



Department of Energy  
Ohio Field Office  
Fernald Environmental Management Project  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



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SEP 17 2002

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

DOE-0709-02

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> 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 AUGUST 1, 2002 THROUGH  
AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF  
SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30, 2002**

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 August 1, 2002 through August 31, 2002, including anticipated work for the period of September 1, 2002 through September 30, 2002. 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 (USEPA) 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: As Stated

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DOE-0709-02

Mr. James A. Saric  
Mr. Tom Schneider

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cc w/enclosures:

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

cc w/o enclosures:

R. Greenberg, EM-31/CLOV  
A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Shupe, HSI GeoTrans  
D. Carr, Fluor Fernald, Inc./MS2  
T. Hagen, Fluor Fernald, Inc./MS9  
B. Irvine, Fluor Fernald, Inc./MS65-2  
T. Poff, Fluor Fernald, Inc./MS65-2  
ECDC, Fluor Fernald, Inc./MS52-7

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2002 THROUGH  
AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF  
SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30,2002**

This report describes actions at the Fernald Environmental Management Project (FEMP) from August 1, 2002 through August 31, 2002 and anticipated work for the period of September 1,2002 through September 30, 2002. The monthly report has 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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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2002 THROUGH  
AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF  
SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30,2002**

**OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT**

August 2002

- Enforceable Milestones Completed
  - None
  
- Work Initiated/Continued/Completed
  - Loaded 19,047 tons of material from waste pits
  - Shipped 180 railcars (UT63, UT64 and UT65) of material for disposal at Envirocare

September 2002 (Anticipated)

- Enforceable Milestones To Be Completed
  - None
  
- Work To Be Initiated/Continued/Completed
  - Load 13,982 tons of material from waste pits
  - Ship 120 railcars (UT66 and UT67) of material for disposal at Envirocare

**OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND  
EXCAVATION PROJECT (Additional OU2 soils-related activities may be reported under  
OU5/Soils Characterization and Excavation Project)**

August 2002

- Enforceable Milestones Completed
  - None
  
- Work Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continued placement of impacted materials in Cells 2 and 3
    - Completed clay liner placement for the west half of Cell 4 and continued work on clay liner in west half of Cell 5
    - Continued Borrow Area Clay Screening
    - Completed Site preparation of liners for Cells 4 and 5
    - Continued Cells 4 and 5 geosynthetic liner installation
    - Continued Part 2 of remodeling of RIMIA for OSDF/SDFP relocation
    - Completed Direct Haul from Buildings 64 and 65

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2002 THROUGH  
AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF  
SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30, 2002**

- Continued placement of lime sludge material (spent and dried) that has been mixed with soil
- Continued Title III and CQC services for OSDF Construction Borrow Area
- Began placement of drainage layers in Cells 4 and 5 liners
- Began modifications in contractor's administrative area
  
- Soil Characterization and Excavation Project (SCEP)
  - Continued sampling beneath Plant 6 Pad as part of 3A/4A subsurface pre-design
  - Continued 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 Crushing/Breaking in Areas 3A and 4A
  - Continued design for Northern Pine restoration
  - Continued Area 6 (Solid Waste Landfill and Fire Training Facility) Title II Design and submitted IRDP to Agencies
  - Continued restoration work in Southern Waste Units
  - Continued Lime Sludge Ponds excavation
  - Began excavation of the Silos Project Treatment Facility Footprint
  - Continued maintenance of Organic Soil Stockpile
  - Continued the excavation of K-65 Trench
  - Began Area 7, Phase I and Area 8, Phase III Pre-certification PSP
  - Continued Pre-design WAC and FRL Attainment Sampling for Areas 3B/4B/5
  - Completed Area 3B/4B/5 Title I Design
  - Continued Area 3B/4B/5 Title II Design
  - Continued decontamination water sampling at Building 2/3
  - Completed sampling for WAC attainment at the two soil piles south of Building 68
  - Began debris removal of former Lay Down area in Area 2, Phase II
  - Began excavation of southeast corner of Plant 9 above WAC area
  - Began sampling Quonset Hut material

**September 2002 (Anticipated)**

- Enforceable Milestones To Be Completed
  - Complete Area 3B/4B/5 IRDP prior to September 30, 2002

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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- Work To Be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continue Title III Services and CQC Services for OSDF Construction and Borrow Areas, excavation/screening
    - Complete Cell 5 clay liner
    - Receive all stone for liners in Cells 4 and 5
    - Continue clay excavation/screening in Borrow Area
    - Continue Part 2 of remodeling of RIMIA for OSDF/SDFP relocation
    - Continue placement of impacted materials in Cells 2 and 3
    - Complete modifications in Contractor's Administration Area
    - Continue geosynthetics (GCL/GML) in Cells 4 and 5
    - Continue geosynthetic liner construction in Cells 4 and 5
    - Continue placement of drainage layers in Cells 4 and 5 liners
  - Soil Characterization and Excavation Project (SCEP)
    - Continue Incinerator Pad (10D) above WAC excavation
    - Complete Restoration Design for Northern Pines
    - Continue excavation of southeast corner of Plant 9 above WAC area
    - Continue breaking concrete in Areas 3A and 4A
    - Continue Plant 6 sump work
    - Continue Lime Sludge Ponds excavation
    - Continue restoration grading and stabilization in Southern Waste Units
    - Complete sampling beneath Plant 6 Pad as part of 3A/4A excavation control
    - Complete excavation of K-65 Trench
    - Continue Area 3B/4B/5 Title II Design and issue IRDP for DOE review
    - Submit Area 3B/4B/5 IRDP to the Agencies
    - Complete accelerated design for Borrow Area
    - Continue sampling for Area 3B/4B/5 AWAC PSP
    - Complete sample analysis of Solid Waste Landfill and Fire Training Facility
    - Complete sampling of Quonset Hut material
    - Initiate restoration work in Northern Pines
    - Continue Precertification activities in Area 7 Phase I
    - Continue Precertification activities in Area 8 Phase III
    - Begin Precertification activities in Area 9 Phase II

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

August 2002

- Enforceable Milestones Completed
  - None
  
- Work Initiated/Continued/Completed
  - Plant 2
    - Continued asbestos removal
    - Continued removal of equipment and systems in Extraction area
    - Continued glovebag and asbestos removal
    - Began final clean and lockdown in 2A, Denitration
  
  - Plant 3
    - Established building enclosure and vestibule preparation for 39A
    - Began lockdown survey and removal of exterior transite in Building 39A
    - Began T-94 breakdown and transport
  
  - Plant 4 & 5 Pipe Bridge & 5F
    - Continued asbestos abatement
  
  - General Sump
    - Continued to shear, size and load tanks and equipment
    - Completed structural demolition and debris loading of 18H
  
  - Building 53A
    - Completed building demolition activities on August 3, 2002
    - Completed debris loading activities on August 15, 2002
  
  - Pilot Plant
    - Continued general site preparation activities and installation of 5-plex control point trailer
    - Completed demolition and debris loading of 54B, Pilot Plant Shelter
  
  - Facilities Shutdown
    - Continued planning and procurement to replace steam heat source for Buildings 82A, 31, and 46
    - Completed all underground mechanical isolations for Area 4A with exception of two sanitary sewer lines
    - Continued underground electrical isolation work

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2002 THROUGH AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30,2002**

September 2002 (Anticipated)

- Enforceable Milestones To Be Completed
  - Submit Plant 6 Project Completion Report to Agencies by September 28, 2002
  - Submit Maintenance/Tank Farm Final Project Completion Report to Agencies by September 30, 2002
  
- Work To Be Initiated/Continued/Completed
  - Plant 2
    - Continue asbestos removal
    - Continue removal of equipment and systems in Extraction area
    - Continue glovebag and asbestos removal
    - Begin removal of exterior transite
  
  - Pilot Plant
    - Continue general site preparation
  
  - Plant 4 & 5 Pipe Bridge & 5 F
    - Continue asbestos abatement
  
  - Facility Shutdown
    - Continue planning and procurement to replace steam heat source for Buildings 82A, 31, and 46
    - Continue utility isolation

**OPERABLE UNIT 4 - SILOS PROJECT**

August 2002

- Enforceable Milestones Completed
  - None
  
- Work Initiated/Continued/Completed
  - Received comments from OEPA on the Silos 1 and 2 Warehouse, Remediation Facility Foundation, and Rail Spur construction information package
  - Prepared draft Explanation of Significant Differences for Silos 1 and 2
  - Reviewed draft responses to comments on AWR RD package with Agencies. Extended the date for submittal of the Response to Comments and draft Final RD package to September 6, 2002

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2002 THROUGH AUGUST 31, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF SEPTEMBER 1, 2002 THROUGH SEPTEMBER 30,2002**

- Demonstrated mockup testing of AWR project waste retrieval equipment at the Cold Test Loop facility in Oak Ridge
- Continued Silos 1 and 2 Accelerated Waste Retrieval (AWR) construction activity in preparation for November 1, 2002, startup of Radon Control System (RCS) Phase 1 Operation
- Continued fieldwork around Silo 4 in preparation for mockup of design for opening in the side of Silo 3; prepared final design/construction packages for Silo 3 remediation facility
- Continued soil excavation in the footprint for the Silos 1 and 2 Remediation Facility
- Initiated preparation of the RD package for the Silos 1 and 2 Remediation Facility
- Received technical comments from the OEPA on the Silo 3 RD package
- Submitted response to USEPA disapproval of the Silo 3 RD package, including revised milestone strategy for submittal of draft Proposed Plan, ROD Amendment, and draft final RD Package on August 15, 2002. Received approval of the proposed strategy from USEPA on August 22, 2002 establishing a milestone of August 30, 2002 for submittal of the draft revised Proposed Plan for Silo 3
- Submitted draft revised PP for Silo 3 to the Agencies on August 26, 2002

**September 2002 (Anticipated)**

- **Enforceable Milestones To Be Completed**
  - None
- **Work To Be Initiated/Continued/Completed**
  - Prepare draft Explanation of Significant Differences for Silos 1 and 2
  - Prepare responses to Agency technical comments on Silo 3 RD package
  - Submit draft Final Revised AWR Project RD package to the Agencies
  - Submit revised Remedial Action (RA) Work Plan for RCS Phase I Operation to the Agencies for review
  - Continue final construction and turnover to operations of RCS systems in preparation for the November 1, 2002, initiation of RCS Phase I Operations
  - Initiate Site preparation construction , including concrete removal/excavation in the interim Storage Area pad, for the Silo 3 remediation facility

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

August 2002

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for July 2002 to Ohio EPA on August 14, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Completed installation of Extraction Wells 33264 (EW-30), 33265 (EW-31) and 33266 (EW-32) completed to support the South Field Phase, Phase II Extraction System
  - Resumed installation of additional South Field Monitoring Wells
  - Completed installation of the three replacement Property Boundary injection wells

September 2002 (Anticipated)

- Enforceable Milestones To Be Completed
  - Submit monthly NPDES Discharge Monitoring Report for to Ohio EPA
  - Meet the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work To Be Initiated/Continued/Completed
  - Continue to perform maintenance/rehabilitation on injection and extraction wells
  - Complete drilling of injection/extraction and injection wells to support the South Field Phase II Extraction System
  - Complete installation of additional South Field Monitoring Wells
  - Begin installing pipelines and above grade infrastructure for the three replacement property boundary injection wells

**WASTE MANAGEMENT**

August 2002

- Enforceable Milestones Completed
  - None

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- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Consolidated aqueous waste from AWWT Campaign
  - Hazardous Waste Project
    - Completed shipment of non-hazardous, non-radiologically contaminated excess solid chemicals to Rumpke
    - Completed shipment of silver recovery solution to Safety-Kleen
    - Shipped 30 containers of labpack and unused chemicals to Heritage Environmental Services
  - Inorganic Treatment Project (ITP)
    - Received approval to ship IMAC waste to Envirocare
    - Completed mercury shipment to M&EC on August 15, 2002
  - Incinerator Liquids (Liquid mixed Waste Bulking Project)
    - Continued to await State of Tennessee Approval of Batch 12 application

September 2002 (Anticipated)

- Enforceable Milestones To Be Completed
  - Provide schedules for treatment of thorium mixed waste to OEPA by September 30, 2002
  - Complete shipment of Inorganic Treatment Project waste by September 20, 2002
- Work To Be Initiated/Continued/Completed
  - Inorganic Treatment Project (ITP)
    - Ship remaining mercury to M&EC
    - Ship lead acid batteries/shapes/debris to Envirocare
  - Incinerator Liquids (Liquid mixed Waste Bulking Project)
    - Await State of Tennessee approval of Batch 12 application
    - Begin shipment of Batch 12 to the TSCA Incinerator