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Department of Energy

**Ohio Field Office
Fernald Area Office**

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JUL 17 1997

DOE-1201-97

**Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

**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 JUNE 1, 1997,
THROUGH JUNE 30, 1997, AND QUARTERLY REPORT FOR THE PERIOD OF APRIL 1,
1997, THROUGH JUNE 30, 1997, INCLUDING EFFLUENT RADIATION REPORTS, RADON
REPORTS, AND REMOVAL ACTION STATUS REPORT**

This letter transmits the amended Consent Agreement Monthly Report for the period of June 1, 1997, through June 30, 1997, and Quarterly Report for the period of April 1, 1997, through June 30, 1997. The monthly 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 or your staff have any questions, please contact me at (513) 648-3139.

Sincerely,

**Johnny W. Reising
Fernald Remedial Action
Project Manager**

Enclosures: As Stated

cc w/encs:

N. Hallein, EM-42/CLOV
G. Jablonowski, USEPA-V, 5HRE-8J
R. Beaumier, TPSS/DERR, OEPA-Columbus
T. Schneider, OEPA-Dayton (3 copies total of encs.)
F. Bell, ATSDR
D. S. Ward, GeoTrans
R. Vandegrift, ODOH
R. Geiger, PRC
T. Hagen, FDF/65-2
J. Harmon, FDF/90
AR Coordinator/78

cc w/o encs:

A. Tanner, DOE-FEMP
S. Hinnefeld, FDF/2
C. Little, FDF/2
EDC, FDF/52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1 through June 30, 1997. 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.

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OPERABLE UNIT 1

April 1997

- **Enforceable Milestones Completed**
 - None

- **Major Work Initiated/Completed**
 - Began evaluation of ARASA Proposals April 4, 1997
 - Continued north railyard construction
 - Continued modifications to Waste Pits Remedial Action Project (WPRAP) north access road
 - Continued development of the Transportation Plan
 - Continued development of specification for the procurement of 135 railcars
 - Initiated off-site trestle construction activities

May 1997

- **Enforceable Milestones Completed**
 - None

- **Major Work Initiated/Completed**
 - Completed evaluation of Alternative Remedial Action Subcontracting Approach (ARASA) initial proposals
 - Continued north railyard construction
 - Completed modifications to Waste Pits Remedial Action Project (WPRAP) north access road
 - Continued development of the Transportation Plan
 - Submitted the procurement package, including specifications, for 135 railcars to DOE for approval
 - Continued off-site trestle construction activities

June 1997

- **Enforceable Milestones Completed**
 - None

- **Major Work Initiated/Completed**
 - Requested and received Alternative Remedial Action Subcontracting Approach (ARASA) Best and Final Offers and reevaluated proposals
 - Continued north railyard construction
 - Continued development of the Transportation Plan, a Remedial Action Work Plan (RAWP) deliverable
 - Continued off-site trestle construction activities

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT JUNE 1-30, 1997 AND QUARTERLY REPORT APRIL 1 THROUGH JUNE 30, 1997 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

July 1997 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Send ARASA Consent Package to DOE-FEMP for approval
 - Continue north railyard construction
 - Continue development of the Transportation Plan
 - Continue off-site trestle construction activities
 - Initiate interactions with Envirocare specific to the Waste Pits Remedial Action Project (WPRAP)
 - DOE to issue Invitation for Bid for the procurement of 135 railcars

OPERABLE UNIT 2

April 1997

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - Milestone requiring construction of the OSDF to commence by April 30, 1997 (as found in the OU2 RAWP) was met on January 27, 1997, when Notice to Proceed was given to Village Building Services, Inc. to begin work on the OSDF Leachate Conveyance System, an integral component of the OSDF design
 - Soil Characterization & Excavation Project (SCEP)
 - None
- Major Work Initiated/Completed
 - OSDF
 - Telephone/electric poles were installed in preparation for relocation of the fiber optic cables which are currently buried in the path of the future OSDF Leachate Conveyance System
 - Awarded a contract to Petro Environmental Technologies, Inc., on April 3, 1997, for the construction of Phase I of the OSDF
 - SCEP
 - The site preparation procurement package for the remediation of the Southern Waste Units (Active Flyash Pile, Inactive Flyash Pile, and Southfield) has been submitted for Davis Bacon Determination
 - Continued work on the Integrated Remedial Design Package for the Operable Unit Waste Units; completion of this package is dependent on successful completion of the OU5 Area 1, Phase I Certification Report

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May 1997

- **Enforceable Milestones Completed**
 - **On-Site Disposal Facility (OSDF)**
 - None
 - **Soil Characterization & Excavation Project (SCEP)**
 - None

- **Major Work Initiated/Completed**
 - **OSDF**
 - Initiated installation of piping for the Leachate Conveyance System near the Vitrification Pilot Plant access road
 - Completed relocation of the fiber optic cables and telephone lines along Phase I of the Relocated North Access Road
 - Attended Soil & Water Projects Workshop on May 27, 1997, to provide updates to the stakeholders on the OSDF construction schedule, road closures, and realignment plans
 - **SCEP**
 - Continued work on the Integrated Remedial Design Package (IRDP) for the Southern Waste Units; remedial strategies under development in the Sitewide Excavation Plan and the Area 1, Phase I Certification Report are being incorporated in this IRDP
 - Attended a Soil & Water Projects Workshop on May 27, 1997, to provide an update to the stakeholders on soil certification and related issues

June 1997

- **Enforceable Milestones Completed**
 - **On-Site Disposal Facility (OSDF)**
 - None
 - **Soil Characterization & Excavation Project (SCEP)**
 - None

- **Major Work Initiated/Completed**
 - **OSDF**
 - Continued installation of lines for the Leachate Conveyance System in the area of the Vitrification Pilot Plant access road
 - Began OSDF Phase I construction on June 20, 1997, with clearing and grubbing of that portion of the pine stand in the northwest corner of the OSDF footprint
 - Continued work on the subgrade for the southern portion of the Haul Road
 - Began preparations for construction of the Relocated North Access Road
 - Installed fourth Type 2 groundwater monitoring well for the OSDF; initiated baseline sampling
 - Attended OSDF Waste Placement Public Workshop on June 24, 1997, to provide updates to the stakeholders on the OSDF construction schedule and various waste placement issues

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- SCEP
 - The draft Site Preparation Plan for Area 2, Phase I (Southern Waste Units were submitted to Ohio EPA and U.S. EPA for review and comment on June 13, 1997. The Certified for Construction Drawings for the Southern Waste Units were submitted to the agencies on June 16, 1997)
 - The procurement process for contracting the Southern Waste Units site preparation is underway. Construction is scheduled to start in early September, 1997.

July 1997 (Anticipated)

- Enforceable Milestones
 - OSDF
 - None
 - SCEP
 - None
- Major Work to be Initiated/Completed
 - OSDF
 - Complete construction of the sediment basin for OSDF Phase I
 - Excavate Cell 1 in preparation for liner installation
 - Close current FEMP North Access Road on July 1, 1997, to support OSDF Phase I construction; the Relocated North Access Road will open in October 1997
 - SCEP
 - Continue development of the Project Specific Plan for Area Sampling in the Southern Waste Units; once this plan is approved, Precertification and Certification sampling of the new North Access Road and Site Preparation facilities in the Southern Waste Units will begin
 - Continue work on the Southern Waste Units IRDP

OPERABLE UNIT 3

April 1997

- Enforceable Milestones Completed
 - Submitted comment responses and revisions to the Thorium/Plant 9 Implementation Plan to the Agencies on April 4, 1997
- Major Work Initiated/Completed
 - Safe Shutdown
 - Continued line draining and holdup material removal in Plant 2/3
 - Continued planning for safe shutdown activities in Plants 6 and 8
 - D&D
 - Continued activities in Boiler Plant/Water Plant

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May 1997

- **Enforceable Milestones Completed**
 - Submitted comment responses and revisions to the Integrated Remedial Design/Remedial Action Work Plan to the Agencies on May 12, 1997

- **Major Work Initiated/Completed**
 - **Safe Shutdown**
 - Continued holdup material removal in Plant 2/3
 - Continued planning for safe shutdown activities in Plants 6 and 8
 - **D&D**
 - Foster Wheeler Environmental began mobilization in Boiler Plant/Water Plant
 - Issued Request for Proposal (RFP) for the Thorium/Plant 9 D&D Project to prospective bidders in early May and held a pre-bid meeting on May 12, 1997

June 1997

- **Enforceable Milestones Completed**
 - Completed Plant 1 - Phase I D&D work on June 5, 1997
 - Received USEPA approval of the Integrated Remedial Design/Remedial Action Work Plan on June 11, 1997; DOE formally transmitted the final form of the document to the Agencies on June 19, 1997
 - Submitted annual NESHAPs report to USEPA on June 24, 1997
 - Submitted comment responses and revisions to the Thorium/Plant 9 Implementation Plan on June 26, 1997
 - Submitted Removal Action 26 (Asbestos Removals) Annual Report to USEPA on June 30, 1997

- **Major Work Initiated/Completed**
 - **Safe Shutdown**
 - Continued line draining and holdup material removal in Plant 2/3
 - Conducted utility disconnects in Plant 6
 - Began holdup material removal from the Sewage Treatment Plant Incinerator
 - Mobilized and began initial activities in Plant 8
 - **D&D**
 - Performed asbestos abatement activities in Boiler Plant/Water Plant
 - Issued Amendment #1 to Thorium/Plant 9 D&D Project Request for Proposal (RFP) to prospective bidders on June 2, 1997; proposals were due June 17, 1997
 - Began evaluation of responses to RFP for Thorium/Plant 9

July 1997 (Anticipated)

- **Enforceable Milestones**
 - None

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- Major Work to be Initiated/Completed
 - Safe Shutdown
 - Continue line draining and holdup material removal in Plant 2/3
 - Continue activities in Plant 6
 - Continue activities in Plant 8
 - D&D
 - Continue Boiler Plant/Water Plant activities

OPERABLE UNIT 4

April 1997

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Issued formal response letter to Agency comments on the Draft Final Silo 3 Alternatives Evaluation Report on April 2, 1997
 - Completed and issued the final version of the Independent Review Team (IRT) Reports on April 28, 1997
 - Issued formal response letter to comments from the Fernald Citizens Task Force (FCTF) on the Draft Final Silo 3 Alternatives Evaluation Report referenced in memorandum dated October 17, 1996, from Gene Willeke, FCTF, to Jack Craig (DOE-FN) on April 29, 1997

May 1997

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Met with the Waste Management Committee of the Fernald Citizens Task Force (FCTF) on May 7, 1997, to discuss issues associated with the Silos Project path forward
 - FEMP representatives also attended the meeting of the Nevada Test Site Citizens Advisory Board (NTS CAB) Environmental Impact Statement (EIS) Subcommittee, as well as the regular monthly meeting of the full CAB, on May 7, 1997, in Nevada
 - Attended the full FCTF meeting on May 10, 1997, to provide support and answer questions as the Task Force continues to review the Silos Project path forward
 - Conducted a combined Public Workshop/FCTF Waste Management Committee Meeting on May 14, 1997, to discuss and solicit stakeholder input on the process for selecting a technology for stabilization/solidification of Silo 3 residues
 - The Market Survey for the potential Silos 1 and 2 vitrification subcontract is approximately 66% complete; letters were sent to prospective bidders on April 28, 1997, and various meetings were held with five prospective participants during the period of May 12 - 23, 1997

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- The Agreement in Principle to Resolve Dispute Concerning Extension of Time to Meet Operable Unit 4 Milestones was signed by USEPA and DOE on May 15, 1997

June 1997

- Enforceable Milestones Completed
 - USEPA and DOE continued OU4 milestone dispute resolution efforts as outlined in the Agreement in Principle to Resolve Dispute Concerning Extension of Time to Meet Operable Unit 4 Milestones (AIP) which was signed by both parties on May 15, 1997; negotiation of draft schedules for submission of milestones and a discussion of proposals for resolution of stipulated penalties began on June 16, 1997, as documented in a letter from Johnny Reising, DOE-FEMP, to James Saric, USEPA
- Major Work Initiated/Completed
 - Conducted a Silo 3 Stabilization Workshop in Nevada on June 3, 1997; this workshop is part of an effort to mirror for Nevada stakeholders the same information that is being presented to our local stakeholders concerning evaluation of the best technology for stabilizing/solidifying Silo 3 residues
 - Attended regular monthly meeting of the NTS CAB, as well as the CAB's Transportation Protocol Working Group meeting, both of which occurred on June 4, 1997
 - Met with the Waste Management Committee of the Fernald Citizens Task Force (FCTF) on June 9, 1997, to discuss three potential Silos 1 and 2 Project Path Forward schedule options and provide DOE-FEMP with stakeholder input concerning them
 - Conducted a combined Public Workshop/FCTF Waste Management Committee Meeting on June 16, 1997, to provide support and answer questions as the stakeholders continued to evaluate the best technology for stabilization/solidification of Silo 3 residues; this meeting focused on evaluating four treatment technologies carried forward from the Silo 3 Workshop in May, which are cement stabilization/solidification, polymer (micro) encapsulation, sulfur/polymer encapsulation, and vitrification
 - Completed the last of the Marketing Survey meetings for potential treatment alternatives for Silos 1 and 2 wastes and have begun to prepare a summary of the key findings.

July 1997 (Anticipated)

- Enforceable Milestones
 - USEPA and DOE-FEMP, pursuant to the AIP dated May 15, 1997, will continue to negotiate to meet the terms of the AIP

(Note that the July 21, 1997, milestone for New Radon Treatment System Award/Construction will not be met. DOE - FEMP intends to negotiate resolution of this, and other existing RD/RA milestones, through the ACA amendment required by July 14 under the AIP.)

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- Major Work to be Initiated/Completed
 - Conduct a Silo 3 Stabilization Workshop in Nevada for NTS stakeholders on July 1, 1997; this workshop will mirror for Nevada stakeholders the same information that was presented to our local stakeholders at their workshop on June 16, 1997
 - Attend regular monthly meeting of the NTS CAB on July 2, 1997
 - Assist in hosting a trip to Brookhaven National Laboratory for members of the FCTF Waste Management committee on July 16, 1997; this one-day trip will give the committee an opportunity to receive presentations and ask specific questions concerning the two encapsulation technologies being considered for stabilization/solidification of Silo 3 residues
 - Conduct a combined Public Workshop/FCTF Waste Management Committee Meeting on July 29, 1997, to continue soliciting stakeholder input in selection of the stabilization alternative for treatment of Silo 3 waste.

OPERABLE UNIT 5

April 1997

- Enforceable Milestones Completed
 - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
 - Submitted the Design, Monitoring, and Evaluation Program Plan (DMEPP) to the Agencies on March 27, 1997, meeting the actual milestone date of April 1, 1997
 - Submitted Draft Final Baseline Remedial Strategy Report to the Agencies on April 11, 1997
 - Submitted Draft Final Remedial Action Work Plan for Aquifer Restoration to the Agencies on April 11, 1997
 - Submittal of the Final Restoration Area Verification Sampling Program Project-Specific Plan to the Agencies, originally scheduled for April 29, 1997, has been deferred per verbal agreement with Jim Saric, USEPA (no date has been assigned).
 - SCEP
 - None
- Major Work Initiated/Completed
 - ARP/AWWT
 - Awarded Sewage Treatment Plant Phase I contract to Diaz Incorporated On April 15, 1997
 - Submitted initial Draft South Plume Performance Monitoring and Maintenance Plan for Operable Unit 5 to DOE-FEMP on April 30, 1997
 - Continued construction of storm sewers in west parking lot in support of the Parking Lot Stormwater Runoff Diversion Project; anticipated completion date is June 24, 1997
 - Began design work on the following:
 - Sludge removal from the Storm Water Retention Basin (SWRB) and the Bionitrification Surge Lagoon (BSL)
 - Miscellaneous upgrades to the AWWT

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- **SCEP**
 - Continued assessment of analytical data associated with ongoing Comparability Study
 - Continued development of the Area 1, Phase I Certification Report
 - Sent collected samples from Area 1, Subareas A, B, B1, and the pump station (all OSDF support facilities) for analysis
 - Additional resources assigned to the development and redesign of the Sitewide Excavation Plan

May 1997

- **Enforceable Milestones Completed**
 - **Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)**
 - Submitted Final Restoration Area Verification Sampling Program Project-Specific Plan to the Agencies on May 21, 1997
 - Submitted response to comments documents to the Agencies on May 23, 1997, for the following items:
 - Draft Final Integrated Environmental Monitoring Plan (IEMP)
 - Draft Final OSDF Groundwater/Leak Detection and Leachate Monitoring Plan
 - **SCEP**
 - None
- **Major Work Initiated/Completed**
 - **ARP/AWWT**
 - Attended meeting of the Monitoring/Recycling Committee of the FCTF on May 21, 1997, to provide a status report on the IEMP
 - Distributed a Remedial Design Fact Sheet describing necessary changes to Final Remediation Limits (FRLs) for fluoride and lead to attendees at the Soil & Water Projects Workshop on May 27, 1997
 - Initiated AWWT Regeneration System Alteration Project construction on May 27, 1997
 - Continued construction of storm sewers in northern portion of the west parking lot in support of the Parking Lot Stormwater Runoff Diversion Project
 - Continued design work on sludge removal from the Storm Water Retention Basin and the Bionitrification Surge Lagoon, and miscellaneous upgrades to the AWWT
 - **SCEP**
 - Attended a Soil & Water Projects Workshop on May 27, 1997, to provide an update to the stakeholders on soil certification and related issues
 - Submitted Draft Area 1, Phase I Certification Report to DOE for review and comment on May 29, 1997; 79 of the 81 Certification Units (CUs) within A1, PI have passed certification (i.e., average concentrations are less than FRLs)
 - Implemented corrective actions for the two failed CUs in A1, PI; sent more samples for analysis to verify adequacy of the corrective actions
 - Continued development and redesign of the Sitewide Excavation Plan
 - Continued assessment of analytical data associated with ongoing Comparability Study

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June 1997

- **Enforceable Milestones Completed**
 - **Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)**
 - Submitted the following documents to the Agencies on June 27, 1997:
 - Final RAWP for Aquifer Restoration
 - Final Baseline Remedial Strategy Report for Aquifer Restoration
 - Transmitted the Draft Operations and Maintenance Master Plan (OMMP) for the Aquifer and Wastewater Treatment Project to the Agencies on June 30, 1997, meeting the milestone date of July 1, 1997; note that the South Plume Performance Monitoring and Maintenance Plan was revised and incorporated into the OMMP as Appendix A
 - **SCEP**
 - Submitted the Certification Report for Area 1, Phase I to the Agencies on June 30, 1997, meeting the milestone date of July 1, 1997
- **Major Work Initiated/Completed**
 - **ARP/AWWT**
 - Completed the Parking Lot Stormwater Runoff Diversion Project on June 10, 1997
 - Transmitted the following items to the Agencies on June 17, 1997:
 - Remedial Design Fact Sheet for Operable Unit 5 Aquifer Restoration - Groundwater Final Remediation Levels (FRLs) for Fluoride and Lead
 - Revised Groundwater Final Remediation Level Table
 - Held pre-bid meeting on June 25, 1997, for the South Plume Optimization, South Field Extraction System, and Injection Demonstration Projects; bids are to be received by July 17, 1997
 - Continued construction on AWWT regeneration project, which is approximately 50% complete; target operational date is September 1997
 - Continued construction on the Sewage Treatment Plant Relocation, which is approximately 30% complete
 - **SCEP**
 - Submitted Final Draft of Sitewide Excavation Plan (SEP) to DOE-FEMP for review and comment
 - Began incorporating DOE comments on the Draft Comparability Study for the High Purity Germanium (HPGe) Detector Systems

July 1997 (Anticipated)

- **Enforceable Milestones**
 - **ARP/AWWT**
 - Transmit the OMMP described in the June milestone section above to the Agencies by July 1, 1997; this milestone was met on June 30, 1997
 - **SCEP**
 - Submit the Area 1, Phase I Certification Report to the Agencies on July 1, 1997; this milestone was met on June 30, 1997
 - Submit the HPGe and RTRAK Comparability Studies to the Agencies by July 14, 1997
 - Submit the SEP to the Agencies by July 14, 1997

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- Major Work to be Initiated/Completed
 - ARP/AWWT
 - Prepare Final Integrated Environmental Monitoring Plan (IEMP) and Final OSDF Groundwater/Leak Detection and Leachate Monitoring Plan, contingent upon Agency approval of comment responses
 - Implement IEMP sampling, contingent upon Agency approval
 - SCEP
 - Continue development of the Area 1, Phase II Design Package
 - Complete the Project Specific Sampling Plan for Area 1, Phase II and initiate Precertification, Certification, and WAC sampling

WASTE MANAGEMENT

April 1997

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 319.00 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Chemical Treatment Projects
 - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Revised Perma-Fix procedure for processing of enriched pyrophoric materials
 - Treated 109.00 m³ of mixed waste
 - Completed and transmitted Work Plan for the Treatment, Storage, and Disposal Facility (TSDF) Project to DOE-FEMP
 - Initiated sampling of Thoria Gel containers from Building 60 for the Thorium Stabilization Project on April 9, 1997
 - RCI Solvent Extraction Project
 - Conducted project ribbon cutting ceremony on April 15, 1997
 - Completed Hazards and Operability Analysis (HAZOP) and submitted it to the Independent Safety Review Committee (ISRC) for review on April 28, 1997
 - Resubmitted Auditable Safety Record (ASR) and Unreviewed Safety Questions (USQs) to the ISRC for review on April 30, 1997

May 1997

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 1,616.00 m³ low level waste to Nevada Test Site (NTS)

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- Mixed Waste Treatment Projects
 - Chemical Treatment Projects
 - Treated 1.00 m³ mixed waste in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project

June 1997

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 1,725.00 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Chemical Treatment Projects
 - Treated 2.60 m³ mixed waste in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Hazardous Waste Recycling Project --- It was reported in the May 1997 Progress Report that shipment of non-hazardous silver recovery cartridges to the Safety Kleen facility in Lexington, South Carolina did not occur; however, the shipment was made as scheduled on May 6, 1997
 - RCI Solvent Extraction Project --- Auditable Safety Record and Unreviewed Safety Questions were approved by the Ohio Field Office
 - Thorium Stabilization Project --- Proposals were received from potential contractors in June for cement stabilization of thorium waste which is identified as mixed; contract is scheduled to be awarded in August 1997

July 1997 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Mixed Waste Treatment Projects
 - None
 - Chemical Treatment Projects
 - RCI Solvent Extraction --- Perform construction acceptance testing and systems operability testing in preparation for project startup

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT JUNE 1-30, 1997 AND QUARTERLY
REPORT APRIL 1 THROUGH JUNE 30, 1997 INCLUDING EFFLUENT RADIATION
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

THORIUM OVERPACKING PROJECT UPDATE (TOP)

All figures cumulative as of July 1, 1997

- Overpacked 5,577 drums
- Filled 971 Thorium Overpack Containers (TOCs)
- Shipped 961 TOCs

Overpacking of the thorium containers associated with this project was completed on May 21, 1997, 10 months ahead of schedule, significantly under budget, and at a worker exposure rate less than half of that originally estimated. TOCs shipped is 99.38% complete, leaving 6 TOCs to be shipped to the Nevada Test Site.

ATTACHMENT A

EFFLUENT RADIATION REPORTS

EFFLUENT RADIATION REPORT

APRIL 1997

PARSHALL FLUME (Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	54,923,000	N/A	N/A	N/A	3.07	N/A
Avg (2)	1,831,000	10	19	15	0.10	5
Max	2,424,000	20	35	25	0.17	8
Min	936,000	7	13	8	0.04	3

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required No Sample Collected This Month	
Total	47,617,000	N/A	3.36	East Sump	
Avg (2)	1,587,000	19	0.11	Solids	
Max	2,160,000	72	0.45	Total U	
Min	1,134,000	6	0.04	West Sump	
STORMWATER RUNOFF TO PADDY'S RUN				Solids	
Precipitation				Total U	
Total U				Total Gallons	
				2.29 in	
				6.76 kg	

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EFFLUENT RADIATION REPORT

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MAY 1997

PARSHALL FLUME (Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	56,498,000	N/A	N/A	N/A	3.38	N/A
Avg (2)	1,823,000	11	19	16	0.11	5
Max	3,648,000	16	37	26	0.23	9
Min	582,000	7	11	6	0.02	2

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required No Sample Collected This Month	
Total	36,185,000	N/A	2.25	East Sump	
Avg (2)	1,167,000	16	0.07	Solids	
Max	1,755,000	47	0.18	Total U	
Min	946,000	8	0.05	West Sump	
STORMWATER RUNOFF TO PADDY'S RUN				Solids	
Precipitation				Total U	
Total U				Total Gallons	
			7.22 in		
			20.51 kg		

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EFFLUENT RADIATION REPORT

JUNE 1997

PARSHALL FLUME (Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	104,225,000	N/A	N/A	N/A	10.87	N/A
Avg (2)	3,474,000	(3)	(3)	28	0.36	8
Max	5,192,000	(3)	(3)	77	1.46	26
Min	2,218,000	(3)	(3)	10	0.08	3

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	4,449,000	N/A	N/A	N/A	(3)	NA
Avg (2)	890,000	(3)	(3)	(3)	(3)	(3)
Max	1,089,000	(3)	(3)	(3)	(3)	(3)
Min	777,000	(3)	(3)	(3)	(3)	(3)

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	1,318,000	N/A	N/A	N/A	1.57	
Avg (2)	1,318,000	(3)	(3)	314	1.57	
Max	1,318,000	(3)	(3)	314	1.57	
Min	1,318,000	(3)	(3)	314	1.57	

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required	
Total	60,473,000	N/A		Sample Collected	06/26/97
Avg (2)	2,016,000			East Sump	
Max	2,164,000			Solids	180 mg/l
Min	1,836,000			Total U	351.7 ug/l
STORMWATER RUNOFF TO PADDY'S RUN				West Sump	
				No Sample Collected Due To Construction.	
Precipitation				Total Gallons	
Total U	6.75 in			Totalizer Not Working.	
	19.18 kg				

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ATTACHMENT B

RADON REPORTS

**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: APRIL
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**SELECTED ENVIRONMENTAL MONITORING
RADON CONCENTRATIONS REPORT**

Report Generated:
07/08/97

Daily Averages	AMS 5	AMS 6	PILOT PLANT	AMS 11	BKGD 2	K65,NW	K65,SW	K65,NE	K65,SE
	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
04/01/97	0.8	0.8	0.8	0.8	0.8	1.5	2.7	8.2	4.8
04/02/97	1.2	1.1	0.8	0.8	0.7	2.0	4.7	13.5	12.7
04/03/97	1.2	1.2	0.9	0.9	0.7	2.9	4.5	28.8	22.3
04/04/97	1.3	1.2	0.9	1.0	0.8	2.0	3.1	11.2	12.7
04/05/97	0.8	0.7	0.4	0.5	0.8	2.7	1.5	1.0	0.9
04/08/97	0.5	0.6	0.4	0.5	0.5	0.8	0.5	1.5	1.1
04/07/97	0.8	0.7	0.4	0.6	0.8	0.8	0.5	2.9	3.0
04/08/97	1.0	1.0	0.6	0.9	0.7	1.9	2.2	4.2	4.5
04/09/97	0.7	0.7	0.4	0.6	0.8	1.0	0.7	2.8	3.4
04/10/97	1.0	1.1	0.6	0.8	0.7	2.7	4.4	5.9	7.0
04/11/97	0.7	0.9	0.4	0.6	0.8	4.5	6.5	0.6	0.9
04/12/97	0.7	0.8	0.4	0.6	0.8	3.8	1.7	2.0	1.8
04/13/97	0.8	0.7	0.4	0.5	0.5	0.8	0.8	2.5	2.5
04/14/97	0.8	0.8	0.6	0.7	0.7	1.5	1.5	3.3	3.3
04/15/97	1.0	1.1	0.8	0.8	0.7	1.7	2.9	11.1	6.6
04/16/97	1.1	1.1	0.9	1.0	0.7	1.8	2.1	18.3	14.1
04/17/97	0.8	0.7	0.4	0.6	0.8	0.8	0.7	0.9	4.0
04/18/97	0.7	0.7	0.5	0.6	0.7	1.3	1.2	7.7	6.1
04/18/97	0.7	0.8	0.5	0.6	0.6	1.3	1.8	8.9	4.8
04/20/97	1.2	1.3	0.8	0.9	0.7	1.8	2.9	7.4	8.8
04/21/97	1.1	1.2	0.7	0.8	0.7	3.2	4.3	7.5	8.0
04/22/97	1.1	1.1	0.6	0.8	0.8	1.9	2.4	5.8	4.7
04/23/97	0.8	0.7	0.4	0.6	0.6	0.7	1.4	0.7	1.5
04/24/97	0.8	0.8	0.4	0.7	0.7	0.9	1.2	1.0	2.2
04/25/97	1.0	1.2	0.6	0.9	0.8	1.2	1.3	2.2	2.8
04/26/97	1.0	1.1	0.6	0.8	0.7	1.9	4.4	3.5	3.9
04/27/97	0.7	0.9	0.5	0.7	0.6	4.4	6.3	0.9	2.2
04/28/97	0.6	0.8	0.4	0.6	0.6	0.8	2.3	0.6	1.2
04/29/97	1.1	1.0	0.6	0.9	0.7	2.7	3.2	4.0	4.0
04/30/97	1.4	1.3	1.0	1.0	0.8	2.8	4.7	18.3	15.1

Monthly Statistics

	AMS 5	AMS 6	PILOT	BKGD 1	BKGD 2	K65,NW	K65,SW	K65,NE	K65,SE
Average:	0.9	0.9	0.6	0.7	0.7	1.9	2.6	5.9	5.7
Maximum:	1.4	1.3	1.0	1.0	0.8	4.5	6.5	28.8	22.3
Minimum:	0.5	0.6	0.4	0.5	0.5	0.8	0.5	0.6	0.9
Median:	0.8	0.8	0.6	0.7	0.7	1.8	2.3	3.8	4.0
Std. Dev:	0.2	0.2	0.2	0.2	0.1	1.1	1.7	5.9	5.0

- STANDARD LEGEND:
1. "(a)" indicates edited data due to erroneous readings from the monitoring equipment.
 2. "(b)" indicates partial or complete data loss due to monitor malfunction.
 3. "(c)" indicates partial or complete data loss due to programming error in monitor.
 4. All values reported in pCi/L are non instrument background corrected.

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**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT /
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: APRIL
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**K-65 SILO REPORT
RADON CONCENTRATIONS**

Summary of Continuous Monitoring Results

Report Date: 07/07/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
04/01/97	8.30E+06	8.55E+06	7.81E+06	1.29E+05	5.92E+06	6.09E+06	5.65E+06	9.11E+04
04/02/97	8.19E+06	8.61E+06	3.43E+05	7.33E+05	5.93E+06	6.22E+06	1.66E+06	3.41E+05
04/03/97	8.33E+06	8.61E+06	6.65E+06	2.15E+05	6.04E+06	6.21E+06	5.65E+06	1.13E+05
04/04/97	8.26E+06	8.77E+06	2.17E+05	1.12E+06	6.06E+06	6.26E+06	5.69E+06	1.24E+05
04/05/97	8.49E+06	8.64E+06	8.39E+06	6.47E+04	6.10E+06	6.28E+06	5.65E+06	1.60E+05
04/06/97	8.42E+06	8.64E+06	2.17E+05	6.04E+05	5.48E+06	6.07E+06	-7.29E+04	5.60E+05
04/07/97	8.43E+06	8.63E+06	5.79E+06	1.91E+05	5.65E+06	5.92E+06	3.82E+06	1.72E+05
04/08/97	8.25E+06	8.44E+06	3.10E+06	3.48E+05	5.72E+06	5.92E+06	2.13E+06	2.35E+05
04/09/97	8.25E+06	8.45E+06	7.87E+06	1.14E+05	5.71E+06	6.02E+06	5.30E+06	1.95E+05
04/10/97	8.39E+06	8.80E+06	7.92E+06	1.29E+05	5.71E+06	6.24E+06	3.58E+06	6.28E+05
04/11/97	8.39E+06	8.66E+06	7.85E+06	2.06E+05	6.10E+06	6.25E+06	5.84E+06	8.59E+04
04/12/97	8.66E+06	8.94E+06	8.30E+06	1.39E+05	6.15E+06	6.30E+06	5.83E+06	1.08E+05
04/13/97	8.70E+06	8.96E+06	8.29E+06	1.58E+05	5.86E+06	6.03E+06	5.60E+06	7.15E+04
04/14/97	8.31E+06	8.63E+06	7.87E+06	2.57E+05	5.92E+06	6.07E+06	5.71E+06	8.97E+04
04/15/97	8.23E+06	8.68E+06	2.20E+06	4.73E+05	6.00E+06	6.19E+06	2.64E+06	2.08E+05
04/16/97	8.39E+06	8.60E+06	7.93E+06	1.42E+05	6.11E+06	6.28E+06	5.72E+06	1.09E+05
04/17/97	8.60E+06	8.69E+06	8.30E+06	5.05E+04	6.16E+06	6.25E+06	5.92E+06	5.13E+04
04/18/97	8.59E+06	8.84E+06	4.57E+06	2.82E+05	6.20E+06	6.40E+06	3.28E+06	1.91E+05
04/19/97	8.63E+06	8.87E+06	8.25E+06	1.94E+05	6.29E+06	6.43E+06	6.09E+06	1.04E+05
04/20/97	8.51E+06	8.92E+06	8.05E+06	3.12E+05	6.21E+06	6.40E+06	5.95E+06	1.02E+05
04/21/97	8.55E+06	8.77E+06	8.23E+06	1.32E+05	6.33E+06	6.47E+06	6.17E+06	7.50E+04
04/22/97	8.24E+06	8.61E+06	1.25E+06	6.77E+05	5.98E+06	6.22E+06	7.12E+05	5.06E+05
04/23/97	8.52E+06	8.74E+06	8.12E+06	1.43E+05	6.08E+06	6.26E+06	5.74E+06	9.85E+04
04/24/97	8.11E+06	8.52E+06	4.96E+06	2.79E+05	5.98E+06	6.17E+06	3.26E+06	2.31E+05
04/25/97	8.01E+06	8.48E+06	7.50E+06	3.34E+05	5.99E+06	6.17E+06	5.72E+06	9.19E+04
04/26/97	7.88E+06	8.27E+06	7.59E+06	2.47E+05	5.96E+06	6.15E+06	5.74E+06	8.10E+04
04/27/97	8.14E+06	8.26E+06	7.90E+06	8.42E+04	6.15E+06	6.23E+06	5.95E+06	5.49E+04
04/28/97	8.19E+06	8.42E+06	7.79E+06	1.45E+05	6.07E+06	6.27E+06	5.60E+06	1.81E+05
04/29/97	7.87E+06	8.44E+06	2.72E+06	4.91E+05	5.95E+06	6.14E+06	4.28E+06	1.47E+05
04/30/97	8.12E+06	8.53E+06	7.49E+06	3.02E+05	5.98E+06	6.30E+06	3.73E+06	2.75E+05

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
04/02/97	5.93E+06	7.04E+06
04/08/97	6.06E+06	6.92E+06
04/09/97	6.65E+06	6.20E+06
04/15/97	6.78E+06	6.57E+06
04/18/97	7.79E+06	7.28E+06
04/22/97	7.89E+06	7.02E+06
04/24/97	8.37E+06	6.46E+06
04/29/97	8.27E+06	6.60E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

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**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT /
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: MAY
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**SELECTED ENVIRONMENTAL MONITORING
RADON CONCENTRATIONS REPORT**

Report Generated:
07/07/97

Daily Averages	AMS 5	AMS 6	PILOT PLANT	AMS 11	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE	
	WAREHOUSE Background 1 Miami town									
	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
05/01/97	0.8	0.7	0.4	0.5	0.8	0.7	0.7	2.0	1.4	
05/02/97	0.8	1.1	0.5	0.7	0.7	5.3	8.0	2.7	2.9	
05/03/97	0.8	0.7	0.4	0.5	0.5	2.3	1.3	1.8	1.8	
05/04/97	0.5	0.8	0.4	0.5	0.8	0.7	0.7	2.0	2.1	
05/05/97	0.7	0.8	0.5	0.7	0.8	0.9	1.2	8.1	5.9	
05/06/97	0.5	0.7	0.4	0.5	0.8	0.8	0.7	1.4	1.8	
05/07/97	1.0	1.1	0.8	0.8	0.7	2.1	3.1	3.8	4.7	
05/08/97	0.7	0.8	0.5	0.7	0.7	3.5	3.8	2.9	1.8	
05/09/97	0.8	0.7	0.4	0.5	0.8	0.8	0.8	3.2	3.3	
05/10/97	0.5	0.8	0.4	0.5	0.5	0.8	0.7	2.2	4.2	
05/11/97	0.8	0.8	0.6	0.7	0.8	1.3	1.7	5.2	4.7	
05/12/97	0.8	0.7	0.4	0.5	0.5	0.7	0.7	3.4	2.1	
05/13/97	0.9	1.0	0.7	0.8	0.7	1.4	1.8	10.8	7.7	
05/14/97	0.9	1.0	0.8	0.8	0.7	1.9	2.4	7.2	7.7	
05/15/97	0.8	0.7	0.4	0.8	0.8	0.8	0.7	2.3	2.3	
05/16/97	0.8	0.8	0.5	0.8	0.7	1.3	1.7	3.1	3.0	
05/17/97	0.5	0.7	0.4	0.8	0.8	0.8	0.8	1.8	1.0	
05/18/97	0.7	0.8	0.4	0.8	0.7	1.0	1.1	3.9	2.3	
05/19/97	0.8	0.7	0.4	0.8	0.8	0.8	0.7	1.4	1.4	
05/20/97	0.8	0.7	0.4	0.8	0.5	0.7	0.8	1.0	1.4	
05/21/97	0.8	0.8	0.5	0.8	0.7	1.0	1.3	2.4	2.5	
05/22/97	0.9	1.0	0.8	0.8	0.7	2.0	2.2	4.4	4.9	
05/23/97	1.0	1.1	0.8	0.8	0.7	3.2	4.1	5.7	8.7	
05/24/97	1.1	1.2	0.9	1.0	0.8	2.1	2.8	15.0	22.1	
05/25/97	0.8	0.7	0.4	0.8	0.5	0.8	0.8	1.4	1.2	
05/26/97	0.5	0.8	0.4	0.5	0.5	0.7	2.3	0.5	0.8	
05/27/97	0.5	0.7	0.4	0.5	0.8	0.7	4.2	0.5	0.8	
05/28/97	0.8	0.7	0.4	0.5	0.8	1.7	2.8	0.8	0.8	
05/29/97	0.5	0.7	0.4	0.5	0.5	1.2	0.5	0.8	0.8	
05/30/97	0.8	0.8	0.4	0.5	0.8	1.7	1.9	5.2	2.8	
05/31/97	0.8	0.8	0.5	0.7	0.7	1.2	8.0	0.7	1.0	

Monthly Statistics

	AMS 5	AMS 6	PILOT	BKGD 1	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE
Average:	0.7	0.8	0.5	0.8	0.8	1.4	1.8	3.5	3.8
Maximum:	1.1	1.2	0.8	1.0	0.8	5.3	8.0	15.0	22.1
Minimum:	0.5	0.8	0.4	0.5	0.5	0.8	0.5	0.5	0.8
Median:	0.8	0.7	0.4	0.8	0.8	1.0	1.3	2.5	2.3
Std. Dev:	0.2	0.2	0.1	0.1	0.1	1.0	1.3	3.2	4.0

- STANDARD LEGEND:
- "(a)" indicates edited data due to erroneous readings from the monitoring equipment.
 - "(b)" indicates partial or complete data loss due to monitor malfunction.
 - "(c)" indicates partial or complete data loss due to programming error in monitor.
 - All values reported in pCi/L are non instrument background corrected.

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**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT /
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: MAY
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**K-65 SILO REPORT
RADON CONCENTRATIONS**

Summary of Continuous Monitoring Results

Report Date: 07/07/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
05/01/96	8.45E+06	8.76E+06	7.90E+06	2.18E+05	5.90E+06	6.26E+06	5.33E+06	2.48E+05
05/02/96	8.16E+06	8.39E+06	7.76E+06	1.47E+05	5.98E+06	6.17E+06	5.29E+06	1.11E+05
05/03/96	8.33E+06	8.44E+06	8.24E+06	4.57E+04	5.91E+06	6.18E+06	5.03E+06	2.50E+05
05/04/96	7.90E+06	8.28E+06	7.48E+06	2.17E+05	5.83E+06	6.02E+06	5.49E+06	9.12E+04
05/05/96	7.88E+06	8.22E+06	1.95E+06	4.06E+05	5.71E+06	6.03E+06	3.72E+06	3.23E+05
05/06/96	7.82E+06	8.18E+06	7.48E+06	2.59E+05	5.94E+06	6.12E+06	5.74E+06	1.14E+05
05/07/96	7.65E+06	8.18E+06	5.70E+06	3.99E+05	5.87E+06	6.10E+06	4.48E+06	1.45E+05
05/08/96	8.05E+06	8.25E+06	6.70E+06	1.51E+05	6.12E+06	6.26E+06	5.42E+06	1.00E+05
05/09/96	8.24E+06	8.33E+06	7.92E+06	5.36E+04	6.07E+06	6.23E+06	5.78E+06	1.13E+05
05/10/96	7.95E+06	8.22E+06	7.65E+06	1.90E+05	5.99E+06	6.12E+06	5.85E+06	5.22E+04
05/11/96	7.86E+06	8.26E+06	7.53E+06	2.57E+05	5.94E+06	6.14E+06	5.62E+06	1.31E+05
05/12/96	8.22E+06	8.36E+06	8.08E+06	7.99E+04	5.95E+06	6.19E+06	5.59E+06	1.49E+05
05/13/96	8.22E+06	8.59E+06	4.10E+06	4.19E+05	6.02E+06	6.27E+06	3.07E+06	2.99E+05
05/14/96	8.23E+06	8.61E+06	7.62E+06	2.46E+05	5.98E+06	6.32E+06	5.19E+06	2.69E+05
05/15/96	8.26E+06	1.04E+07	5.91E+06	3.00E+05	5.84E+06	7.23E+06	-7.29E+04	4.49E+05
05/16/97	7.95E+06	8.40E+06	7.09E+06	3.21E+05	5.93E+06	6.21E+06	5.39E+06	1.26E+05
05/17/97	7.85E+06	8.22E+06	7.43E+06	2.61E+05	5.91E+06	6.19E+06	5.67E+06	1.21E+05
05/18/97	7.87E+06	8.24E+06	7.59E+06	2.27E+05	5.96E+06	6.21E+06	5.59E+06	1.66E+05
05/19/97	7.91E+06	8.27E+06	3.97E+06	3.11E+05	5.92E+06	6.15E+06	3.33E+06	2.05E+05
05/20/97	8.05E+06	8.36E+06	7.06E+06	2.54E+05	5.99E+06	6.21E+06	5.42E+06	1.35E+05
05/21/97	8.07E+06	8.42E+06	7.70E+06	2.07E+05	6.05E+06	6.29E+06	5.69E+06	1.04E+05
05/22/97	7.86E+06	8.31E+06	1.20E+05	6.73E+05	6.02E+06	6.23E+06	-1.73E+05	4.40E+05
05/23/97	7.96E+06	8.42E+06	7.21E+06	3.38E+05	6.19E+06	6.33E+06	5.83E+06	7.96E+04
05/24/97	7.92E+06	1.65E+07	2.17E+05	7.87E+05	6.22E+06	6.54E+06	5.71E+06	1.94E+05
05/25/97	8.23E+06	8.54E+06	7.76E+06	1.34E+05	6.40E+06	6.49E+06	6.02E+06	7.99E+04
05/26/97	8.35E+06	8.57E+06	7.97E+06	1.34E+05	6.34E+06	6.56E+06	5.48E+06	2.37E+05
05/27/97	8.09E+06	8.32E+06	7.64E+06	1.51E+05	6.16E+06	6.54E+06	5.65E+06	2.60E+05
05/28/97	8.15E+06	8.44E+06	1.29E+05	5.07E+05	6.29E+06	6.57E+06	-1.73E+05	4.08E+05
05/29/97	8.17E+06	8.32E+06	7.87E+06	8.84E+04	6.45E+06	6.56E+06	6.12E+06	6.00E+04
05/30/97	7.98E+06	8.24E+06	7.38E+06	1.96E+05	6.36E+06	6.58E+06	5.94E+06	1.27E+05
05/31/97	8.25E+06	8.36E+06	8.10E+06	6.49E+04	6.45E+06	6.52E+06	6.31E+06	3.42E+04

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
05/01/97	7.96E+06	6.85E+06
05/05/97	7.58E+06	6.72E+06
05/08/97	8.65E+06	6.69E+06
05/13/97	8.45E+06	6.64E+06
05/15/97	7.74E+06	7.05E+06
05/19/97	7.95E+06	6.85E+06
05/22/97	8.35E+06	6.44E+06
05/28/97	7.83E+06	7.48E+06
05/30/97	8.54E+06	7.01E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

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**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: JUNE
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**SELECTED ENVIRONMENTAL MONITORING
RADON CONCENTRATIONS REPORT**

Report Generated:
07/07/97

Daily Averages	AMS 5		AMS 6		PILOT PLANT		AMS 11		BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE				
	WAREHOUSE Background 1																
	Miamitown																
	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)				
08/01/97	0.8	(b)	0.7		0.4		0.5		0.8		0.9		2.7		2.9		1.7
08/02/97	N/A	(b)	0.7		0.4		0.5		0.8		1.0		1.8		2.0		1.7
08/03/97	0.5	(b)	0.7		0.4		0.5		0.8		0.7		1.8		0.5		1.0
08/04/97	0.5		0.7		0.4		0.5		0.5		0.9		3.8		1.8		1.7
08/05/97	0.8		0.9		0.8		0.7		0.7		2.8		4.5		4.2		5.0
08/08/97	0.8		0.7		0.4		0.8		0.8		2.6		2.5		2.1		1.7
08/07/97	0.8		0.8		0.4		0.5		0.8		1.9		2.3		0.8		0.9
08/08/97	0.8		0.8		0.4		0.5		0.8		0.9		3.1		0.7		0.9
08/09/97	0.8		0.7		0.4		0.5		0.5		1.5		1.5		0.8		0.8
08/10/97	0.7		0.8		0.5		0.8		0.8		2.0		2.7		8.1		5.8
08/11/97	0.8		0.9		0.8		0.7		0.7		1.8		1.8		10.5		10.7
08/12/97	0.9		0.9		0.8		0.7		0.7		2.3		2.0		20.9		12.2
08/13/97	1.0		1.1		0.8		0.7		0.7		4.9		7.2		10.9		7.3
08/14/97	0.7		0.8		0.5		0.7		0.8		1.5		1.8		4.5		3.8
08/15/97	0.8		0.9		0.8		0.8		0.7		3.2		4.3		5.1		5.4
08/16/97	0.9		1.0		0.8		0.8		0.8		2.1		4.0		31.1		23.5
08/17/97	0.7		0.8	(b)	0.4		0.8		0.8		1.9		2.0		1.7		1.7
08/18/97	0.7		N/A	(b)	0.4		0.5		0.8		1.0		2.8		1.4		1.7
08/19/97	0.7		0.8	(b)	0.5		0.8		0.8		1.2		1.8		8.5		5.4
08/20/97	0.8		0.5		0.5		0.7		0.7		1.4		1.9		7.1		5.5
08/21/97	0.8		0.5		0.5		0.7		0.8		1.8		1.9		7.1		8.5
08/22/97	0.8		0.8		0.4		0.8		0.8		0.9		0.9		2.7		2.8
08/23/97	1.0		0.8		0.8		0.9		0.7		1.4		1.8		4.7		8.2 (a)
08/24/97	1.0		0.4		0.8		0.8		0.8		1.9		1.8		8.2		N/A (a)
08/25/97	0.9		0.7		0.8		0.9		0.8		1.4		1.8		9.8		N/A (a)
08/26/97	0.7		0.9		0.4		0.7		0.5		1.5		1.0		1.8		N/A (a)
08/27/97	1.4		0.8		0.7		0.9		0.7		1.8		1.9		4.7		N/A (a)
08/28/97	1.2		0.5		0.7		1.0		0.8		1.9		2.3		7.4		N/A (a)
08/29/97	0.8		0.8		0.8		0.9	(b)	0.7		1.8		2.7		4.1		N/A (a)
08/30/97	0.8		0.9		0.4		N/A	(b)	0.7		1.5		1.8		3.8		N/A (a)

Monthly Statistics

	AMS 5	AMS 6	PILOT	AMS11	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE
Average:	0.8	0.8	0.5	0.7	0.8	1.7	2.4	5.8	5.0
Maximum:	1.4	1.1	0.8	1.0	0.8	4.9	7.2	31.1	23.5
Minimum:	0.5	0.4	0.4	0.5	0.5	0.7	0.9	0.5	0.8
Median:	0.7	0.8	0.5	0.7	0.8	1.5	2.0	4.4	1.7
Std. Dev:	0.2	0.2	0.1	0.1	0.1	0.8	1.3	8.3	5.0

- STANDARD LEGEND:**
1. "(a)" indicates edited data due to erroneous readings from the monitoring equipment.
 2. "(b)" indicates partial or complete data loss due to monitor malfunction.
 3. "(c)" indicates partial or complete data loss due to programming error in monitor.
 4. All values reported in pCi/L are non instrument background corrected.

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**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: JUNE
YEAR: 1997

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**K-65 SILO REPORT
RADON CONCENTRATIONS**

Summary of Continuous Monitoring Results

Report Date: 07/07/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
06/01/97	8.26E+06	8.45E+06	7.90E+06	1.90E+05	6.42E+06	6.56E+06	6.26E+06	1.04E+05
06/02/97	8.14E+06	8.41E+06	1.79E+06	4.31E+05	6.28E+06	6.47E+06	1.13E+06	3.33E+05
06/03/97	8.32E+06	8.52E+06	4.49E+06	2.99E+05	6.14E+06	6.40E+06	3.25E+06	2.63E+05
06/04/97	8.22E+06	8.43E+06	7.70E+06	1.34E+05	6.17E+06	6.35E+06	5.87E+06	8.30E+04
06/05/97	8.04E+06	8.43E+06	7.21E+06	2.80E+05	6.24E+06	6.44E+06	5.70E+06	1.32E+05
06/06/97	8.23E+06	8.49E+06	7.70E+06	1.27E+05	6.30E+06	6.44E+06	5.95E+06	6.82E+04
06/07/97	8.20E+06	8.43E+06	7.81E+06	1.23E+05	6.37E+06	6.49E+06	6.11E+06	5.15E+04
06/08/97	8.09E+06	8.27E+06	7.65E+06	8.05E+04	6.38E+06	6.52E+06	6.03E+06	5.90E+04
06/09/97	7.88E+06	8.16E+06	7.29E+06	2.20E+05	6.25E+06	6.45E+06	5.85E+06	1.37E+05
06/10/97	7.77E+06	8.23E+06	7.15E+06	3.15E+05	6.16E+06	6.39E+06	5.81E+06	1.10E+05
06/11/97	7.95E+06	8.29E+06	1.19E+05	6.62E+05	6.24E+06	6.42E+06	3.74E+06	2.16E+05
06/12/97	8.17E+06	8.59E+06	7.53E+06	2.68E+05	6.30E+06	6.47E+06	5.86E+06	1.09E+05
06/13/97	8.28E+06	8.67E+06	7.70E+06	2.07E+05	6.28E+06	6.49E+06	5.92E+06	1.24E+05
06/14/97	8.29E+06	8.65E+06	7.52E+06	2.69E+05	6.21E+06	6.44E+06	5.76E+06	1.46E+05
06/15/97	8.20E+06	8.78E+06	7.51E+06	4.09E+05	6.25E+06	6.53E+06	5.84E+06	1.40E+05
06/16/97	8.91E+06	9.28E+06	6.72E+06	3.70E+05	7.45E+06	8.04E+06	5.50E+06	5.11E+05
06/17/97	9.12E+06	9.28E+06	8.76E+06	1.23E+05	7.92E+06	8.08E+06	7.60E+06	7.73E+04
06/18/97	9.12E+06	9.32E+06	8.61E+06	1.47E+05	7.94E+06	8.07E+06	7.53E+06	8.51E+04
06/19/97	8.85E+06	9.32E+06	8.13E+06	3.44E+05	7.73E+06	8.06E+06	7.04E+06	2.45E+05
06/20/97	8.78E+06	9.18E+06	8.12E+06	2.82E+05	7.69E+06	8.07E+06	7.07E+06	2.75E+05
06/21/97	8.82E+06	9.18E+06	8.19E+06	2.53E+05	7.69E+06	8.12E+06	6.82E+06	2.65E+05
06/22/97	8.73E+06	9.22E+06	7.95E+06	3.42E+05	7.78E+06	8.14E+06	7.15E+06	2.31E+05
06/23/97	8.62E+06	9.17E+06	6.72E+06	4.00E+05	7.76E+06	8.18E+06	6.05E+06	2.75E+05
06/24/97	8.72E+06	9.17E+06	7.98E+06	3.09E+05	7.90E+06	8.29E+06	7.30E+06	2.43E+05
06/25/97	8.80E+06	9.20E+06	4.57E+06	3.90E+05	7.92E+06	8.29E+06	3.90E+06	3.52E+05
06/26/97	8.96E+06	9.26E+06	8.29E+06	2.23E+05	8.13E+06	8.41E+06	7.57E+06	1.73E+05
06/27/97	8.91E+06	9.48E+06	8.07E+06	3.99E+05	8.12E+06	8.56E+06	-7.82E+02	5.53E+05
06/28/97	8.98E+06	9.44E+06	8.31E+06	2.92E+05	8.26E+06	8.64E+06	7.66E+06	2.26E+05
06/29/97	9.04E+06	9.40E+06	8.22E+06	2.25E+05	8.35E+06	8.64E+06	7.62E+06	1.87E+05
06/30/97	9.02E+06	9.30E+06	8.37E+06	1.94E+05	8.36E+06	8.59E+06	7.76E+06	1.68E+05

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
06/03/97	8.75E+06	6.50E+06
06/05/97	7.98E+06	7.40E+06
06/11/97	7.60E+06	7.27E+06
06/12/97	8.84E+06	6.91E+06
06/18/97	1.19E+07	8.06E+06
06/19/97	1.10E+07	7.92E+06
06/23/97	1.02E+07	8.14E+07
06/25/97	1.08E+07	8.00E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

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ATTACHMENT C

REMOVAL ACTION STATUS REPORT

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

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Pilot Plant Sump	24	Closed	January 14, 1994	Remove liquid and sludge from the sump
Nitric Acid Rail Car	25	Closed	November 12, 1993	Remove residual contents from tank car and decontaminate and dispose of tank car
Asbestos Removal	26	Closed - Transferred to Post-ROD	May 22, 1997	Mitigate the potential for contaminant and migration of asbestos fibers
Management of Contaminated Structures	27	Closed - Transferred to Post-ROD	May 22, 1997	Management of contaminated structures
Fire Training Facility	28	Closed	July 11, 1995	Remove, decontaminate, dispose, treat or store contaminated structures, equipment, and soil from the former Fire Training Facility
Erosion Control of Inactive Flyash Pile; AKA: Temporary Nitrate Storage Tanks	29	Closed	March 2, 1994	Mitigate the threat of erosion induced slope failure and discharge of flyash to Paddy's Run
KC2 Warehouse Well	30	Closed	May 28, 1997	Minimize future groundwater contamination by intercepting contaminated seeps that drain from the South Field and Inactive Flyash Pile and infiltrate to the GMA
South Field and Inactive Flyash Piles Seepage Control Project	31	Closed	December 6, 1995	