPE |
|---|----|--|-------------------|--|
| 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 |
| 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 |

20

3302