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Ohio Field Office  
Fernald Environmental Management Project  
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JUL 15 2003

Mr. James A. Saric, Remedial Project Manager  
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Region V-SR-6J  
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DOE-0446-03

Mr. Tom Schneider, Project Manager  
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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/  
FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/  
CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF JUNE 1, 2003 THROUGH  
JUNE 30, 2003 AND QUARTERLY REPORT FOR APRIL 1, 2003 THROUGH JUNE 30,  
2003, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF JULY 1, 2003 THROUGH  
JULY 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 June 1, 2003 through June 30, 2003 and Quarterly Report for April 1, 2003 through June 30, 2003, including anticipated work for the period of July 1, 2003 through July 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  
Acting Director

FCP:Reising

Enclosures: As Stated

Mr. James A. Saric  
Mr. Tom Schneider

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DOE-0446-03

cc w/enclosures:

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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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 INCLUDING INCLUDING ANTICIPATED WORK FOR THE PERIOD OF JULY 1, 2003 THROUGH  
 JULY 31, 2003**

This report describes actions at the Fernald Closure Project (FCP) from June 1, 2003 through June 30, 2003, and the Quarterly Report for April 1, 2003 through June 30, 2003, including anticipated work for the period of July 1, 2003 through July 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**

**April 2003**

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 12,598 tons of material from waste pits
  - Shipped 120 railcars (UT80 and UT81) of material for disposal at Envirocare

**May 2003**

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 20,998 tons of material from waste pits
  - Shipped 187 railcars (UT82, UT 83, and UT84) of material for disposal at Envirocare

**June 2003**

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 16,552 tons of material from waste pits
  - Shipped 187 railcars (UT85, UT86 and UT87) containing 20,441 tons of material for disposal at Envirocare

**July 2003 (Anticipated)**

- Enforceable Milestones To Be Completed
  - None
- Work To Be Initiated/Continued/Completed
  - Load 15,494 tons of material from waste pits
  - Ship 180 railcars of material for disposal at Envirocare

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 JULY 31, 2003**

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)

April 2003

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF) - None
  - Soils Characterization and Excavation Project (SCEP) - None
- Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Continued Title III and CQC services for OSDF Construction
    - Continued Site Prep for Cell 6 liner
    - Completed receiving Cap 2 rock and stone
    - Completed Site Prep for Cap 2
    - Started placement of contouring layer Cell # 2 Cap
    - Started transite placement in Cell # 4
    - Started Cell # 5 liner 2 ft select impacted layer
    - Continue restoration of Borrow Area 1 and 2
    - Started and completed backfill of Sed Basin # 1
    - Started new water well construction
    - Started receiving Geotextile, GML, and GCL materials for Cap # 2 and Cell # 6 Liner
  - Soils Characterization and Excavation Project (SCEP)
    - Continued Concrete Breaking/Crushing in Area 4A
    - Continued AWAC excavation in Area 3A and 4A
    - Completed excavation at Fire Training Facility
    - Started Site Prep for Solid Waste Landfill
    - Continued Restoration work in Southern Waste Units and Northern Pines
    - Continued maintenance of Organic Soil stockpile
    - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B
    - Completed Pre-certification of Area 6 Phase I
    - Continued Pre-certification of Area 8 Phase III North
    - Started and completed hot spot removal in Area 9 Phase II
    - Completed certification sampling in Area 9 Phase II

May 2003

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soils Characterization and Excavation Project (SCEP)
    - None

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- Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Continued Title III and CQC services for OSDF Construction
    - Completed Site Prep for Cell # 6 liner
    - Continued excavation of subgrade for Cell # 6 Liner and started compacted clay liner
    - Started receiving Cell # 6 Liner drainage layer material
    - Completed contouring layer Cell # 2 Cap and started compacted clay cap
    - Continued transite placement in Cell # 4
    - Continued impacted material placement in Cell # 3 and # 4
    - Completed Cell # 5 liner 2 ft select impacted layer
    - Completed restoration of Borrow Area 1 and 2
    - Continued new water well construction
    - Continued receiving Geotextile, GML, and GCL materials for Cell # 2 Cap and Cell # 6 Liner
    - Started mobilization of borrow area screening equipment
  - 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
    - Solid Waste Landfill excavation has been re-scheduled to start in October 2003
    - Continued Restoration work in Southern Waste Units and Northern Pines
    - Completed staging of F-listed soil in AR3-007 footprint
    - Continued maintenance of Organic Soil stockpile
    - Completed submittal of Organic Soil Treatment Plan
    - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B
    - Completed Response to Comments Area 2 Phase II IRDP
    - Completed Area 6 Phase I CDL/PSP
    - Completed Area 7 Phase I As-built Report
    - Started and completed Radium 226 hotspot in Area 8 Phase III north
    - Completed Area 8 Phase III Pre-certification
    - Continued to remove soil from Silos 1,2,3 and stockpile for cell placement
    - Continued Sitewide Predesign/Excavation Control PSP development
    - Continued Stream Corridors/Silo Area Predesign PSP development

June 2003

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soils Characterization and Excavation Project (SCEP)
    - Submitted Area 8 Phase III CDL to EPA May 31, 2003
- Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Continued Title III and CQC services for OSDF Construction

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- Continued Cell # 6 Liner compacted clay liner
- Completed receiving Cell # 6 Liner drainage layer material
- Completed Cell # 2 compacted clay cap
- Started Cell # 2 cap GCL and GML layers
- Continued transite placement in Cell # 4
- Continued impacted material placement in Cell # 3, # 4, and # 5
- Continued new water well construction
- Completed receiving Geotextile, GML, and GCL materials for Cell # 2 Cap and Cell # 6 Liner
- Completed mobilization of borrow area screening equipment and started clay screening operation
  
- 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
  - Mobilize and start concrete crushing operations for Area 3A stockpile
  - Started Area 3B Utility Isolation Trench
  - Completed Restoration work in Southern Waste Units and Northern Pines Area until this fall
  - Continued maintenance of Organic Soil stockpile
  - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B
  - Started Area 2 Phase II Radium hot spot removal
  - Submitted Area 6 Phase I CDL/PSP
  - Submitted Area 6 SP7/OU1 Stockpile Area Predesign PSP
  - Submitted Area 8 Phase III North CDL/PSP
  - Continued to remove soil from Silos 1,2,3 and stockpile for cell placement
  - Continued Sitewide Predesign/Excavation Control PSP development
  - Continued Stream Corridors/Silo Area Predesign PSP development

July 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
    - Continue transite placement in Cell # 4
    - Continue impacted material placement in Cell # 3, # 4, and # 5
    - Complete Cell # 2 cap GCL and GML layers
    - Start and complete Cell # 2 cap Geotextile installation
    - Start Cell # 2 cap cover drainage layer
    - Complete Cell # 6 compacted clay liner
    - Start Cell # 6 secondary GCL/GML installation
    - Complete new water well construction
    - Continue clay screening operation in Borrow Area

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- 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
  - Continue concrete crushing operations for Area 3A stockpile
  - Complete Area 3B Utility Isolation Trench
  - Start Area 3B concrete breaking (Plant 1 Pad) and excavation
  - Continue maintenance of Organic Soil Stockpile
  - Complete Area 2 Phase II Radium Hot Spot excavation
  - Continue Predesign WAC and FRL Attainment sampling for Areas 3B/4B
  - Complete Area 3B/4B/5 IRDP Response to Comment
  - Start Area 6 Phase I certification sampling
  - Submit Final Area 9 Phase II CDL/PSP
  - Continue to remove soil from Silos 1,2,3 and stockpile for cell placement
  - Complete Sitewide Predesign/Excavation Control PSP development
  - Complete Stream Corridors/Silo Area Predesign PSP development

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

April 2003

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Plants 2,3,8,GS (Task 1):
    - 2A - Equipment/system removal for all three areas; shearing tanks on the north side of 2A; exterior transite removal of electrical enclosure #3; interior transite removal 1st and 2nd floors of Digestion area
    - 3J - Tank sizing and acid brick removal; material processing in the general sump area
    - 8A - Removal of interior transite on 1<sup>st</sup> and 2<sup>nd</sup> floors, process and non-process equipment removal, beryllium contamination removal, asbestos removal; built vestibule
    - 8G - Non-process equipment/system removal (oxidation furnace)
    - 18D - clean release survey
    - General - Process Piping Inspections
  - Lab (Task 6):
    - Building 15A -Asbestos abatement center west, center east, and southwest areas; building preparation and maintain seal. Mastic removal southeast; perchloric and standard fume hood washdown and verification
  - Liquid Storage & Pilot Plant (Task 2/3):
    - Building 13A - Phase I south prep for washdown/lockdown survey; Phase II north gross washdown
    - Building 54A - Equipment/system removal in the reactor tower area; release, clean and lockdown south area

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- Utility Redistribution/Facilities Shutdown:
  - Continued utility isolations for Excavation areas 3B and 4B. Performing 13.2 Kv system redistribution for T-57, T-58 & WPRAP. Planning redistributions required for the Liquid Storage Complex.
  - Completed Bldg. 26A underground mechanical isolations
  - Started cooling tower isolation
  - Removed hold-up material found in Plant 2/3 tanks

May 2003

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Plants 2,3,8,GS (Task 1)
    - 2A - Equipment/system removal and interior transite removal for Denitration/Digestion/Extraction; roof tanks asbestos abatement; Acid brick removal; process piping inspections; shearing tanks on the north side of 2A was completed May 15
    - 3E - Performed gross washdown
    - 3J - Material processing
    - 8A - Building maintenance; asbestos abatement; removed interior transite on 1<sup>st</sup> and 2<sup>nd</sup> floors; process and non-process equipment removal; beryllium contamination removal; asbestos removal; NaOH tanks preparation
    - 18D - Structural demolition completed May 21; debris sizing and loading ongoing
    - General Sump - Shearing of 2A north and south tanks in this area
  - Lab (Task 6)
    - Building 15A - Building maintenance and maintain seal; asbestos abatement center west; thorium cleanup; southwest basement asbestos preparation
    - All areas - Floor tile removal in all areas (mastic remaining)
  - Liquid Storage & Pilot Plant (Task 2/3)
    - Building 13A - Removal of Phase II non-process piping; interior transite removal; Phase II north gross washdown
    - Building 54A - Reactor tower area equipment/system removal
    - Tanks T3, T4, T5, and T6 are being reduced
  - Utility Redistribution/Facilities Shutdown
    - Continued utility isolations for Building 26 and Excavation areas 3B and 4B
    - Completed planning redistributions required for the Liquid Storage Complex and Administration complex
    - Removal of hold-up material found in Plant 2/3 tanks

June 2003

- Enforceable Milestones Completed
  - None

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- Work Initiated/Continued/Completed
  - Plants 2,3,8,GS (Task 1)
    - 2A - Pre-clean, equipment/system removal, and interior transite removal in Digestion/Extraction/Denitration; roof tanks asbestos abatement; acid brick removal in Denitration/ Digestion/Extraction
    - 2D - Structural demolition started 6/20; demolition completed 6/21; loadout completed 6/26
    - 3E - Gross washdown; building preparation
    - 3J - Material processing
    - 8A - Building maintenance; asbestos abatement; remove interior transite on 1<sup>st</sup> and 2<sup>nd</sup> floors; process and non-process equipment removal; beryllium contamination removal; Hazardous Waste Management Unit (HWMU) #14 rinsing of interior and exterior components and sampling of rinseate; build containments for NaOH tanks
    - 18D - Completed loadout of debris
    - General Sump - Material processing
  - Lab (Task 6)
    - Building 15A - Building maintenance and maintain seal; asbestos abatement center west; thorium cleanup; fume hood and mercury removal; complete floor tile and mastic removal throughout
  - Pilot Plant (Task 3)
    - Building 13A - Remove Phase II process/non-process piping; interior transite removal; washdown survey; Phase II north gross washdown completed 5/30
    - 13D - Tank equipment/system removal
    - Building 54A - Reactor tower area equipment/system removal
    - Building 54A south - Set up Rupp tent; shear, size and load equipment from Plants 2, 3, and 8
  - Liquid Storage
    - Kick-off meeting and mobilization for Bldgs. 45 and 80; clean out of equipment room and removal of light bulbs in Bldg. 45; installation of asbestos decon trailer
  - Plant 1 Pad
    - Kick-off meeting held 6/16; mobilization, ordering material and equipment, clearing the pad
  - Utility Redistribution/Facilities Shutdown
    - Continue utility isolations for Excavation areas 3B and 4B
    - Continue redistributions required for the Liquid Storage Complex

July 2003 (Anticipated)

- Enforceable Milestones To Be Completed
  - None

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- Work To Be Initiated/Continued/Completed
  - Plants 2,3,8,GS (Task 1)
    - 2A - Roof tanks asbestos abatement; pre-clean and equipment removal; interior transite removal in Denitration/ Digestion/Extraction
    - 3E - Building preparation and equipment/piping/conduit/transite removal
    - 3J - Material processing
    - 8A - Building maintenance; asbestos abatement; interior transite removal on 1<sup>st</sup> and 2<sup>nd</sup> floors; process and non-process equipment removal; beryllium contamination removal; Hazardous Waste Management Unit (HWMU) #14 - collection of rinseate and sampling of interior components; thorium equipment removal
    - General Sump - Material processing
  - Lab (Task 6)
    - Building 15A - Building maintenance and maintain seal; complete thorium cleanup; complete floor tile and mastic removal throughout
  - Pilot Plant (Task 3)
    - Building 13A - Remove Phase II process/non-process piping; interior transite removal
    - 13D - Equipment/system removal
    - Building 54 - Interior transite removal
    - Building 54A north - Asbestos abatement
    - Building 54A south - Shear, size and load equipment from Plants 2, 3, and 8
  - Utility Redistribution/Facilities Shutdown
    - Continue utility isolations for Excavation areas 3B and 4B
    - Continue redistributions required for the Liquid Storage Complex
  - Plant 1 Pad
    - Continue mobilization and prep work; removal of miscellaneous chemicals and equipment and prep Bldgs. 56A and 30A; foamboard insulation removal from 56A; demolition, size reduction and loadout of Tension Support Structures TS-4, -5, and -6

**OPERABLE UNIT 4 - SILOS PROJECT**

April 2003

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Submitted response to comments and Draft Final Remedial Design (RD) Package for Silos 1 and 2 to USEPA/OEPA.
  - Received approval of the draft Final Proposed Plan for Silo 3 from USEPA and OEPA. Prepared Final PP in preparation for formal public comment period.
  - Prepared revisions to the Silo 3 design to incorporate conditioning for dispersability and metals mobility.

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- Received final approval of the RD Package for the Accelerated Waste Retrieval (AWR) Project from OEPA
- Initiated second test run of the Radon Control System (RCS) 4/25/03, in preparation for the initiation of continuous Phase 1 operation.
- Completed pouring of the concrete equipment deck above the Transfer Tank Area
- Completed sheet piling installation and began silo berm excavation for the Silos 1 and 2 bridge foundations and bridge laydown area.
- Continued construction for the Silo 3 and Silos 1 and 2 Remediation facilities.

**May 2003**

- Enforceable Milestones Completed
  - Continuous Phase 1 Operation of the Radon Control System (RCS) was initiated, satisfying a 5/23/03 milestone
- Work Initiated/Continued/Completed
  - Formal public review of the Final Proposed Plan for Silo 3 was completed 5/30/03; a public hearing was held 5/13/03 (No public comments were received); preparation of the draft Record of Decision (ROD) Amendment was initiated
  - Preparation of the draft revised Remedial Design (RD) Package for the Silo 3 Project was initiated
  - The Explanation of Significant Differences (ESD) for Silos 1 and 2 was drafted and submitted for DOE review
  - The protective plywood caps were removed from the domes of Silos 1 and 2 in preparation for erection of the retrieval bridges over the silos
  - Initial berm excavation, installation of crane pads and bridge foundations, and steel fabrication took place in preparation for erection of the retrieval bridges over the silos
  - Continued construction of the Silo 3 and Silos 1 and 2 Remediation facilities

**June 2003**

- Enforceable Milestones Completed
  - The milestone for submittal of the draft ROD Amendment for Silo 3 to USEPA for review (6/14/03) was extended to 60 days after completion of the public comment period (7/30/03).
- Work Initiated/Continued/Completed
  - Submitted draft ROD Amendment for Silo 3 to DOE for review.
  - Initiated preparation of the Remedial Action (RA) work Plan for Silos 1 and 2 Waste Retrieval Operations, due to be submitted to EPA by 8/1/03
  - Conducted demonstration of Silo 1 and 2 dome penetration on Silo 4.
  - Continued Phase 1 operation of the RCS.
  - Received approval of the Remedial Design Package for the Silos 1 and 2 Remediation Facility from the USEPA and the OEPA.
  - Erected the retrieval bridges over Silo 2; continued fabrication of the Silo 1 bridge.
  - Continued construction of the Silo 3 and Silos 1 and 2 Remediation facilities.

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July 2003 (Anticipated)

- Enforceable Milestones To Be Completed
  - Submit draft ROD Amendment for Silo 3 to the USEPA for review (7/30/03)
- Work To Be Initiated/Continued/Completed
  - Submit draft Explanation of Significant Differences (ESD) for Silos 1 and 2 to EPA for review.
  - Complete design of the truck & trailer staging areas to support direct truck shipment of treated Silos 1 and 2 material; review design with USEPA/OEPA.
  - Submit draft ROD Amendment for Silo 3 to EPA for review.
  - Submit draft Remedial Action (RA) work Plan for Silos 1 and 2 Waste Retrieval Operations, to DOE for review
  - Submit Silos 1 and 2 Dome Penetration and Riser Installation Plan to EPA
  - Prepare revised Silo Remedial Design Package, incorporating the design modifications resulting from the remedy outlined in the ROD Amendment
  - Complete erection of the retrieval bridges over Silos 1 and 2; continue construction of the Silos 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**

April 2003

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for March to the OEPA on April 17.
  - Submitted the NPDES Noncompliance Report for March 2003 to the OEPA on April 17.
- Work Initiated/Continued/Completed
  - Submitted amended NPDES Permit Renewal Applications to the OEPA on April 22.
  - Continued treatment plan 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.
  - Determined that wastewater with high total dissolved solids (TDS) is causing the poor uranium removal performance in the AWWT Phase II treatment system.
  - Continued implementing measures to mitigate the effects of high TDS wastewater on the AWWT Phase II treatment system.
  - Increased groundwater extraction rate to the desired rate in most of the extraction wells.
  - Resumed re-injection at rates up to 1000 gallons per minute during portions of the month.
  - Received US EPA and Ohio EPA approval to conduct additional direct push sampling in the off-property portion of the South Plume in late March.
  - Continued direct push sampling in the off-property portion of the South Plume.
  - Completed installation of replacement Extraction Well 21A in late March and completed development of the well in April.

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May 2003

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for April to the OEPA on May 16.
  - Submitted the NPDES Noncompliance Report for April 2003 to the OEPA on May 16.
  
- Work Initiated/Continued/Completed
  - Continued treatment plant ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits
  - DOE transmitted to the EPAs on May 13 the Fourth Quarter 2002 Re-Injection Operating Report and Notification of No Need for a First Quarter 2003 Re-Injection Operating Report
  - Maintained compliance with the 30 ppb monthly average uranium limit for discharges to the Great Miami River (The monthly average uranium concentration for May was 20.9 ppb)
  - Continued implementing measures to mitigate the effects of high TDS wastewater on the AWWT Phase II treatment system
  - Increased groundwater extraction rate to the desired rate in most of the extraction wells
  - Resumed re-injection at rates up to 1200 gallons per minute during portions of the month
  - Continued direct push sampling in the off-property portion of the South Plume
  - All the extraction wells in the southern uranium plume were shutdown on Friday May 9 to support the tie-in of the new South Field Phase II extraction wells. The tie-ins were completed and pumping resumed late in the day on Monday May 19. Per EPA approval (letter dated May 14, 2003) the uranium concentrations in the site effluent during this 11-day maintenance shutdown will not be considered in the monthly average in demonstrating compliance with the 30 ppb uranium limit.

June 2003

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for May to the OEPA on June 17.
  
- Work Initiated/Continued/Completed
  - Continued construction work on the South Field Phase II Groundwater Restoration Module.
  - 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 June was 17.6 ppb.
  - Continued implementing measures to mitigate the effects of high TDS wastewater on the AWWT Phase II treatment system.
  - Maintained groundwater extraction rate at the desired rate in most of the extraction wells.

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- 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.

July 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.
  - Complete construction activities for the South Field Extraction System Phase II Groundwater Restoration Module.
  - Begin operation of the South Field Extraction System Phase II Groundwater Restoration Module.
  - Continue to operate groundwater extraction system at flow rates necessary to maintain regulatory discharge limits.
  - Continued treatment plan ion exchange resin regeneration/replacement in order to maintain regulatory discharge limits.
  - Complete tie-in of replacement Extraction Well 21A.

WASTE MANAGEMENT

April 2003

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Incinerator Liquids
    - Batch 13 TSCA application packet awaiting lab information pertaining to one TSACI comment prior to TSCA approval and submittal to the State of Tennessee. Planning for Batch 14 bulking operations activities initiated with development of TSCA 1035.
  - AWWT Liquids
    - Treated 4,158 pounds of aqueous waste at AWWT
  - Sample Disposition
    - 24 containers of samples were processed, bringing the total processed to 132 containers.
  - Hazardous Waste Project
    - Shipped 1 container (160 pounds) of photochemical waste to Safety Kleen. Sorted and segregated 39 drums of PCB and non-PCB light ballasts and repackaged for shipment. Completed packaging of labpacks to be shipped to Heritage Environmental Services.

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- Organic Treatment Project
  - Completed the processing of approximately 500 SWIFTS-identified oily sludge containers. Additional 33 containers of OTP waste were dispositioned through WPRAP for a total of 243 containers (3,426 cubic feet).
- Inorganic Treatment Project
  - Macroencapsulation
    - No activity this month
  - Mercury
    - No activity this month
  - Soils, Sludges, Debris (SSD)
    - Resumed processing and packaging inventory associated with those inorganic, low concentration organic waste streams in the OTP that are destined for Waste Control Specialists (WCS). Shipped 7 containers of NPDS treated waste that is LDR compliant to Envirocare.

May 2003

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Incinerator Liquids
    - Received notification of Batch 13 Toxic Substances Control Act Incinerator (TSCAI) application packet approval by TSCAI. TSCAI submitted the application packet to the State of Tennessee for review/approval on 5/23. Initiated the Batch 13 waste transfer work package, shipping paperwork and TSCAI shipping coordination in anticipation of the three June/July Batch 13 shipments to TSCAI. Provided Batch 14 information to TSCAI as FY 2004 TSCAI Burn Plan input.
  - Sample Disposition
    - Processed a total of 68 containers for the month.
  - Hazardous Waste Project
    - Completed two labpack shipments totaling 19 containers to Heritage Environmental Services on 5/7.
  - Organic Treatment Project
    - Provisionally approved the Envirocare System Operability Test (SOT), providing a basis for the early award of the Vacuum Thermal Desorption (VTD) contract option. Exercised the VTD contract option to Envirocare. Completed processing and packaging of 233 Organic Treatment Project (OTP) containers for shipment. Continued development of inventory release documents for remaining OTP inventory. Initiated June shipments of the Release #1 inventory to Envirocare. Completed the shipment of 73

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containers of Fire Training Facility (FTF) Soils to Envirocare.

- Inorganic Treatment Project
  - Waste Minimization/Pollution Prevention
    - Shipped 13,446 pounds of electrical waste (fluorescent light tubes, non-PCB and PCB ballasts and batteries) to Onyx Industrial Systems, Incorporated.

June 2003

- Enforceable Milestones Completed
  - AWWT Liquids - As of June 16, 2003 the FY2002 FCP STP Annual Update June 30, 2003 Wastewater Treatment milestone was met. All of the waste identified as Wastewater Treatment Inventory in Appendix B of the FY2002 FEMP STP Annual Update has either been treated at the AWWT, re-assigned to another STP Project (based on review of MEF information, visuals or field screening) or re-evaluated and recharacterized as non-hazardous.
- Work Initiated/Continued/Completed
  - Incinerator Liquids
    - Attended 6/3 TSCA Incinerator Users' Meeting. Batch 13 TSCAI application packet is with the State of Tennessee for review/approval. Continued the Batch 13 shipping paperwork and TSCAI shipping coordination in anticipation of the three July Batch 13 shipments to TSCAI.
  - Sample Disposition
    - The SDP processed 81 containers either in Bldg. 68 or at SP-7.
  - Hazardous Waste Project
    - Loaded 110 excess clean and contaminated compressed gas cylinders for 7/1 shipment to the Integrated Environmental Services, Inc., facility in Oak Ridge.
  - Waste Minimization/Pollution Prevention
    - Completed a 7,775 pound lead acid batteries recycling shipment to American Compressed Steel. Waste Management Inc. placed an additional 6 cubic yd. trash dumpster in the Silos Project area. Completed processing and packaging of 22 hazardous waste containers to be dispositioned through WPRAP.
  - Organic Treatment Project
    - Transmitted fully executed Vapor Thermal Desorption (VTD) Option to Envirocare. VTD Shipment 1 (44 containers) left the site for Envirocare on 6/2. VTD Shipment 2 (48 containers) left the site for Envirocare on 6/19. VTD Shipment 3 (46 containers) left the site for Envirocare on 6/30. VTD Shipment 4/5 is being readied for shipment to Envirocare the week of 7/7. In the period 6/1 to 6/20 completed processing and packaging of 91 OTP containers for shipment. Finalized shipments of Release #1 inventory to Envirocare. Finalizing inventories for first two July VTD shipments and continued identification of inventories for remaining July VTD shipments.

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Shipped 55 containers of FDF Soils to Envirocare. Continued development of inventory release documents for remaining OTP inventory.

- Inorganic Treatment Project
  - The 4 sulfuric acid containers in the AWWT Liquids Project cannot be treated through the AWWT (based on review of MEF information, visuals or field screening) and are planned to be shipped offsite for disposal. In accordance with past STP practice, these 4 containers have been assigned to the Inorganic Treatment Project and are subject to the 9/30/03 Inorganic Treatment Project STP milestone. Completed packaging and processing of the 4 sulfuric acid containers

July 2003 (Anticipated)

- Enforceable Milestones To Be Completed
  - AWWT Liquids - Site Treatment Plan - 6-30-03
- Work To Be Initiated/Continued/Completed
  - Incinerator Liquids
    - Await Batch 13 TSCA application packet approval by the State of Tennessee. Issue the Batch 13 waste transfer work package. Complete the Batch 13 shipping paperwork and TSCA shipping coordination in anticipation of the three July Batch 13 shipments to TSCA. Continue planning for Batch 14 inventory and bulking operations activities.
  - AWWT Liquids
    - Complete treatment operations/reassignment of AWWT 1001-1020 Punch List inventory. Complete AWWT 1021 treatment operations. Initiate AWWT transfer operations for identified liquid NOX waste containers. Await AWWT 1023 compatibility assessment prior to submitting WWDR request.
  - Hazardous Waste Project
    - Complete the shipment of 110 excess clean and contaminated compressed gas cylinders to the Integrated Environmental Services, Inc. facility. Disposition waste via RFD 1183 through WPRAP. Review shipping schedule and request copies of the SCP&RDs for the waste that is scheduled for shipment.
  - Sample Disposition
    - Receive a roll-off so crushed samples and containers that have been opened can be analyzed by X-ray fluorescence (XRF) and put into the roll-off. Process containers in releases 008, 010, 013, 015 & 016. Continue to work on SAMP 1015. Research backlog container inventories
  - Waste Minimization/Pollution Prevention
    - Complete recycle/disposition activities for the 5 sealands of used tires at the Building 82 staging area.