



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
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OCT 15 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-0015-04

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

Dear Mr. Saric and Mr. Schneider:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/
CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF SEPTEMBER 1, 2003
THROUGH SEPTEMBER 30, 2003, AND QUARTERLY REPORT FOR JULY 1, 2003
THROUGH SEPTEMBER 30, 2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
OCTOBER 1, 2003 THROUGH OCTOBER 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 September 1, 2003 through September 30, 2003, and Quarterly Report for July 1, 2003 through September 30, 2003, including anticipated work for the period of October 1, 2003 through October 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).

OCT 15 2003

Mr. James A. Saric
Mr. Tom Schneider

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

Sincerely,



FCP:Reising

Glenn Griffiths
Acting Director

Enclosure: As Stated

cc w/enclosure:

N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SR-6J
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AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
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F. Bell, ATSDR
M. Shupe, HIS GeoTrans
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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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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This report describes actions at the Fernald Closure Project (FCP) from September 1, 2003 through September 30, 2003, and Quarterly Report for the period of July 1, 2003 through September 30, 2003, including anticipated work for the period of October 1, 2003 through October 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. Effluent radionuclide and radon data for the period are posted on the IEMP Data Information Site and will be reported in the IEMP Midyear Data Summary Report and the Site Environmental Report.

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

July 2003

- Enforceable Milestones Completed
 - None due

- 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

- Enforceable Milestones Completed
 - None due

- Work Initiated/Continued/Completed
 - Loaded 23,677 tons of material from waste pits
 - Shipped 246 railcars, 26,471 tons (UT91, UT92, UT93 and UT94) of material for disposal at Envirocare

September 2003

- Enforceable Milestones Completed
 - None due

- Work Initiated/Continued/Completed
 - The Draft Final Proposed Plan for an Amendment to the OU1 ROD was released by DOE for formal public comment from September 17 until October 17
 - Loaded 18,620 tons of material from waste pits
 - Shipped 121 railcars, 13,024 tons (UT95 and UT96) of material for disposal at Envirocare

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October 2003 (Anticipated)

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- Enforceable Milestones To Be Completed
 - None due
- Work To Be Initiated/Continued/Completed
 - Prepare response to public comments (if required) on the Draft Final Proposed Plan for an Amendment to the OU1 ROD following closure of the public comment period October 17, and begin preparation of the ROD Amendment.
 - Load 20,992 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 due
 - 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
 - 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

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- 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

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None due
 - 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 CQC services for OSDF Construction
 - Completed Cell # 6 Liner secondary GCL/GML installation
 - Started and completed Cell # 6 Liner secondary Geotextile installation
 - Started and completed Cell # 6 Liner secondary drainage layer
 - Started Cell # 6 Liner primary GCL/GML installation
 - Completed Cell # 2 cap cover drainage layer
 - Started and completed Cell # 2 cap biointrusion barrier and choke stone
 - Started and completed Cell # 2 cap granular fill
 - Started Cell # 2 cap vegetative soil layer
 - Continued transite placement in Cell # 5
 - Continued impacted material placement in Cell # 3, # 4, and # 5
 - 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 AWAC excavation in Area 4A
 - Continued concrete crushing operations for Area 3A stockpile
 - Continued Area 3B concrete breaking (Plant 1 Pad)
 - Started Area 3B excavation, Cat 1 and Cat 2
 - Started organic treatment of soil in Quonset Hut # 1
 - Submitted Sitewide Predesign/Excavation Control PSP
 - Continued Stream Corridors Predesign PSP development
 - Continued Silo Area Predesign PSP development
 - Submitted Area 1 Phase IV excavation plan
 - Submitted Area 2 Phase II IRDP Rev. B
 - Continued Area 6 Phase I Certification sampling
 - Completed OU1 Predesign characterization

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September 2003

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None due
 - Soils Characterization and Excavation Project (SCEP)
 - None due
- Work Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continued Title III and CQC services for OSDF Construction
 - Completed Cell # 6 Liner primary GCL/GML installation
 - Started Cell # 6 liner primary Geotextile installation
 - Started Cell # 6 liner primary drainage layer
 - Completed Cell # 2 cap vegetative soil layer
 - Started and completed Cell # 2 cap topsoil layer
 - Continued transite placement in Cell # 5
 - Continued impacted material placement in Cell # 3, # 4, and # 5
 - Continued clay screening operation in Borrow Area
 - Soils Characterization and Excavation Project (SCEP)
 - Completed Concrete Breaking in Area 4A
 - Continued excavation in Area 3A and 4A
 - Completed AWAC excavation in Area 4A
 - Continued concrete crushing operations for Area 3A stockpile
 - Continued Area 3B concrete breaking (Plant 1 Pad)
 - Continued Area 3B excavation and started excavation of AWAC
 - Continued organic treatment of soil in Quonset Hut # 1
 - Continued Stream Corridors Predesign PSP development
 - Continued Silo Area Predesign PSP development
 - Completed Area 6 Phase I Certification sampling
 - Submitted the draft IRDP for Area 6 OU1 Stockpile Area
 - Completed Area 8 Phase III North Certification sampling

October 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF)
 - None due
 - Soils Characterization and Excavation Project (SCEP)
 - None due
- Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continue Title III services and CQC Services for OSDF Construction
 - Complete Cell # 6 liner primary Geotextile installation
 - Complete Cell # 6 liner primary drainage layer
 - Start and complete Cell # 6 liner filter Geotextile installation

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- Start and complete Cell # 2 seeding and erosion mat installation
- Continue transite placement in Cell # 5
- Complete impacted material placement in Cell # 3
- Continue impacted material placement in Cell # 4 and # 5
- Complete Borrow Area clay screening operation for this construction season

- Soils Characterization and Excavation Project (SCEP)
 - Complete excavation in Area 3A and Area 4A
 - Complete concrete crushing operations for Area 3A stockpile
 - Complete Area 3B concrete breaking (Plant 1 Pad)
 - Continue Area 3B concrete breaking other than Plant 1 Pad
 - Continue Area 3B excavation, Cat 1, Cat 2, and AWAC
 - Start Area 4B site prep
 - Start Area 4B utility isolation trench and K65 utility trench Phase II
 - Start Solid Waste Landfill excavation
 - Resume Northern Pines planting and start wetland mitigation Phase II grading
 - Continue organic treatment of soil in Quonset Hut # 1
 - Submit Area 2 Phase II CDL/PSP
 - Start Area 6 Certification Report
 - Submit Final Area 9 Phase II CDL/PSP
 - Submit Stream Corridors Predesign PSP
 - Continue Silo Area Predesign PSP development

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

July 2003

- Enforceable Milestones Completed
 - None due

- 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; asbestos 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

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- 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

- Utility Redistribution/Facilities Shutdown
 - Completed deep well re-feeds and Meteorological tower re-feed
 - Installed new radio transmitter and antenna for Channel 6
 - Continued redistributions 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

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August 2003

- Enforceable Milestones Completed
 - None due

- Work Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1)
 - 2A -General - process piping inspections
 - Digestion/Denitration - exterior transite removal
 - Extraction - Clean release, lockdown and survey; exterior roof asbestos removal; RUPP tent piping and equipment dismantlement
 - 2H - Began clean-up
 - 3A - Debris and material removal; Removal of interior transite; encapsulation of exterior transite
 - 3E - Clean release; interior cleanup and interior transite removal; piping removals; encapsulation for release survey
 - 3J - Material processing
 - 8A - Interior transite removal; exterior tanks and piping removal; exterior transite removal; release clean; thorium and beryllium equipment/systems dismantlement
 - General Sump - Material processing

- Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal

- Pilot Plant (Task 3)
 - Building 13D - Pilot Plant thorium tank farm demolition completed 8/15
 - Building 54A south - Shearing, sizing and loading equipment from Plants 2, 3, and 8

- Utility Redistribution/Facilities Shutdown
 - Continued redistributions required for the Liquid Storage Complex
 - Continued Administration Complex redistribution
 - Continued isolations of excavation areas 3B and 4B
 - Plant 1 Pad utility isolations ongoing

- Plant 1 Pad
 - Building 1B - completed loadout of debris 8/13
 - 30A - Floor tile and mastic removal ongoing; exterior transite removal ongoing
 - Building 71 - Demolition completed 8/13; loadout completed 8/21

- Liquid Storage
 - Building 26B (West Water Tower) - Imploded 8/23; loadout completed 8/25
 - Building 30/45 - Transite and conduit removal completed; demolition completed 8/21; loadout completed 8/26
 - Building 80 - Lockdown on west (uranium) side completed; demolition completed 8/25; loadout completed 8/28

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- Plant 2 Pipe Bridge
 - Continued abatement along 1st Street and pipe removal along 1st Street and "B" Street (double wrapping and loadout); continued non-asbestos pipe removal and structural steel removal on 1st Street; completed demolition of pipe rack run to Building 30A

September 2003

- Enforceable Milestones Completed
 - None due

- Work Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1)
 - 2A - Digestion/Denitration - Structural demolition completed on 9/14
 - - Extraction - Exterior transite removal; complete release clean, lockdown and survey; exterior roof asbestos removal; RUPP tent piping and equipment dismantlement
 - 2B - Exterior ACM transite removal completed; began D&D preparation
 - 2C - Began D&D preparation
 - 2H - Continued cleanup and started demolition work
 - Plant 2 Pipe Bridge (WISE subcontract) - Completed 1st Street asbestos abatement and asbestos pipe removal; on 9/26 began shearing activities on the north corner of AWWT, working toward 1st Street
 - 3A - Removal of interior transite and encapsulation of exterior transite; began structural demolition on 9/9
 - 3E - Encapsulation for release survey; completed exterior transite removal; began structural demolition on 9/22
 - 3J - Material processing
 - 8A - Completed clean release, equipment/systems dismantlement and interior transite removal; completed exterior tanks and piping removal; completed exterior transite removal; began demolition on 9/15
 - General Sump - Material processing
 - 20A - Structural demolition completed on 9/24; loadout completed 9/25
 - 22B (Storm Sewer Lift Station) - Completed demolition on 9/30

 - Plant 1 Pad
 - Building 30A/30D - Completed exterior transite removal; completed structural demolition on 9/9; completed loadout on 9/11

 - 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/piping from Plants 2, 3, and 8

 - Utility Redistribution/Facilities Shutdown
 - Completed redistributions required for the Liquid Storage Complex

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- Continued Administration Complex redistribution
- Continued isolations of excavation areas 3B and 4B

October 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None due
- Work To Be Initiated/Continued/Completed
 - General - Fluor will begin to self-perform the D&D work, which was previously subcontracted to Mactec.
 - Plants 2,3,8,GS (Task 1)
 - 2A - Debris loadout. RUPP Tent piping and equipment dismantlement.
 - 2B - Exterior transite removal; complete structural demolition
 - 2C - Exterior transite removal; complete structural demolition
 - 2H - Continue cleanup
 - Plant 2 Pipe Bridge (WISE subcontract) - Shearing activities on the north corner of AWWT, working toward 1st Street
 - 3A - Complete removing interior transite; complete structural demolition
 - 3E - Complete exterior transite removal; complete structural demolition
 - 3J - Material processing
 - 3L - Complete structural demolition
 - 8A - Complete exterior transite removal; complete structural demolition
 - General Sump - Material processing
 - Building 22B - Complete loadout
 - Lab (Task 6)
 - Building 15A - Building maintenance and maintain seal; wash/lockdown/release SW and SE areas; wash/lockdown CE and CW areas
 - Pilot Plant (Task 3)
 - Building 13A - Interior transite removal; equipment/system removal; acid brick removal; wet side preparation for exterior transite removal
 - Building 54A south - Shear, size and load equipment/piping from Plants 2, 3, and 8
 - Building 54A north - Asbestos abatement and interior transite removal

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

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- 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; 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

- Enforceable Milestones Completed
 - Submitted Remedial Action Work Plan for Silos 1 and 2 Waste Retrieval Operations to the USEPA/OEPA for review on 7/17/03 (8/1/03 milestone)
- Work Initiated/Continued/Completed
 - Received approval of the draft Explanation of Significant Differences (ESD) for Silos 1 and 2. Issued the draft Final ESD for 30-day public comment period beginning 8/27/03; published notices of availability in local newspapers and sent notification to key stakeholders. Scheduled public hearing for 9/9/03
 - Received approval of the draft Record of Decision (ROD) Amendment for Silo 3 from the USEPA and OEPA. Prepared final ROD and initiated the final DOE approval and signature process in preparation for submittal to USEPA for signature.
 - Responded to OEPA and USEPA comments on the Silos 1 and 2 Dome Penetration and Riser Installation Plan, and received approval of the revised plan; developed detailed procedures documentation in preparation for actual dome penetration and riser installation.
 - Received OEPA approval of the Remedial Action (RA) Work Plan for Silos 1 and 2 waste retrieval operations. Prepared revised Plan to address to USEPA comments.
 - Continued preparation of draft revised Silo 3 Remedial Design Package.
 - Continued Phase 1 operation of the Radon Control System.
 - Continued construction of the Silos 1 and 2 waste retrieval system piping and equipment.
 - Continued construction of the Silos 1 and 2 and Silo 3 Remediation facilities.

September 2003

- Enforceable Milestones Completed
 - None due

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- Work Initiated/Continued/Completed
 - Held public hearing (9/9/03) and completed public review (9/26/03) of the draft final ESD for Silos 1 and 2. Comments were received from two members of the public. Preparation of the responsiveness summary and final ESD is in process.
 - Received final DOE and USEPA approval of the ROD Amendment for Silo 3 on 9/24/03
 - Completed Silos 1 and 2 dome penetration and riser installation.
 - Issued draft revised Silo 3 Remedial Design /Remedial Action Package for internal review in preparation for submittal to USEPA/OEPA.
 - Continued Phase 1 operation of the Radon Control System.
 - Continued construction of the Silos 1 and 2 waste retrieval system piping and equipment.
 - Continued construction of the Silos 1 and 2 and Silo 3 Remediation facilities.

October 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit Silo 3 Remedial Design (RD)/Remedial Action (RA) Package to USEPA/OEPA to satisfy milestones for a revised RD Package (10/24/03) and RA Work Plan (10/6/03) for the Silo 3 Project.
- Work To Be Initiated/Continued/Completed
 - Submit Silos 1 and 2 Heel and Decant Sump Tank Sludge Removal Plan to USEPA/OEPA for review.
 - Submit Responsiveness Summary and Final ESD for Silos 1 and 2 to USEPA/OEPA for review and approval.
 - 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.

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- 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

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for June to the OEPA on August 19.
- Work Initiated/Continued/Completed
 - Completed construction activities for the South Field Extraction System Phase II
 - 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 August was 26.7 ppb.
 - Continued implementing measures to mitigate the effects of high TDS wastewater on the AWWT Phase II treatment system.
 - August was the first full month with the South Field Phase II Aquifer restoration Module operating. The 4 extraction wells, 2 injection wells and the injection basin all came online in late July.
 - Maintained groundwater extraction rate at the desired rate in most of the extraction wells. Groundwater pumping rates exceeded 6200 gallons per minute combined from all the groundwater restoration modules.
 - Continued re-injection at rates up to 1425 gallons per minute during most of the month.
 - Continued direct push sampling in the South Field area and in the off-property portion of the South Plume.

September 2003

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for May to the OEPA on September 18.
 - Submitted NPDES Noncompliance Report for August to the OEPA on September 19.
- Work Initiated/Continued/Completed
 - Began installation of the replacement heating system for AWWT. By the end of the month the project was approximately 80 percent complete.

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- Submitted a letter to DOE requesting a revision to the monthly injectate sample analyte list (in support of the groundwater re-injection program) on September 10. DOE forwarded the request to EPA and Ohio EPA in a letter dated September 23.
- Submitted the Second Quarter 2003 Re-Injection Operating Report to DOE on September 23.
- 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 September was 26.3 ppb.
- Heavy rain on August 31, September 1, and September 2 caused a storm water treatment bypass to occur from September 2 – September 4. The bypass was successful in preventing an overflow of the Storm Water Retention Basin. Calculations indicate the bypass raised the uranium concentration in the Great Miami River (GMR) from 1ppb (background) to 1.05 ppb during the bypass. The risk-based health protective level is 530 ppb.
- Above-normal precipitation (5.58 inches actual versus 2.74 inches average) for the month of September and water use for D&D and Dust Suppression resulted in unusually high treatment requirements for water collecting in the Storm Water Retention Basin. Approximately 28 million gallons were pumped out of the basin for treatment during September (Compared to 19 million gallons in August).
- Due to the storm water bypass, for about half of the month the groundwater extraction rate had to be reduced and groundwater re-injection was curtailed. These measures were necessary to maintain compliance with the 30 ppb monthly average uranium discharge limit (for discharges to the GMR).
- As of the end of September the pounds of uranium contained in the discharges to the GMR for the year totaled 424.5 pounds. This leaves 175.5 pounds remaining until the 600-pound annual uranium discharge limit is reached. Groundwater restoration pumping may have to be reduced later this year to stay under the 600-pound annual discharge limit.
- Continued direct push sampling in the South Field area and completed the South Plume Optimization Phase II direct push sampling the off-property portion of the South Plume.

October 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA
- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells.
 - Continue to operate groundwater extraction and re-injection systems at flow rates necessary to maintain regulatory discharge limits.
 - Continue treatment plant ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits.
 - Begin installation of the Great Miami Aquifer monitoring wells in support of the leak detection program for Cell 7 of the OSDF. Installation of these wells is contingent upon the availability of funding.

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WASTE MANAGEMENT

July 2003

- Enforceable Milestones Completed
 - None due

- 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.
 - Vacuum Thermal Desorption (VTD) Shipment 3 (46 containers) left the site for Envirocare on June 30. VTD Shipment 4 (3 sealands) left the site for 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.

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- 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

- Enforceable Milestones Completed
 - Inorganic Treatment Project - none due
- Work Initiated/Continued/Completed
 - Incinerator Liquids
 - Completed the Batch 13 shipping paperwork and TSCAI shipping coordination for the three Batch 13 shipments to TSCAI. Batch 13, Shipment 1 (35,119 pounds) was transferred into the TSCAI DOE tanker trailer on 8/20 and shipped to TSCAI on 8/22. Batch 13, Shipment 2 (30,519 pounds) was transferred into the TSCAI DOE tanker trailer on 8/26 and shipped to TSCAI on 8/28. The Batch 13, Shipment 3 TSCAI DOE tanker trailer will be picked up at TSCAI on 9/5 for delivery to the site.
 - Confirmed the maximum extent of Batch 14 inventory prior to inventory submittal for evaluation/release for Batch 14 bulking activities.
 - 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
 - Completed opening and unpacking all the containers from the original base line inventory; inventoried the remaining drums/containers in Building 68 that were not part of the original inventory. A total of 31 containers were added to the project. A punch list has been created to have the project completed by September 30, 2003.
 - Organic Treatment Project (OTP)
 - Received notification Envirocare had completed treatment of Vacuum Thermal Desorption (VTD) System Operability Test (SOT) wastes on 8/8/03. Completed processing and packaging of 28 OTP containers for shipment. Continued identification of inventories for later VTD shipments.
 - Inorganic Treatment Project
 - Finalized remaining STP inventory for off-site shipments in August and September to meet the ITP 9/30/03 STP milestone.
 - Shipped 2 ITP STP containers of mercury waste to M&EC on 8/28.
 - Completed processing and packaging of 75 containers of inorganic, low concentration organic waste streams in the Organic Treatment Project (OTP) that are destined for shipment to WCS.
 - Completed packaging of 179 containers to date. All ITP 9/30/03 STP inventory has been packaged.

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September 2003

- Enforceable Milestones Completed
 - Inorganic Treatment Project – (Site Treatment Plan Milestone – 9-30-03 - 265 total containers) - Completed shipment of the remaining containers.
 - Incinerator Liquids – (Site Treatment Plan Milestone - TSCA Batch 13 – 9-30-03 – 3 shipments) - Completed shipment of Batch 13 on 9/10.

- Work Initiated/Continued/Completed
 - Incinerator Liquids
 - The last shipment of Batch 13 liquids (Shipment #3 totaling 30,359 pounds) was transferred into the TSCAI DOE tanker trailer on 9/8 and shipped to TSCAI on 9/10.
 - Began characterization of Current Batch 14 inventory (97 containers); approved 37 containers for bulking. Initiated Batch 14 bulking with 17 containers on 9/30.

 - Sample Disposition
 - Completed unpacking, assessing, and sorting all remaining samples. The Sample Disposition Project is now complete (a total of 538 containers have been processed).
 - The Silo Project requested most of the SDP equipment and supplies be transferred to the new Silo Lab once the SDP is completed.
 - The SDP developed a plan with MC&A for processing all the required documentation for the containers to be moved out of Bldg. 68.
 - Building 68 was turned over to D&D on 10/1.

 - Organic Treatment Project
 - Received Envirocare's VTD Interim SOT Report and provided comments to Envirocare.
 - Completed processing and packaging of 6 OTP containers for shipment.

 - Inorganic Treatment Project
 - One shipment of ITP waste was shipped to Envirocare on 9/23, and the remaining two ITP inventory shipments on 9/30 to meet the ITP 9/30/03 STP milestone.

October 2003 (Anticipated)

- Enforceable Milestones To Be Completed
 - None due

- Work To Be Initiated/Continued/Completed
 - Incinerator Liquids
 - Continue Batch 14 bulking activities in consolidation tank C (south tank).
 - Initiate planning to remove and process/package any sludges/solids remaining in consolidation tanks A (north tank) and B (middle tank).

 - Sample Disposition

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- Ensure all containers have their new storage location/disposition in the database.
- Complete Final Sample Disposition Project Report.

- **Organic Treatment Project**
 - Complete shipping activities for VTD Shipments 5, 6, 7 and 8 for shipment to Envirocare in October/November. Complete identification of inventories for later VTD shipments. Complete inventory releases required to package remaining MWP inventory. Complete work packages to process & package the remaining OTP inventory. Assign currently packaged inventory to shipments.

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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

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