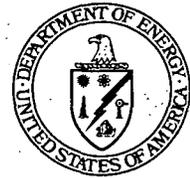




Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



4976

AUG 19 2003

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0479-03

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

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/
CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF JULY 1, 2003 THROUGH
JULY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF AUGUST 1, 2003
THROUGH AUGUST 31, 2003**

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 July 1, 2003 through July 31, 2003, including anticipated work for the period of August 1, 2003 through August 31, 2003. 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,

Glenn Griffiths
Director

FCP:Reising

Enclosure: As Stated

AUG 19 2003

Mr. James A. Saric
Mr. Tom Schneider

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DOE-0479-03

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cc w/enclosure:

N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SR-6J
V. Dastillung, FRESH
P. Dunn, FRESH
D. Sarno, FCAB
M. Cullerton, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
K. Johnson, OH/FCP
F. Bell, ATSDR
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D. Carr, Fluor Fernald, Inc./MS1
T. Hagen, Fluor Fernald, Inc./MS1
T. Poff, Fluor Fernald, Inc./MS65-2
ECDC, Fluor Fernald, Inc./MS52-7

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AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF JULY 1, 2003 THROUGH
JULY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF AUGUST 1, 2003
THROUGH AUGUST 31, 2003**

4976 :

This report describes actions at the Fernald Closure Project (FCP) from July 1, 2003 through July 31, 2003, including anticipated work for the period of August 1, 2003 through August 31, 2003. The 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.

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

July 2003

- Enforceable Milestones Completed
 - None

- Work Initiated/Continued/Completed
 - Loaded 19,803 tons of material from waste pits
 - Shipped three unit trains (UT88, UT90 and UT91) totaling 184 railcars containing 19,793 tons of material for disposal at Envirocare

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

- Work To Be Initiated/Continued/Completed
 - Load 19,798 tons of material from waste pits
 - Ship 180 railcars 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)

July 2003

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None

 - Soils Characterization and Excavation Project (SCEP)
 - Submitted Area 3A/4A Certification Design Letter (CDL)

- Work Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continued Title III and Construction Quality Control (CQC) services for OSDF Construction
 - Cell # 2 cap - Completed GCL and GML layers; completed Geotextile installation; started cover drainage layer

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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- Continued impacted material placement in Cell # 3, # 4, and # 5; continued transite placement in Cell # 5
- Cell # 6 - Completed compacted clay liner; started secondary Geosynthetic Clay Liner (GCL)/Geomembrane Liner (GML) installation
- Completed new water well construction
- Continued clay screening operation in Borrow Area

- Soils Characterization and Excavation Project (SCEP)
 - Continued Concrete Breaking in Area 4A
 - Continued excavation in Area 3A and 4A and Above-Waste-Acceptance-Criteria (AWAC) excavation in Area 4A
 - Continued concrete crushing operations for Area 3A stockpile
 - Completed Area 3B Utility Isolation Trench
 - Started Area 3B concrete breaking (Plant 1 Pad)
 - Continued maintenance of Organic Soil stockpile
 - Completed Area 3B/4B/5 Integrated Remedial Design Package (IRDP) Response to Comment
 - Continued Predesign Waste Acceptance Criteria (WAC) and Final Remediation Level) FRL Attainment sampling for Areas 3B/4B
 - Completed Area 2 Phase II Radium hot spot removal
 - Continued Sitewide Predesign/Excavation Control Project Specific Plan (PSP) development
 - Continued Stream Corridors Predesign PSP development
 - Continued Silo Area Predesign PSP development
 - Started Area 6 Phase I Certification sampling

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soils Characterization and Excavation Project (SCEP)
 - Submit Area 3A/4A CDL

- Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continue Title III services and CQC Services for OSDF Construction
 - Complete Cell # 2 cap cover drainage layer
 - Start Cell # 2 cap biointrusion barrier and choke stone layer
 - Continue impacted material placement in Cell # 3, # 4, and # 5
 - Continue transite placement in Cell # 5
 - Complete Cell # 6 liner secondary GCL/GML installation
 - Start and complete Cell # 6 liner secondary Geotextile installation
 - Start Cell # 6 liner secondary drainage layer
 - Continue clay screening operation in Borrow Area

 - Soils Characterization and Excavation Project (SCEP)
 - Continue concrete breaking in Area 4A
 - Continue excavation in Area 3A and Area 4A and AWAC excavation in Area 4A

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- Continue concrete crushing operations for Area 3A stockpile
- Continue Area 3B concrete breaking (Plant 1, Pad)
- Start Area 3B excavation, Category 2 material and AWAC material
- Start organic treatment of soil in Quonset Hut # 1
- Continue Predesign WAC and FRL Attainment sampling for Areas 3B/4B
- Submit Area 2 Phase II IRDP Rev. B
- Submit Area 2 Phase II CDL/PSP
- Complete Area 6 Phase I certification sampling
- Start Area 8 Phase III North Certification sampling
- Submit Final Area 9 Phase II CDL/PSP
- Complete Sitewide Predesign/Excavation Control PSP development
- Complete Stream Corridors Predesign PSP development
- Complete Silo Area Predesign PSP development
- Complete SP7/OU1 Predesign characterization

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

July 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Plants 2,3,8, General Sump (GS) (Task 1)
 - 2A - General - process piping inspections
 - Digestion/Denitration - released clean, exterior transite removal
 - Extraction - equipment removal; release/clean and survey
 - 3E - Interior transite removal; piping removals
 - 3J - Material processing
 - 8A - Released clean; process and non-process equipment/system removal; exterior tanks and piping removal; acid brick removal; thorium equipment removal; sbestos abatement; interior transite removal on 1st and 2nd floors; beryllium contamination removal; Hazardous Waste Management Unit (HWMU) #14 - rinsed and sampled interior components of Box Furnace, results were below closure guidance limits, allowing components to be dismantled; ; thorium equipment removal
 - 8G - Exterior transite removal completed July 17; structural demolition completed July 18; debris loadout completed July 19
 - General Sump - Material processing
 - Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal; asbestos abatement wash/lockdown/release SE and SW components
 - Pilot Plant (Task 3)
 - Building 13A - Transite removal
 - Building 13D - Equipment/system removal
 - Building 54A - Transite removal
 - Building 54A south - Shear, size and load equipment from Plants 2, 3, and 8 temporarily staged in building

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- Utility Redistribution/Facilities Shutdown
 - Completed deep well re-feeds and Meteorological tower re-feed
 - Installed new radio transmitter and antenna for Channel 6
 - Continued redistribution required for the Liquid Storage Complex
 - Began Administration Complex redistribution
 - Began Plant 1 Pad mechanical/electrical isolations; continued isolations of excavation areas 3B and 4B

- Plant 1 Pad
 - General: completed clearing of Plant 1 Pad
 - Building 1B - completed shearing
 - Building 56A - Chemicals, property, and equipment removed; foamboard insulation removed and structural demolition completed; debris loadout completed
 - Building 30A - Chemicals, property, and equipment removed; interior transite and gutter debris completed, floor tile and mastic removal; exterior transite lockdown completed and removal begun
 - Tension Support Structures - completed demolition, size reduction and loadout of TS-4, -5, -6, -10, and -11
 - Building 71 - Began preparation and demolition

- Liquid Storage
 - Building 26A - Removed asbestos-containing expansion joint
 - Building 30/45 - Incidental cleanup, removal of light bulbs and ballasts; transite and conduit removal; completed interior demolition
 - Building 80 - Temporary power installation; vacuum cleaning completed; east (thorium) side released to "controlled area"; begun lockdown on west (uranium) side

- Plant 2 Pipe Bridge
 - Completed demolition of the 2nd Street bridge between "A" and "B" Streets; working on abatement along 1st Street and pipe removal along 1st Street and "B" Street; continued non-asbestos pipe removal and structural steel removal on 1st Street

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None

- Work To Be Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1)
 - 2A - General: process piping inspections;
 - Digestion/Denitration - exterior transite removal
 - Extraction - release clean, lockdown and survey; exterior roof asbestos removal; RUPP tent piping and equipment dismantlement
 - 2H - Begin demolition
 - 3A - Debris and material removal
 - 3E - Release clean; interior cleanup and interior transite removal Interior transite removal; piping removals

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF JULY 1, 2003 THROUGH JULY 31, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF AUGUST 1, 2003 THROUGH AUGUST 31, 2003

- 3J - Material processing
- 8A - Interior transite removal; exterior tanks and piping removal; exterior transite removal
- General Sump - Material processing
- Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal
- Pilot Plant (Task 3)
 - Building 13D - Equipment/system removal
 - Building 54A south - Shear, size and load equipment from Plants 2, 3, and 8
- Utility Redistribution/Facilities Shutdown
 - Continue redistribution required for the Liquid Storage Complex
 - Continue Administration Complex redistribution
 - Complete isolations of excavation area 3B, continue isolation of 4B

OPERABLE UNIT 4 - SILOS PROJECT

July 2003

- Enforceable Milestones Completed
 - Submitted draft Record of Decision (ROD) Amendment for Silo 3 to the USEPA/OEPA for review on July 14 (7/30/03 milestone)
 - Submitted Remedial Action Work Plan for Silos 1 and 2 Waste Retrieval Operations to the USEPA/OEPA for review on July 17 (8/1/03 milestone)
- Work Initiated/Continued/Completed
 - Submitted draft Explanation of Significant Differences (ESD) for Silos 1 and 2 to USEPA/OEPA for review July 14
 - Received draft comments on the ESD for Silos 1 and 2 and the ROD Amendment for Silo 3 from the USEPA
 - Provided the proposed design of the truck & trailer staging areas to support direct truck shipment of treated Silos 1 and 2 material to USEPA/OEPA for review
 - Submitted the Silos 1 and 2 Dome Penetration and Riser Installation Plan to USEPA/OEPA for review and received comments from OEPA. Continued development of detailed procedures and methodologies
 - Initiated preparation of the revised Silo 3 Remedial Design Package, incorporating the design modifications resulting from the remedy outlined in the ROD Amendment
 - Continued Phase 1 operation of the Radon Control System
 - Completed erection of the retrieval bridges over Silos 1 and 2; continued construction of the waste retrieval system piping and equipment
 - Continued construction of the Silos 1 and 2 and Silo 3 Remediation facilities

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit RA Work Plan for Silos 1 and 2 Waste Retrieval Operations by August 1, 2003 (completed on July 17, 2003).

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- Work To Be Initiated/Continued/Completed
 - Receive final comments on the ESD for Silos 1 and 2 and the ROD Amendment for Silo 3 from the USEPA and OEPA. Develop comment responses and final documents
 - Respond to OEPA and USEPA comments on the Silos 1 and 2 Dome Penetration and Riser Installation Plan; finalize detailed procedures and methodologies
 - Complete draft revised Silo 3 Remedial Design Package, issue for review in preparation for submittal to OEPA/USEPA
 - Continue Phase 1 operation of the Radon Control System
 - Continue construction of the Silos 1 and 2 waste retrieval system piping and equipment
 - Continue construction of the Silos 1 and 2 and Silo 3 Remediation facilities

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

July 2003

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for May to the OEPA on July 17
 - Submitted the NPDES Noncompliance Report for June 2003 to the OEPA on July 17
- Work Initiated/Continued/Completed
 - Completed construction activities for the South Field Extraction System Phase II Groundwater Restoration Module on July 23
 - Completed tie-in of replacement Extraction Well 21A on July 28
 - Began operation of the South Field Extraction System Phase II Groundwater Restoration Module on July 24; the injection wells component of the Phase II system began July 26.
 - Continued treatment plant ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits
 - Maintained compliance with the 30 ppb monthly average uranium limit for discharges to the Great Miami River the monthly average uranium concentration for July was 27.2 ppb.
 - Continued implementing measures to mitigate the effects of high total dissolved solids (TDS) wastewater on the Advanced Waste Water Treatment (AWWT) Phase II system
 - Maintained groundwater extraction rate at the desired rate in most of the extraction wells
 - Continued re-injection at rates up to 1200 gallons per minute during most of the month
 - Continued direct push sampling in the off-property portion of the South Plume

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA

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- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells.
 - Continue to operate groundwater extraction system at flow rates necessary to maintain regulatory discharge limits.
 - Continue treatment plan ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits.

WASTE MANAGEMENT

July 2003

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Incinerator Liquids
 - Received confirmation of the July 8 approval of Batch 13 by the State of Tennessee. Initially scheduled Batch 13 shipment activities to commence on July 25 with completion of the third shipment to the Oak Ridge TSCA Incinerator (TSCAI) scheduled for August 15. Batch 13 shipment activities have been delayed by TSCAI due to completion of DOE tanker trailer certifications. Batch 13 shipment activities are now scheduled to commence on August 17 with completion of the third shipment on September 8 by arrival at TSCAI.
 - Hazardous Waste Project
 - Completed the July 1 shipment of 110 excess clean and contaminated compressed gas cylinders to the Integrated Environmental Services, Inc. treatment facility at Oak Ridge, Tennessee.
 - Sample Disposition
 - Opened/inventoried 11 containers and processed 53 containers.
 - Heritage Environmental field screened 414 unknown liquid samples and five 5-gallon cans of liquid. Based on data submitted, these liquid wastes were approved for disposal through AWWT. All unknown liquid samples are currently completed.
 - Waste Minimization/Pollution Prevention
 - Completed the July 16 Safety-Kleen Corp. photochemical wastes shipment from Springdale.
 - Completed the July 22 collection of cans from the soda can sealand located at TS-8. A total of \$298.53 (based on 963 pounds of aluminum cans) was donated to the Harrison High School Physics Fund.
 - Organic Treatment Project (OTP)
 - Completed processing and packaging of 98 OTP containers for shipment. Continued development of inventory release documents for remaining OTP inventory.
 - Vapor Thermal-Desorption (VTD) Shipment 3 (46 containers) left the site for Envirocare on June 30. VTD Shipment 4 (3 sealands) left the site for

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Envirocare on July 10. Finalized inventories for VTD Shipments 7 and 8.
Continued identification of inventories for later VTD shipments.

- Inorganic Treatment Project
 - On July 24 transferred aqueous waste from 4 containers (3,152 pounds) of rinseate generated from the packaging and processing of the 4 sulfuric acid containers to the AWWT for treatment.
 - Macroencapsulation - No activity this week
 - Soils, Sludges, Debris - Completed processing and packaging of 20 containers of inorganic, low concentration organic waste streams in the OTP that are destined for shipment to WCS, Inc. Completed packaging of 102 of 171 containers to date.

August 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Incinerator Liquids
 - Initiate Batch 13 shipments on August 17 with Shipment 1 DOE tanker trailer pickup at TSCAI. Issue the Batch 13 waste transfer work package. Continue planning for Batch 14 inventory and bulking operations activities
 - Sample Disposition
 - Complete inventory of the estimated 25 containers not on the SDP inventory or located in SWIFTS. Once an inventory has been completed, each container will be opened, a visual will be completed and the sample containers will be inventoried as required for disposal.
 - Waste Minimization/Pollution Prevention
 - Complete recycle/disposition activities for the 5 sealands of used tires at the Building 82 staging area
 - Organic Treatment Project
 - Complete identification of inventories for later VTD shipments.
 - Complete inventory releases required to package remaining Mixed Waste Project (MWP) inventory. Complete work packages to process & package the remaining OTP inventory.
 - Inorganic Treatment Project
 - Complete activities for the 4 sulfuric acid containers to ship containers off-site for disposition. Finalize remaining STP inventory for off-site shipments in August and September to meet the ITP 9/30/03 Site Treatment Plan (STP) milestone.
 - Macroencapsulation - Treatment of Envirocare lead waste has been completed. Activities to complete disposal are in process.
 - Soils, Sludges, Debris - Ship remaining WCS-8 containers to WCS.
 - Mercury - Initiate planning for inorganic mercury campaign IMER 1003.

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GLOSSARY

AWAC	Above-Waste-Acceptance-Criteria
AWWT	Advanced Waste Water Treatment System
CDL	Certification Design Letter
CQC	Construction Quality Control
ESD	Explanation of Significant Differences
FRL	Final Remediation Level
GCL	Geosynthetic Clay Liner
GML	Geomembrane Liner
IRDP	Integrated Remedial Design Package
OSDF	On-Site Disposal Facility
PSP	Project Specific Plan
RFD	Request for Disposal
ROD	Record of Decision
SCEP	Soils Characterization and Excavation Project
SCP&RD	Shipping Classification & Packaging Compliance Requirements Documents
STP	Site Treatment Plan
TSCAI	TSCA Incinerator
UT	Unit Train
VTD	Vapor Thermal Desorption
WAC	Waste Acceptance Criteria
WWDR	Waste Water Discharge Request
XRF	X Ray Fluorescence