



U.S. Department of Energy Portsmouth/Paducah Project Office

Paducah Project Updates

**Prepared for the PGDP Citizens Advisory Board
November 2007**



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure



U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Soils Operable Unit

(November 2007)

PROJECT SCOPE

The short-term objectives of the Soils Operable Unit include evaluation of newly identified areas of possible contamination and the removal of three inactive facilities where soil contamination is present. These are the facilities:

- C-218 Firing Range
- C-403 Neutralization Pit
- C-410-B Sludge Lagoon

Planning for the three facility removals has begun and the first phase of sampling for the Soil and Rubble Pile areas has been completed.

Long-term, the project includes a Remedial Investigation to identify any soils contaminated with PCBs or radioactivity. That will lead to a 2012 Record of Decision and a Removal Action for contaminated soils above action levels. That action will be completed by 2016.



The C-403 Neutralization Pit is one of three inactive facilities with soil contamination included in the Soils Operable Unit.

UPCOMING WORK

Work planned in next 60 days:

- Issue the D1 Engineering Evaluation/Cost Analysis for the three Inactive Facilities
- Issue the D1 Soils OU Scoping document
- Obtain regulatory approval on the D2/R1 Soil Piles Sample and Analysis Plan (SAP) and Addendum 1-A
- Issue the Addendum 2 within 15 days of receiving regulatory approval of 1-A
- Issue the Rubble Piles SAP within 45 days of receiving approval of Addendum 1-A
- Issue Addendum 1-B within 7 days of Soil Pile I (Addendum 1-A) data approval
- Issue Addendum 1A Site Evaluation Report within 45 days of data approval

RECENT ACCOMPLISHMENTS

- Completed sampling of Soil Pile I along Little Bayou Creek
- Issued to Kentucky and EPA the D2/R1 Soil Piles SAP and Addendum 1-A for approval

FFA MILESTONES

- 4th quarter, 2011 – D1 Removal Decision Document
- 3rd quarter 2012 – D1 Record of Decision
- 09/30/15 – D1 Remedial Action Completion Report



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Contacts:

DOE: David Dollins/Rick Bonczek
PRS: Tracey Brindley/Craig Jones/Aric Cowne
Kentucky: Ed Winner
U.S. EPA: David Williams

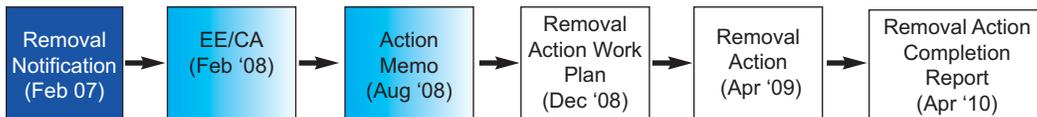
Next Document Deadline:

Soil Piles Addendum 1-B, Addendum 2, and Rubble Area Sample and Analysis Plan; expected in November 2007, pending approval by EPA of Addendum 1-A



Above, sampling one of the Soil Pile areas along Little Bayou Creek; above right, the C-410B Sludge Pit; below right, the C-218 Firing Range.

Documents Scheduled (D1 versions)



Portsmouth/Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Legacy Waste Disposition

(November 2007)

PROJECT SCOPE

DOE is responsible for positioning and/or recycling legacy wastes (wastes generated at the PGDP prior to establishment of USEC on July 1, 1993); wastes generated from ongoing DOE projects; and a limited amount of waste generated by USEC.

After characterization to assure selection of the appropriate disposition method, nonhazardous and nonradioactive wastes are disposed of in the DOE Solid Waste Contained Landfill. (See C-746-U Landfill fact sheet.)

Hazardous and radioactive wastes are treated, if necessary, and shipped off-site to approved DOE or commercial disposal facilities.

Wastewater (collected from sumps in diked areas in DOE waste storage facilities at PGDP) is treated and discharged in accordance with the Kentucky Pollutant Discharge Elimination System permit.

More than half of the about 572,000 ft³ of legacy waste once stored at the site has been removed. The project is scheduled to be completed in late 2009.



Liquid wastes are pumped into a tanker truck for off-site treatment and disposal. Part of the waste being shipped is subject to the upcoming Site Treatment Plan (STP) milestone.

UPCOMING WORK

Work planned in next 60 days:

- Prepare waste shipments to be shipped off-site for treatment (stabilization or macroencapsulation) and/or disposal
- Treat and discharge wastewater

KEY DOCUMENTS:

- Paducah Waste Acceptance Criteria (BJC/PAD-11/R4)
- Final Environmental Assessment for Proposed Disposition of Waste from the Paducah Site (DOE/EA-1339)
- Site Treatment Plan DWM-30039-042



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Contacts:

DOE: Rob Seifert
PRS: Matt LaBarge / Greg Shaia
Kentucky: Jon Maybriar
U.S. EPA: David Williams

Next Document Deadline:

Site Treatment Plan Quarterly Report,
January 30, 2008; status, on schedule

FFA MILESTONES

- Wastes listed on Site Treatment Plan Tables 7.1, 7.2, 7.3, and 8 must be treated, shipped, or otherwise declared nonhazardous by Jan. 31, 2008; project is on schedule.

RECENT ACCOMPLISHMENTS

- Shipped 6,027 ft³ of legacy waste to off-site facilities for treatment and disposal.



Wastes leaving the PGDP site may be shipped in standard semitrailers (above), specialized tanker trucks (below), or other types of truck or rail transportation.



Portsmouth/Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update C-746-U Contained Landfill

(November 2007)

PROJECT SCOPE

The C-746-U operating landfill and support facilities are located on 60 acres of DOE property near Ogden Landing Road, operating under a permit from the Kentucky Division of Waste Management.

Landfill disposal operations began in 1997. DOE uses the landfill for disposal of solid waste generated from its operations at the Paducah site.

Examples of wastes accepted include nonhazardous soil and debris from DOE projects, such as protective clothing worn by workers, paper, packaging, and landfill office wastes.

No waste classified as hazardous or radioactive is accepted.



The C-746-U Contained Landfill receives soil and debris produced by operations at the Paducah Gaseous Diffusion Plant.

KEY DOCUMENTS:

- Environmental Assessment for the Construction, Operation, and Closure of the Solid Waste Landfill at the Paducah Gaseous Diffusion Plant (DOE/EA-1046)
- Environmental Assessment on the Implementation of the Authorized Limits Process for Waste Acceptance at the C-746-U Landfill (DOE/EA-1414)
- Waste Acceptance Criteria for the Department of Energy Treatment, Storage, and Disposal Units at the Paducah Gaseous Diffusion Plant (BJC/PAD-11/R4)
- D2 Sampling and Analysis Plan for Site Investigation and Risk Assessment
- D2 SWOU (On-site) Site Investigation and Baseline Risk Assessment Report at the Paducah Gaseous Diffusion Plant
- D1 SWOU Removal Notification (On-Site)
- D1 SWOU Engineering Evaluation/Cost Analysis

RECENT WORK

Received nearly 180 tons of waste or soil/debris in September and October 2007

Treated more than 24,500 gallons of leachate during September and October 2007

Contacts:

DOE: Jeff Snook
PRS: Paul Corpstein/Matt LaBarge/Paul Gagnon
Kentucky: Todd Hendricks
U.S. EPA: David Williams

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Groundwater Operable Unit

(November 2007)

PROJECT SCOPE

This project addresses environmental remediation of groundwater contamination on a sitewide basis at the PGDP.

The main contaminants of concern are trichloroethene (TCE) and technetium-99 (Tc-99). The contaminants are present in three "plumes," the Northeast, Northwest, and Southwest.

Remedial actions will be designed and implemented after completion and signing of Records of Decision (RODs).

Specific projects include these:

- **Northeast and Northwest Plumes Pump and Treat** - Treatment systems that extract contaminated groundwater from the Northwest and Northeast

plumes and return it to beneficial use

- **Southwest Plume** - A decision on addressing contamination for the third plume is being developed (*see reverse side for more detail*)

- **C-400 Interim Remedial Action** - In late 2008, operation begins of a system that will significantly reduce the amount of TCE under the surface at the major source of off-site contamination

- **Dissolved-Phase Plumes Remedy** - DOE has begun the process of determining the best long-term solution for off-site contamination



Overhead power lines are run to the area where a treatment system is to begin extracting TCE from beneath the surface and significantly reduce the site's largest source of off-site contamination.

UPCOMING WORK

Work planned in next 60 days:

- Submission of the D1 Proposed Remedial Action Plan for C-720 and SWMU 1 (Southwest Plume)
- Issue D2/R1 Final Southwest SI Report
- Performing stable carbon isotope sampling analysis to support TCE degradation working group
- Revise the C-400 Remedial Design Report and Remedial Action Work Plans
- Complete construction on the C-400 electrical power feeder

KEY MILESTONES ACCOMPLISHED

- D2/R1 Redline SW Plume Site Investigation Report
- C-400 90% Design
- D1 Remedial Action Work Plan for C-400



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Contacts:

DOE: David Dollins
PRS: Mike Clark/Bryan Clayton
Kentucky: Edward Winner
U.S. EPA: David Williams

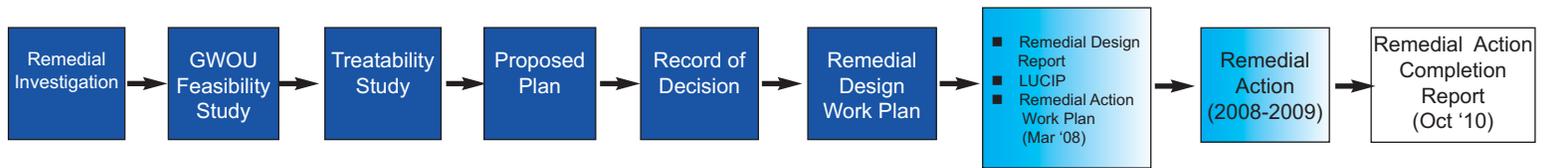
Next Document Deadline:

D2/R1 Southwest Plume Site
Investigation Report, due 30 days
after comments on D2/R1 redline
received from Kentucky and EPA

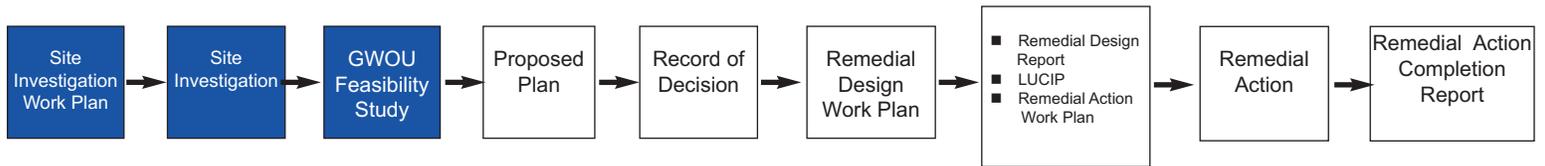


Power to the C-400 treatment system will be supplied by both aerial and underground transmission lines.

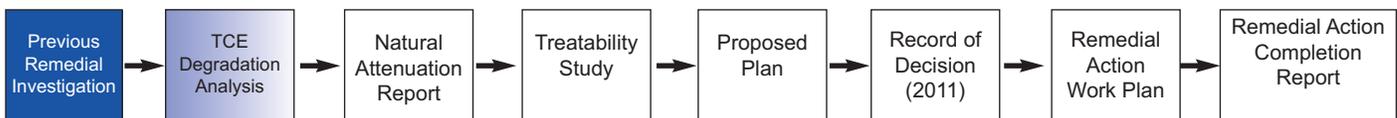
C-400 Documents Scheduled (D1 versions)



Southwest Plume Documents Scheduled



Dissolved-Phase Plume Documents Scheduled



Portsmouth/Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update DUF₆ Conversion Facility

(November 2007)



The construction site as it appeared in late October 2007.

PROJECT SCOPE

This project encompasses two major operations:

1. The design, construction, and operation of a facility to convert depleted uranium hexafluoride to a more stable form.

2. Surveillance and maintenance of about 39,000 cylinders containing DUF₆ now stored on the Paducah site.

The project site occupies approximately 11 acres immediately adjacent to DOE's DUF₆ cylinder storage yards. The completed capital costs for the facility at Paducah are estimated to be approximately \$140 million.

The major facilities on the DUF₆ project include

the Conversion Building, Administration Building, Warehouse and Maintenance Building, and KOH Regeneration Building.

The project work also includes a railroad connection, rail sidings, load out facilities, roads, storage areas for full and empty cylinders, and all utilities.

Ground breaking occurred in July 2004 and construction has continued since that time.

At the conclusion of construction, all systems will be tested and the plant will undergo an Operational Readiness Review.

The facility is expected to commence conversion operations in late 2008 or early 2009.

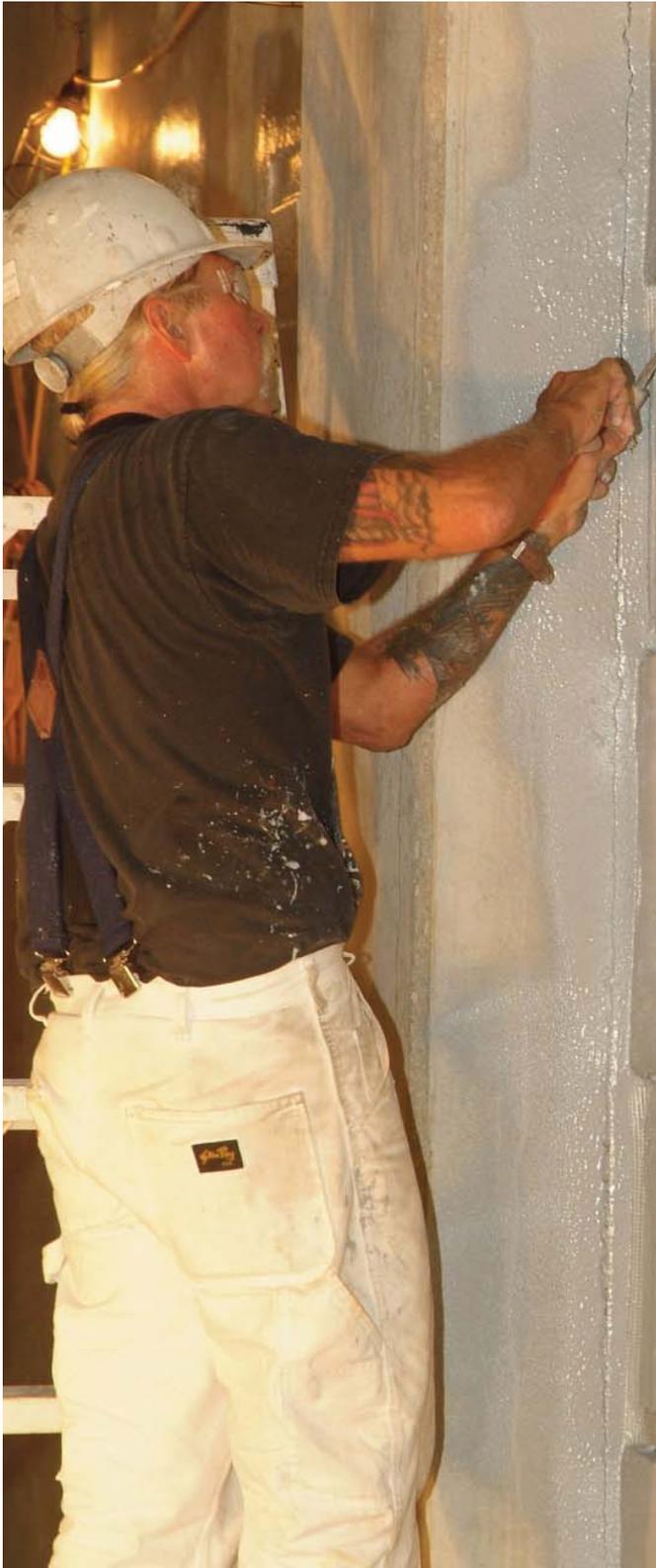
KEY DOCUMENTS:

- Handling and Inspection of DOE 48-inch diameter UF₆ Cylinders at Paducah (UDS-C-CYP-2400)
- Paducah DUF₆ Agreed Order, DWM-31434-030
- Final Environmental Impact Statement for the DUF₆ Conversion Facility at the Paducah Site (DOE/EIS-0359)
- Record of Decision for Construction and Operation
- Facility Design Description Document (DUF6-UDS-FDD-PADU)
- Safety Evaluation Report for the Safety Management Program Description for the UDS DUF₆ conversion project (SER-UDS-SMP)
- Paducah Conversion Facility Preliminary Documented Safety Analysis, DUF6-C-G-PSA-001, Rev.F
- Documented Safety Analysis for the Cylinder Yards, DUF6-C-G-DSA-002
- Technical Safety Requirements for the Cylinder Yards, UDS-C-TSR-001
- System Requirements Document (DUF6-UDS-SRD-PADU)



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Above, fireproof paint is applied to steel plates on walls inside the Conversion Building; right, a worker digs a trench for a gas line.

Contacts/Operations:

U.S. Department of Energy: John Sheppard
Uranium Disposition Services: Barry Tilden

Contacts/Construction:

DOE Site Office: John Sheppard
Uranium Disposition Services: Guy Griswold

CONSTRUCTION STATUS

- Conversion facility structure essentially complete.
- Key equipment has been installed.
- Administration Building and Warehouse Building completed and occupied.
- Conversion plant physical completion scheduled for February 2008.
- Testing and readiness review scheduled to begin in spring 2008.



- Depleted UF₆ scheduled to be introduced into the system beginning in late 2008/early 2009.

- Hiring of operations staff already has begun; the facility will employ 175 people when operations begin.



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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update DOE Material Storage Areas

(November 2007)

PROJECT SCOPE

The 160 DMSAs are nonleased areas inside buildings, as well as outdoor areas. DOE accepted the return of the areas, and the material and equipment they contained, from USEC on December 31, 1996, to facilitate NRC certification of the gaseous diffusion plants.

At that time, most of the contents needed detailed inventory, characterization, and disposition.

Since then, DOE and its contractors have been documenting contents, resolving environmental concerns such as draining and disposing of oils from old equipment, and segregating and disposing of wastes.

The DMSAs initially contained more than 800,000 ft³ of material that needed characterization and about 600,000 ft³ of material that needed dispositioning.



A worker labels asbestos samples.

UPCOMING WORK

Work planned in next 60 days:

- Characterization/packaging in C-335, C-400, C-337
- Ship fissile material for disposal
- Begin shipping process motors for disposal
- Begin shipping waste by rail

KEY DOCUMENTS:

- 2003 Agreed Order (File Nos. DEM-31434-042, DAQ-31740-030, DOW 26141-042)
- Agreed Order Closure Plan for DOE Material Storage Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

FFA MILESTONES

Complete characterization of Priority "C" DMSAs by 9/30/09

KEY MILESTONES

ACCOMPLISHED

Completed characterization of all Priority "A" DMSAs by 9/30/2004

Completed characterization of all Priority "B" DMSAs by 9/30/2006

Characterization -- 90 percent complete

Disposition --

69 percent complete



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Contacts:

DOE: Jeff Snook
PRS: John Samples
Kentucky: Leo Williamson
U.S. EPA: David Williams

Next Document Deadline:

Closure Plan for DMSA 331-05,
12/26/07; status, on schedule



Waste material from a DMSA is loaded for shipment to a disposal facility.



Portsmouth/Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Waste Disposal Options

(November 2007)

PROJECT SCOPE

DOE is evaluating waste management options for the disposition of wastes generated at PGDP from CERCLA actions during site cleanup and D&D activities.

The intent of this evaluation will be to support a comprehensive sitewide decision for the disposition of hazardous, radioactive and mixed waste resulting from CERCLA actions at PGDP.

Waste disposition action alternatives that will be

evaluated in the RI/FS are expected to include off-site and on-site disposal and combinations of these alternatives.

The waste disposition options will be considered by following the Remedial Investigation/Feasibility Study (RI/FS) evaluation and decision documentation process required by CERCLA.

DOE will seek early public input in the evaluation process.

BACKGROUND

An estimated 3.7 million yd³ of waste will be generated during CERCLA cleanup actions from the OUs and D&D activities. In order to more effectively manage these wastes, a sitewide waste management strategy is being examined to determine a reliable protective solution for the disposition of those wastes.

The CERCLA RI/FS process will be used to identify and evaluate waste management alternatives. By following the CERCLA decision and documentation process, documents prepared after the scoping document will include an RI/FS work plan, RI/FS report, Proposed Plan, and Record of Decision (ROD).

KEY MILESTONES

ACCOMPLISHED

- Completed a waste volume assessment for environmental restoration projects and D&D activities
- Presented a project overview for the CAB on October 18, 2007
- Began developing a Community Involvement Plan

UPCOMING WORK

Work planned in next 60 days:

- Submit a D1 Scoping Document to Kentucky, the U.S.EPA and the PGDP Citizens Advisory Board on November 28, 2007

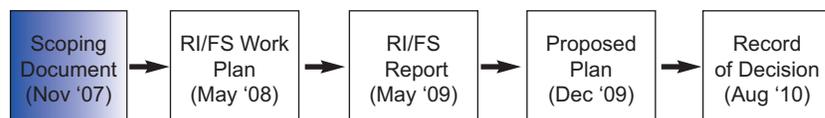
Contacts:

DOE: Jeff Snook
PRS: Fraser Johnstone
Kentucky: Mike Guffey
U.S. EPA: David Williams

Next Document Deadline:

Scoping Document for CERCLA Waste Disposition Alternatives Evaluation RI/FS, November 28, 2007; Status – On schedule

Documents Scheduled (D1 versions)



Portsmouth/ Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Inactive Facility D&D

(November 2007)

PROJECT SCOPE

The scope of this project includes decontamination and decommissioning of inactive PGDP facilities that have no reuse potential. To date, 20 facilities have been designated for removal and 10 of those have been removed.

Major projects within the scope of the D&D project include the following:

- Infrastructure (piping, equipment, and material) removal and demolition of the C-410/C-411/C-420 Feed Plant Complex (ongoing)
- Infrastructure removal and demolition of the C-340 Metals Plant (planned)
- Surveillance and Maintenance of the C-340 Metals Reduction Facility (ongoing)
- Demolition of Inactive Facilities, including the C-746-A West End Smelter (ongoing); the C-342 Ammonia Facility (planned for 2008); and the C-611-M and N Sanitary Water Storage Tanks (planned for 2009)



Workers in respirators remove asbestos from inside the C-410 Complex.

CURRENT STATUS - WEST END SMELTER REMOVAL

The C-746-A West End Smelter was built as a storage facility in the early 1950s. Two furnaces later were added for smelting metals, including gold, nickel, and aluminum. The facility continued operation through the 1970s.

Loose material and debris has been removed from the structure and furnace doors weighing up to two tons each have been removed.

Prior to the start of structural demolition, which is scheduled to begin in late December 2007, additional work must be completed.

- Two large furnaces must be removed (*see reverse side of this fact sheet for a photo*)
- Removal of an old interior office
- Repair a sprinkler system that now runs through the Smelter and serves an adjacent operating facility

FFA MILESTONES

Complete C-340 Metals Plant, C-410/C-411/C-420 Feed Plant, and Inactive Facilities Demolition by September 30, 2017

KEY MILESTONES ACCOMPLISHED

- Removed C-410 HF Tank Farm
- Removed Hydrogen Holder Tank
- Removed C-603 Nitrogen Complex
- Removed C-402 Lime House
- Removed C-405 Incinerator



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CURRENT STATUS - C-410 COMPLEX D&D

The C-410 Feed Plant Complex consists of nine facilities covering nearly 200,000 ft². It was built in 1955 to convert reactor returns from other DOE facilities to uranium hexafluoride. The facility, which is contaminated with various radionuclides, operated until 1977.

D&D work involves three phases that must be completed before structural demolition can begin. These phases overlap. The phases are as follows:

1. Removal of pipes, wiring, loose equipment, and debris - Work continues to dispose of loose

material once stored inside the facility.

2. Asbestos abatement - More than five miles of asbestos insulation was used inside the complex. Removal work is underway and will be completed in 2009.

3. Removal of installed equipment and potentially hazardous chemical residue inside the old process equipment - This phase will begin in 2008.

Building demolition is scheduled to begin by 2012.



A member of the D&D team stands in front of one of two furnaces in the West End Smelter, which is scheduled for demolition in late 2007.

KEY DOCUMENTS:

- Engineering Evaluation/Cost Analysis (EE/CA)
- Action Memorandum
- Removal Action Work Plan (RAWP)
- Cultural Resources Assessment of C-410 Complex
- Agreed Order DWM-31434-042
- Removal Action Report (C-402)
- Documented Safety Analysis and Technical Safety Requirements (C-410)

Contacts:

DOE: Rob Seifert
PRS: Don Ulrich/Brad Montgomery
Kentucky: Brian Begley
U.S. EPA: David Williams



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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Burial Grounds Operable Unit

(November 2007)

PROJECT SCOPE

The scope for the Burial Grounds Operable Unit (BGOU) includes a Remedial Investigation, Feasibility Study, baseline risk assessment, evaluation of remedial alternatives, remedy selection, and implementation of actions, as necessary, for

protection of human health and the environment.

The material in the burial grounds includes hazardous radioactive and pyrophoric wastes.

For a list of the burial grounds included in the unit, see the map on the reverse side.



The C-404 Burial Ground began as a holding pond, then became a low-level waste disposal area.

KEY MILESTONES ACCOMPLISHED

- Remedial Investigation sample borings completed, May 18, 2007
- Remedial Investigation/Feasibility Study (RI/FS) Work Plan

BACKGROUND:

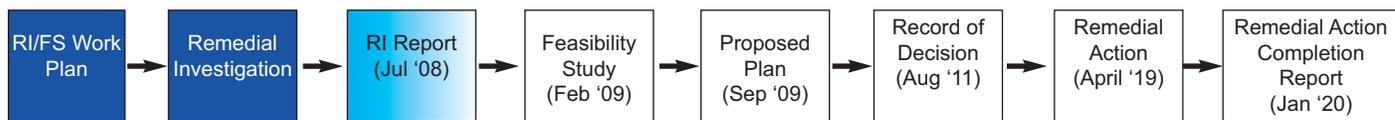
An RI/FS Scoping Document and Work Plan have been developed utilizing information collected on and around the PGDP over the course of the last 10 years. The BGOU includes Solid Waste Management Units (SWMUs) 2, 3, 4, 5, 6, 7, 30, and 145. Sample borings performed under the RI/FS Work Plan are complete.

UPCOMING WORK

Work planned in next 60 days:

- Complete draft of RI Report for DOE review

Documents Scheduled (D1 versions)



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Contacts:

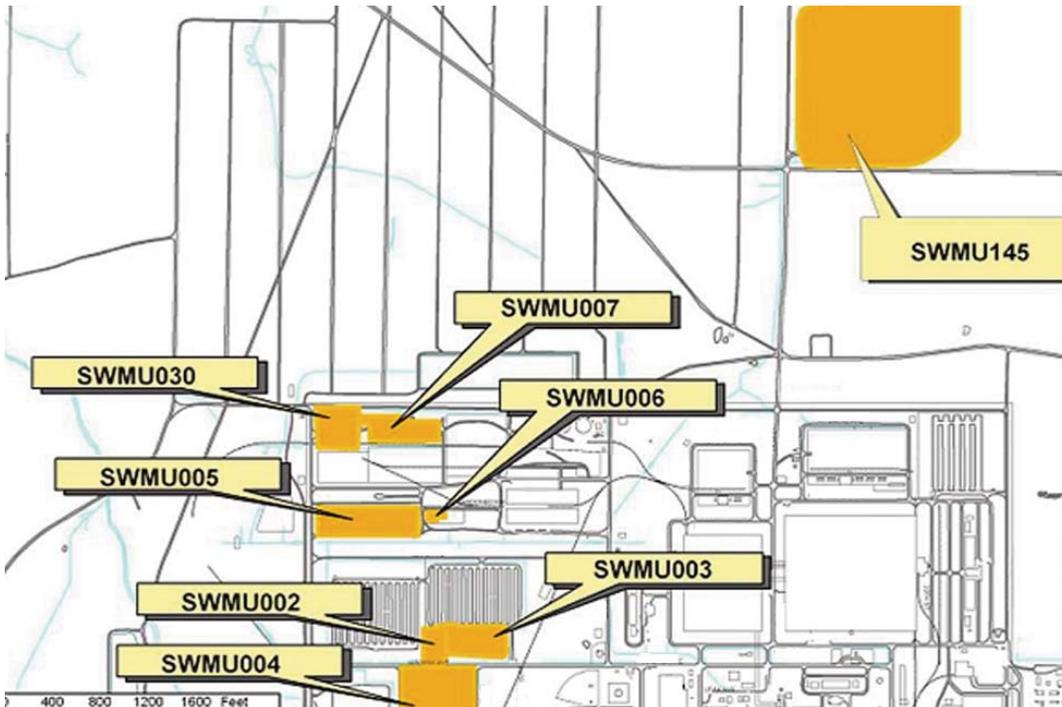
DOE: Jeff Snook
PRS: Tracey Brindley/Karen Holland
Kentucky: Mike Guffey/Brian Begley
U.S. EPA: David Williams

Next Document Deadline:

Remedial Investigation Report for the
Burial Grounds Operable Unit, D1 due
7/25/08; status, on schedule.



The C-404 Burial Ground as it appears today.



This map shows the
Solid Waste
Management Units
included in the BGOU.



Portsmouth/Paducah Project Office

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U.S. Department of Energy Portsmouth/Paducah Project Office Paducah Project Update Surface Water Operable Unit

(November 2007)

PROJECT SCOPE

The Surface Water Operable Unit (On-Site) Project includes a site investigation to identify contamination zones posing unacceptable risks in ditches and outfalls, including Sections 3, 4, and 5 of the North-South Diversion Ditch.

The site investigation scope also includes an evaluation of whether additional sediment control measures are needed, as well as actions for potential legacy releases associated with the storm sewer system.

The results of the site investigation will be documented in a Site Investigation/Baseline Risk Assessment Report followed by non-time-critical removal action documentation, an EE/CA, Action Memorandum, and Removal Action Work Plan.

Project deadlines are specified in the Federal Facility Agreement (FFA), which is an agreement among DOE, Kentucky, and the U.S. Environmental Protection Agency that controls cleanup at the Paducah site.

UPCOMING WORK

Work planned in next 60 days:

- Issue D1 (On-site) EE/CA to EPA and Kentucky
- Obtain regulatory approval of the SWOU Site Investigation/Baseline Risk Assessment

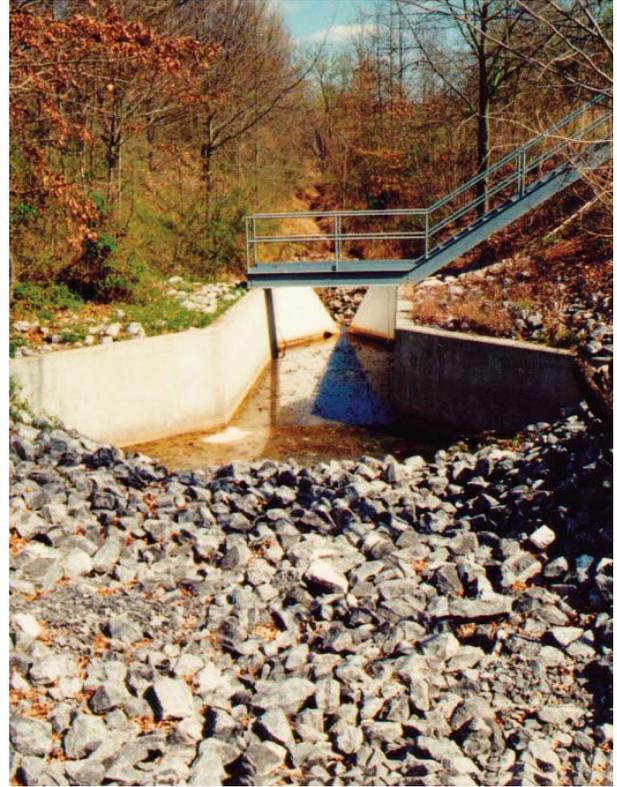
FFA MILESTONES

A request is pending to extend the regulatory milestone for the Action Memo to June 2008 and the Removal Action Work Plan to October 2008.

KEY MILESTONES

ACCOMPLISHED

Issued the D2/R1 Site Investigation/Baseline Risk Assessment to Kentucky and EPA for approval, July 30, 2007.



Outfall 11, located on the east side of the plant, is one of the areas where DOE is evaluating an action to remove "hot spots."

BACKGROUND / KEY DOCUMENTS:

- D2 Sampling and Analysis Plan for Site Investigation and Risk Assessment
- D2 SWOU (On-site) Site Investigation and Baseline Risk Assessment Report at the Paducah Gaseous Diffusion Plant
- D1 SWOU Removal Notification (On-Site)
- D1 SWOU Engineering Evaluation/Cost Analysis



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Contacts:

DOE: David Dollins
PRS: Tracey Brindley/Craig Jones/Jana White
Kentucky: Ed Winner
U.S. EPA: David Williams

Next Document Deadline:

D1 Engineering
Evaluation/Cost Analysis,
January 11, 2008; status, on
schedule.



Included in the scope of the “hot spot” evaluation is Section 4 of the North-South Diversion Ditch. The photo shows the portion of the ditch along the west side of the access road to the C-746-U Landfill.

Documents Scheduled (D1 versions)



Portsmouth/Paducah Project Office

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