

PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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Chair-Elect

Chad Kerley

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John Anderson
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Barry Eadens
Ricky Ladd
Shirley Lanier
Bobby Lee
Linda Long
Janet Miller
John Russell, Ph.D.
Jim Smart, Ph.D.

Deputy Designated Federal Official

William Murphie, DOE
Ex-officio member

Ex Officio Members

Mike Hardin
Fish and Wildlife Resources
(Kentucky)

Eric Scott
Radiation/Environmental
Monitoring Section
(Kentucky)

Jon Maybriar
Division of Waste Management
(Kentucky)

David Williams
Environmental Protection
Agency

DOE Federal Coordinator

David Dollins

*Additional information
about contacting board
members directly can be
obtained by contacting
the board office at
(270) 554-3004.*

Paducah Gaseous Diffusion Plant Citizens Advisory Board Meeting Minutes June 16, 2005

The June 16, 2005 Citizens Advisory Board (CAB) meeting was held at the CAB office in Paducah, Kentucky at 6 p.m.

Board members present: John Anderson, Allen Burnett, Chad Kerley, Shirley Lanier, Linda Long, and Janet Miller

Board members absent: Barry Eadens, Ricky Ladd, Bobby Lee, Rhonda McCorry, John Russell, and Jim Smart

Ex Officio members and related regulatory agency employees present: Jon Maybriar and Vicki Voisard, Kentucky Division of Waste Management; David Williams, Environmental Protection Agency; and Doug Dawson, Kentucky Department Fish and Wildlife Resources

Deputy Designated Federal Official present: William Murphie

DOE Federal Coordinator present: David Dollins

DOE-related employees present: Jeannie Brandstetter, Greg Cook, Kim Crenshaw, Jim Ethridge, Greg Felts, Bob Giroir, Ed Holmes, Lester Hurst, Steve Kay, Bruce Phillips, Steve Polston, V.K. Sazawal, Joe Tarantino, and Jack Zimmerman

Public: Charles and Vicki Jurka

Agenda

Kay asked if there were any proposed modifications to the agenda. Kerley said the Depleted Uranium Hexafluoride (DUF₆) Conversion Facility project update and the Chairs Meeting recap would be postponed until July. He said discussion of the budget would follow the approval of the minutes. **The Board adopted the modified agenda by consensus.**

Minutes

Kay said the May minutes could not be approved without a quorum. The minutes will be approved at the July meeting if a quorum is present.

Deputy Designated Federal Official's Comments

Progress of the Paducah Project

Murphie reported May progress as follows:

- The Paducah Infrastructure contact awarded to Swift & Staley Mechanical, Inc. is scheduled to complete transition by June 27, 2005. A competitive range has been established and the Request for Proposal (RFP) is being amended for the Remediation contract. The Source Evaluation Board will release the amended RFP soon, and discussions will follow. Bechtel Jacobs Company LLC has been extended through August 31, 2005. The DUF₆ Cylinder management including cylinder inspections, maintenance, and relocations to improved storage, is scheduled to transition to Uranium Disposition Services on June 27, 2005.
- Permanent lighting is in place at the DUF₆ conversion facility site. The warehouse foundation and building contract has been awarded. The foundation field work is scheduled to begin by early July. The Facility 90% design work was completed in March and is undergoing review and approval by the DOE.
- A permit modification for a leachate treatment facility at the C-746-U Landfill was received on May 12, 2005. A subcontract was signed with A&K Construction to construct the facility scheduling completion in August 2005. The leachate treatment facility will eliminate routine transfer of leachate to the United State Enrichment Corporation Water Treatment Facility for processing and discharge.
- Drummed material at the DOE Material Storage Area (DMSA) is being removed, sorted, characterized, segregated, and repackaged. 638,000 of 864,000 ft³ of DMSA material has been characterized over the project life. 265,000 ft³ has been packaged and 243,000 ft³ has been shipped over the project life.
- Scrap metal shipments continue to be suspended during May. The Nevada Test Site (NTS) recertification audit is under way, with exit briefing on June 17. NTS has determined that 54 containers of scrap metal disposed of at NTS did not violate

regulations. D-Yard field crews continue to downsize scrap with over 2,600 tons backlogged and ready for loading and shipment. DOE is continuing to work toward shipping 221 containers of scrap metal in SeaLand containers to Envirocare by rail this summer. Approximately 2,300 of 3,000 drums of machine turnings have been processed through May 20, and ready for disposal pending security approval. All 3,000 drums of machine turnings are to be disposed of at Envirocare by October 2005.

- UF₄ drums are being prepared for mid-July shipment to Duratek. Final disposal at Envirocare is scheduled to be completed within Fiscal Year 2005. Approximately 1,600 containers of outdoor Legacy low-level waste has been reviewed and categorized. The first landfill disposal package, consisting of nine roll-off bins of crushed empty bins, is being reviewed.
- At the C-410 Decontamination and Decommissioning complex, extensive asbestos removal has been performed and fixative application has been initiated in Zone 21. The wall demolition has been completed for installation of the Boundary Control Station. Shipping of low-level waste scrap metal from the Hydrogen Fluoride Tank Farm has begun; completion is scheduled for June 2005. The RFP has been issued to remove the Nitrogen Facility as a Maintenance Action. The Engineering Evaluation/Cost Analysis for the Limehouse, Contaminated Item Incinerator, and West End Smelter has been submitted to the Environmental Protection Agency (EPA) and the Commonwealth of Kentucky for review and approval.
- In Legacy Waste disposition, 1,730 ft³ of Agreed Order waste was disposed in the C-746-U Landfill. 5,951 ft³ of Agreed Order waste was shipped to Envirocare. DOE is continuing to process Agreed Order waste for the landfill and Envirocare.
- Comments were received by the Commonwealth of Kentucky on June 15 for the C-400 Source Removal Record of Decision. DOE has 30 days to respond to the comments. The Southwest Plume Proposed Plan was scheduled for submittal to the regulators by July 2, 2005. The Federal Facilities Agreement modification is being prepared to realign milestones due to extensions for document review. Under the revised milestone schedule, the Proposed Plan will be submitted to the regulators by September 7, 2005.
- The Surface Water Operable Unit (SWOU) Sampling and Analysis Plan (SAP) has been approved by the Commonwealth of Kentucky, following resolution of issues. Field work is scheduled to begin in June. Over 3,000 screening samples and 400 lab samples will be collected from soils and sediments of the North-South Diversion Ditch (NSDD) Sections 3, 4 and 5, outfalls and internal ditches, and storm sewer discharge water. The Site Investigation/Baseline Risk Assessment will be submitted to the regulators during the Summer of 2006.
- The Burial Grounds Operable Unit Remedial Investigation/Feasibility Work Plan is scheduled to be submitted to the regulators by June 30, 2005.

Health and Safety

Murphie said the Scrap Metal project is continuing to move forward safely. He said one minor reportable injury has happened recently.

Other Issues

Murphie said DOE arranged for the transfer of 657 cylinders of depleted uranium to Bonneville Power Administration and Energy Northwest. He said this would result in a tremendous cost savings on conversion for DOE and would also benefit Bonneville Power. He said DOE is looking at expanding this arrangement and moving forward with additional solicitation on transferring depleted uranium.

Federal Coordinator Comments

Dollins said he is finalizing the response to the CAB's End State Vision recommendation from fiscal year 2004.

Dollins said the Burial Grounds Operable Unit Remedial Investigation/Feasibility Work Plan is scheduled to be submitted to the regulators by June 30, 2005. He said it would be open for public comment at that time. This document refers to 3D modeling for levels of contamination.

Dollins welcomed John Anderson to the CAB.

Comments

Miller asked what two outfalls USEC is using to discharge the processed water from the USEC Water Treatment Facility and what outfalls will be used after the construction of the leachate treatment facility is complete. Murphie said he would provide an answer at the next meeting.

Miller asked where the outdoor legacy low-level waste, nine roll-off bins of crushed empty drums, would be disposed. Murphie said, after characterization, the package would go to the C-746-U Landfill.

Kerley asked if the project status updates could be mailed out one week prior to the meeting. Murphie said he would investigate and report to the CAB.

Ex-Officio Comments

Williams said there was a senior management meeting in Lexington the previous week including DOE, EPA, and the Commonwealth of Kentucky. He said DOE provided excellent presentations on the updates and progress of the Paducah site. Murphie said a monthly project managers meeting has been established to increase the communication frequency and expedite the review process.

Public Comments

Vicki Jurka said she had read that DOE is sampling for cesium in the NSDD and asked the source of the material. Maybriar said DOE is not actually looking for cesium. He said there is a co-contaminate study that was done indicating contaminants can mimic other metals. He said they are looking for cesium as a surrogate for other metals. He said a list of these metals is found in the Sampling and Analysis Plan for the Surface Water Operable Unit. Miller asked what advantage exists for sampling for surrogates instead of the actual metal. Murphie said certain isotopes have signatures or strong enough gamma for the field scan to identify it. He said to identify the other metals, it would take chemical screening process, which takes longer. Williams said this method has generally been used in a large area of unknowns. This approach using key contaminants to look for co-contaminants was created for this reason.

Vicki Jurka asked who owns the DUF₆ cylinders that are going to Bonneville. Murphie said the cylinders are currently owned by DOE, but they will be transferring them to Bonneville who will use them as part of their fuel cycle for Energy Northwest. Jurka asked why USEC can't further enrich what they are generating and Murphie said most of the material was generated when DOE operated the plant. He said depending on the parameters that were economically viable at the time, DOE took natural uranium at .7 percent, and ran it through the plant. Essentially, half the natural uranium residual is still there. The uranium value today makes it economically attractive to go back to the remaining material and strike more uranium. Murphie said the cost of uranium is high enough today that the process pays for itself.

Task Forces/Presentations

Long-Range Strategy/Stewardship

Kerley said the task force is discussing dates for the Member Orientation/Site Tour. He said if anyone would like to suggest a date, please contact the support staff.

Kerley said the task force viewed a DVD in Oak Ridge's Education Resource Kit for a viable tool for long-term stewardship. He said the kit would target seven local high schools and one college. Brandstetter said she have the clip loaded onto the Web site.

Kerley said the Chairs Meeting at the Idaho National Engineering and Environmental Laboratory site would be September 21-23. If anyone is interested in attending, contact the support staff.

Community Outreach

Brandstetter said the Web site is still being updated. She said a letter from the governor is included in the packet, acknowledging the letter that was sent from the CAB regarding membership. She said the task force is researching hosting the Speakers Bureau at the McCracken County Library in December or January.

Administrative Issues

Review of Workplan

Miller said she had moved from the Water Quality task force to the Long-Range Strategy Stewardship task force. She said she is scheduled for a presentation in October that would need to be presented by a member of the Water Quality task force.

Review of July Agenda

Kerley requested adding the DUF₆ presentation and the Chairs Meeting Recap to the July agenda as placeholders. He said approval of the May minutes would need to be added to the July agenda.

Polston said to contact him when the CAB would like a brief presentation on the infrastructure role with Swift and Staley.

Action Items

All action items are closed.

Subcommittee Reports

Executive Committee

Kerley said the CAB would like members of the public to be included in the site tour of the Paducah Gaseous Diffusion Plant.

Kerley said a note was received from Sandra Waisley stating the new Designated Federal Officer would be Douglas Frost. A response from Charles Anderson regarding the National Stakeholders letter is included in the packet. The current CABfare and the Oversight News is also included in the packet.

The meeting adjourned at 7:20 p.m.

Progress at the PADUCAH PROJECT

Update to the Citizens Advisory Board

June 16, 2005



William E. Murphie
Manager
Portsmouth/Paducah Project Office
U.S. Department of Energy



Contractor Transitions

-- Infrastructure

- Transition to Swift & Staley Mechanical Contractors, Inc. proceeding
- Assumes full responsibility for infrastructure June 27, 2005

-- DUF₆ Cylinder Management

- Includes cylinder inspections, maintenance and relocations to improved storage
- Will transition to UDS June 27, 2005

-- Remediation

- The Department has elected to take Corrective Action
- A Competitive Range has been established and the RFP is being amended
- The Source Evaluation Board will release the amended RFP soon, and discussions will follow
- Bechtel Jacobs' contract has been extended through August 31, 2005.





DUF₆ Conversion Project

- Permanent site lighting in place
- Warehouse foundation contract awarded
- Foundation field work to begin by early July
- Warehouse building contract award soon
- Facility 90% design work completed in March 2005 and undergoing DOE review and approval



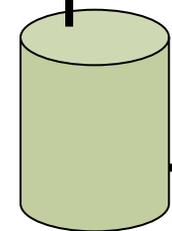
Site lighting is now available at the DUF₆ plant site



C-746-U Landfill

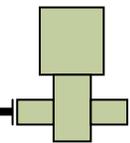
- Received permit modification for leachate treatment facility May 12, 2005
- Signed subcontract with A&K Construction to construct facility
- Completion in August 2005
- Will eliminate routine transfer of leachate to USEC Water Treatment Facility for processing and discharge

From leachate collection

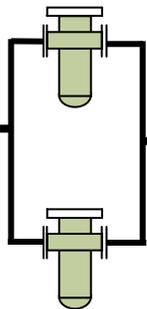


INFLUENT TANK

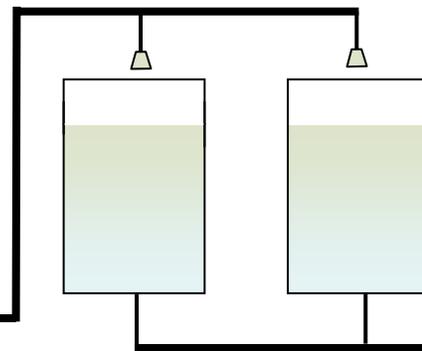
1,500 gallon



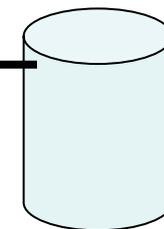
FEED PUMP



FILTERS



FLOWSORB



EFFLUENT TANK

1,500 gallon

To discharge →



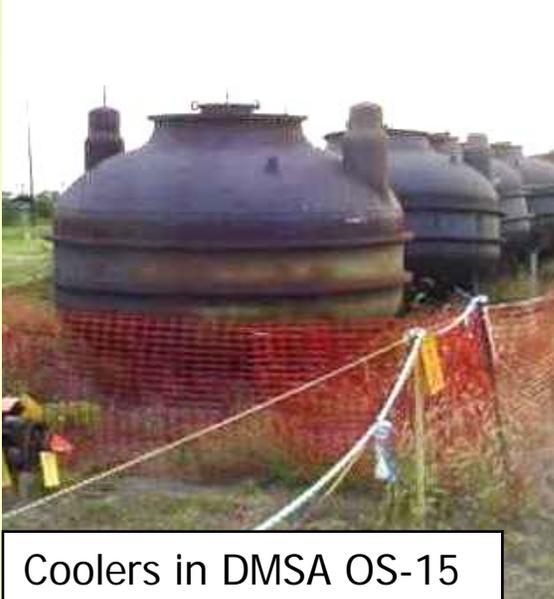
DMSAs

- Drummed material being removed, sorted, characterized, segregated, and repackaged
- Six of 14 coolers from DMSA OS-15 have been sized for disposal

May

Project Life

- | | | |
|-----------------|------------------|-------------------------------|
| • Characterized | 1,200 cubic feet | 638,000 of 864,000 cubic feet |
| • Packaged | 1,300 cubic feet | 265,000 cubic feet |
| • Shipped | 930 cubic feet | 243,000 cubic feet |



Coolers in DMSA OS-15



Cutting down cooler for packaging



Preparing to wrap section for disposal



Scrap Metal Removal

- NTS recertification audit underway this week, with exit briefing Friday, June 17
- Nevada has determined that 54 containers of scrap metal disposed at NTS did not violate regulations
- D-Yard field crews continue to downsize scrap; over 2,600 tons backlogged and ready for loading/shipment
- Continuing to work toward shipping 221 containers of scrap metal already in SeaLand containers to Envirocare by rail this summer
- Continuing to study cost-effectiveness of additional shipments to Envirocare by rail





Scrap Metal Turnings

- Approximately 2,300 (90%) of 3,000 drums of machine turnings processed through May 20, and ready for disposal pending security approval
- All 3,000 drums to be disposed at Envirocare by October 2005

Processing drums
of metal turnings

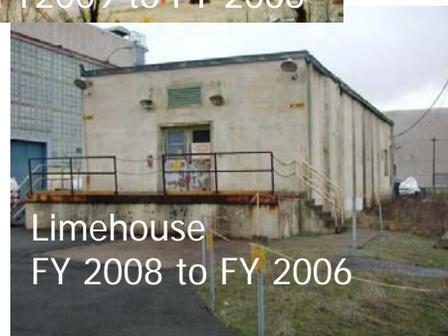
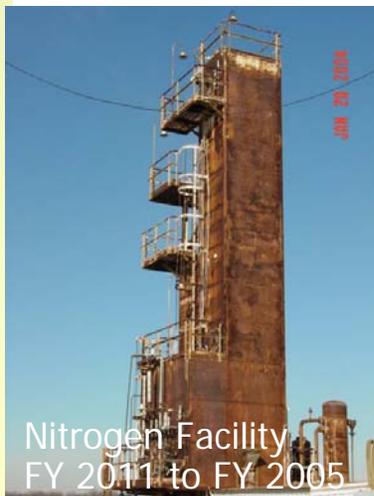
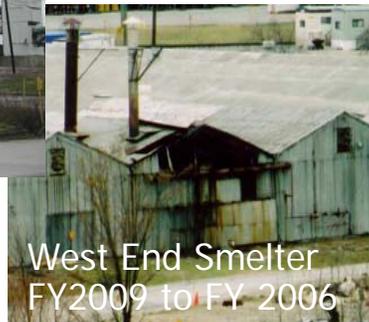
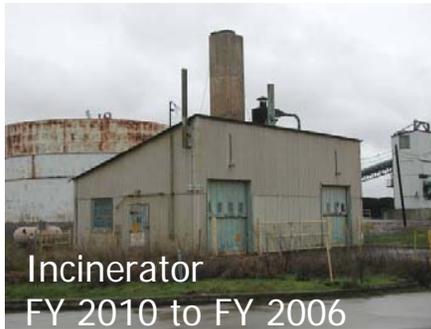




Expedited Cleanup Projects

UF4 Drums

- Preparing for shipments to Duratek starting in mid-July
- Final disposal at Envirocare to be completed within FY 2005



Outdoor Legacy LLW

- Approximately 1600 containers reviewed and categorized
- Reviewing first landfill disposal package, for nine roll-off bins of crushed empty drums



Inactive Facilities D&D

Nitrogen Facility

- Issued Request for Proposal as Maintenance Action
- Evaluating proposal from subcontractor



Limehouse, Contaminated Item Incinerator, and West End Smelter

- D1 Engineering Evaluation /Cost Analysis submitted to EPA and Kentucky June 10, 2005 for review and approval

Walkdown of Limehouse equipment



C-410 D&D

- Asbestos sampling showed presence of asbestos in Zone 21
- Performed extensive asbestos removal (vacuuming) and initiated fixative application
- Completed walls demolition for installation of Boundary Control Station



C-420 BCS Area, before demolition and after fixative application



C-410 D&D Waste

- Began shipping low-level waste scrap metal from HF Tank Farm using new and improved intermodal containers
- Waste includes platforms, railings, walkways, structural steel
- Completion in June 2005



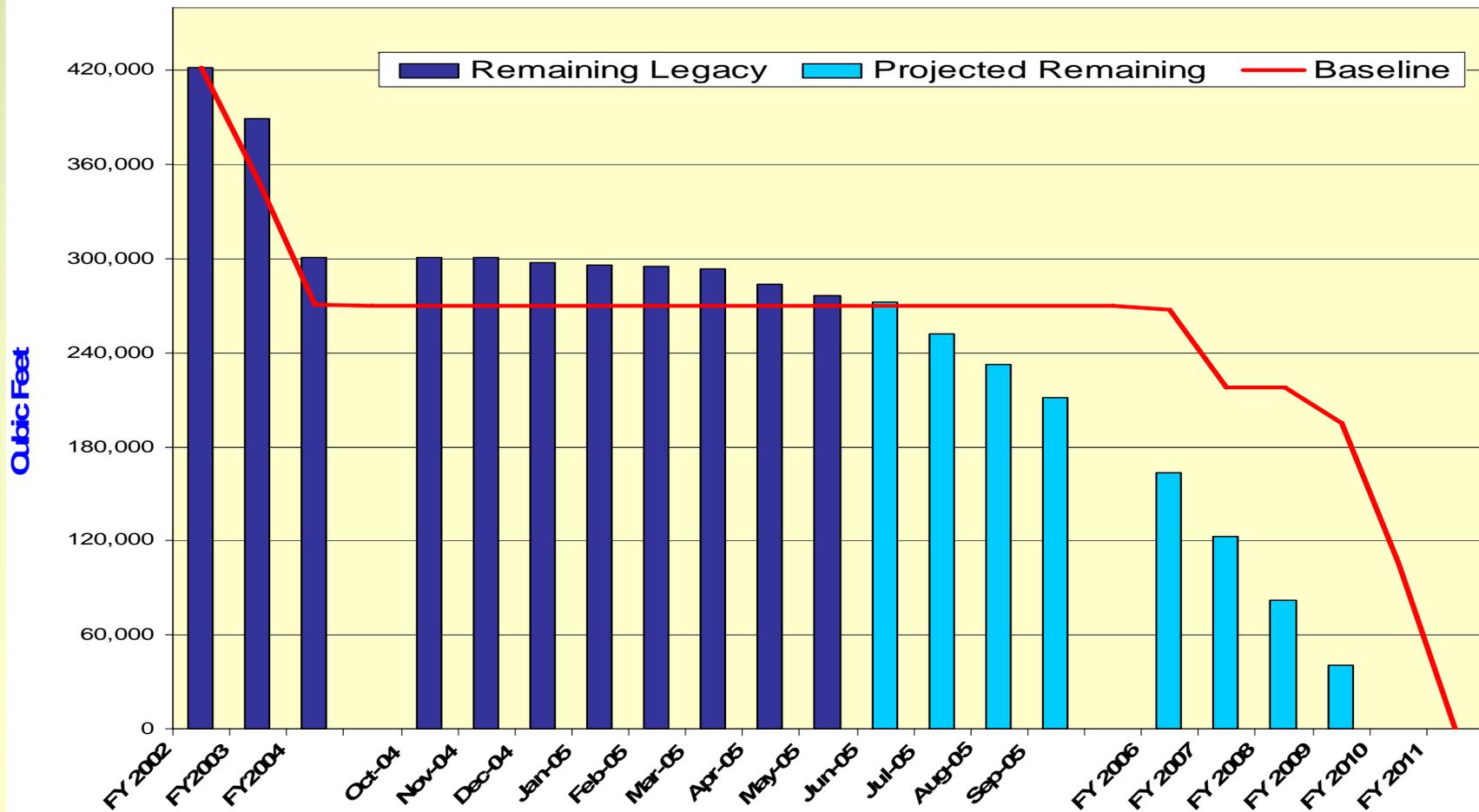
"205" removable hard top, steel floor intermodal containers of HF tank debris—first of 12 to be shipped



Legacy Waste Disposition

May

- Disposed 1,730 cubic feet of Agreed Order waste in the C-746-U landfill
- Shipped 5,951 cubic feet of Agreed Order waste to Envirocare
- Continued processing Agreed Order waste for landfill and Envirocare

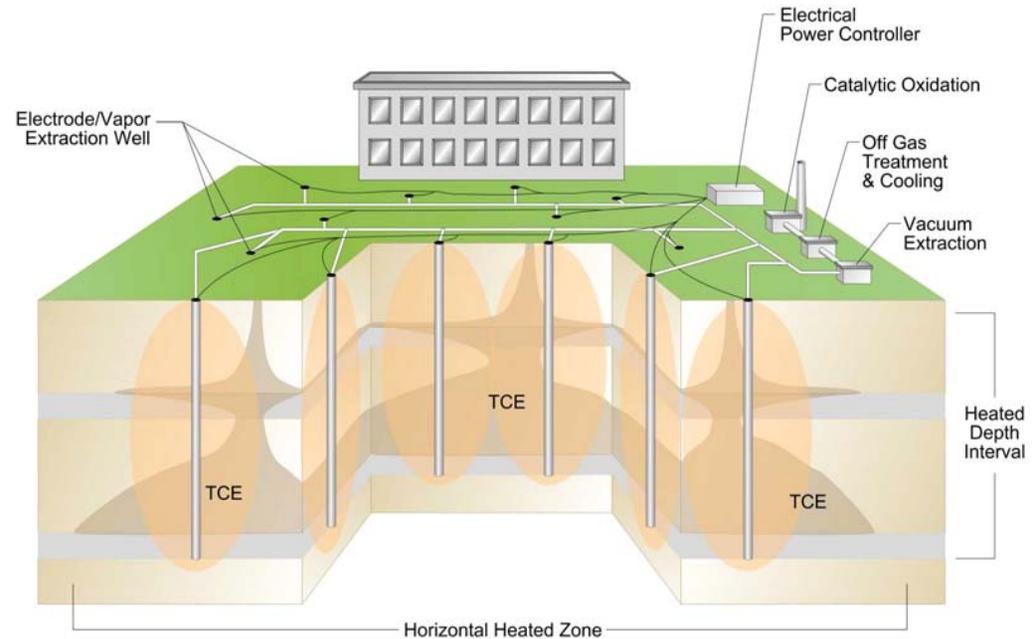




Groundwater Operable Unit

C-400 ROD

- Kentucky comments received June 15
- DOE has 30 days to respond



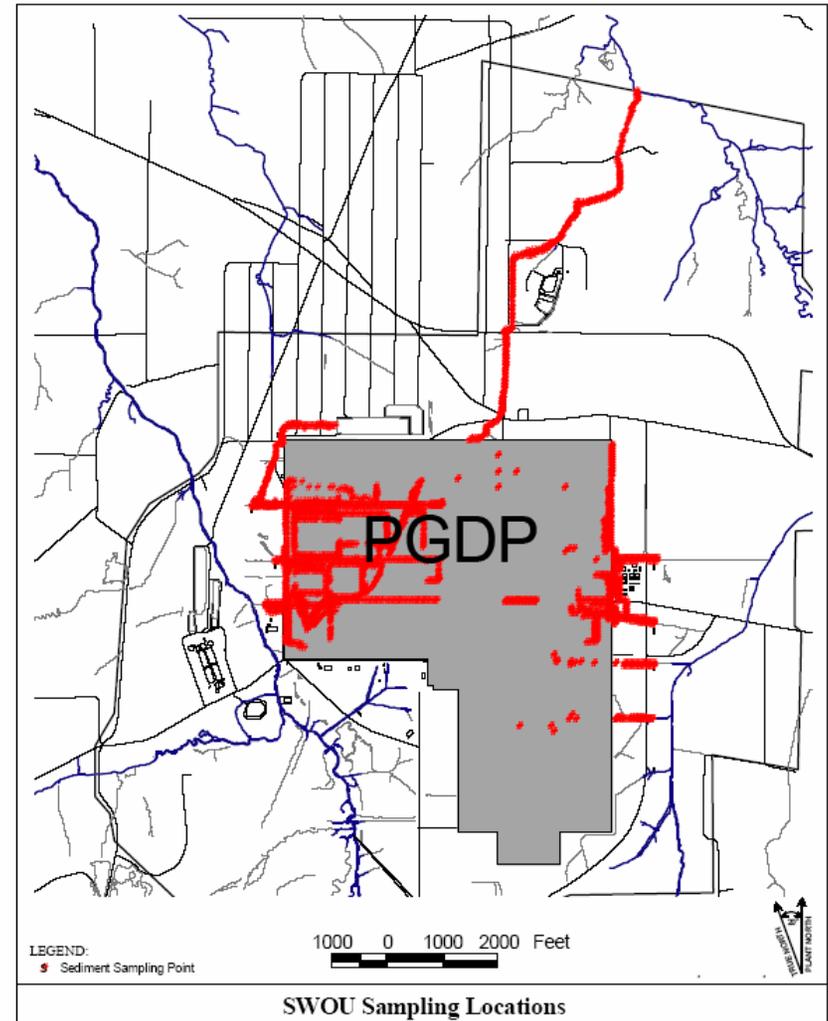
Southwest Plume

- D1 Proposed Plan was scheduled for submittal to regulators by July 2, 2005
- FFA modification being prepared to realign milestones due to extensions for document review
- Under a revised milestone schedule, D1 Proposed Plan submittal to regulators by September 7, 2005



Surface Water Operable Unit

- D2 Sampling and Analysis Plan (SAP) approved by Kentucky, following resolution of issues (previously approved by EPA)
- Field work to begin June 20, 2005
- Over 3,000 screening samples and 400 lab samples will be collected from soils and sediments of NSDD Sections 3, 4 and 5, outfalls and internal ditches, and storm sewer discharge water
- Site Investigation/Baseline Risk Assessment will be submitted to the regulators during the summer of 2006





Burial Grounds Operable Unit

- D1 Remedial Investigation/Feasibility Study Work Plan on schedule for submittal to regulators by June 30, 2005



C-746-F Burial Ground



**Project Status Update for Paducah DOE Citizens Advisory Board
June 16, 2005**

Project: Surveillance/Maintenance & Conversion, Depleted Uranium Hexafluoride (DUF₆)

Contact Persons:

DOE Site Office: John Sheppard

Bechtel Jacobs Company LLC (surveillance/maintenance): Don Ulrich/Craig Dowdy

Commonwealth of Kentucky:

U.S. Environmental Protection Agency:

Citizens Advisory Board:

Purpose: Maintain safe storage of DOE DUF₆ cylinder inventory pending disposition.

Description: The Atomic Energy Act, as amended, gives DOE responsibility for the DUF₆ inventory, which is a by-product from enriching uranium for nuclear fuel. At Paducah, approximately 36,200 cylinders contain approximately 436,400 metric tons of DUF₆. There are also 182 cylinders of low-enriched UF₆, about 1,500 cylinders of "normal" UF₆ (which has not gone through the enrichment process), and 275 empty cylinders. The DOE inventory at Paducah includes the material generated from 1952 until the establishment of USEC in July 1993, and material transferred from USEC to DOE since that time. **Surveillance and maintenance** involves safely storing DUF₆. Most of the 60-acre DOE cylinder yard complex now consists of concrete yards, which provide for improved storage and inspection. In recent years, DOE cleaned and painted 3,368 cylinders which had surface corrosion. DOE continually monitors and inspects its cylinder inventory to assure safe storage. **Conversion** is expected to begin in 2006. DOE selected Uranium Disposition Services LLC to design, build, and operate facilities in Paducah and Portsmouth to convert DUF₆ to a more stable form for disposal or recycling. DOE is reviewing draft conceptual design reports for the conversion facilities. Construction began in July 2004.

Key Documents for surveillance/maintenance:

- Handling and Inspection of DOE 48-Inch Diameter UF₆ Cylinders at Paducah (PA-2400)
- Agreed Order DWM-31434-030
- Final Environmental Impact Statement for the Construction and Operation of the DUF₆ Conversion Facility at the Paducah Site (DOE/EIS-0359)
- Record of Decision for Construction and Operation of the DUF₆ Conversion Facility
- Documented Safety Analysis for the DOE Cylinder Yards, BJC/PAD-459
- Technical Safety Requirements for the DOE Cylinder Yards, BJC/PAD-461

Issues: (none)

Recent accomplishments/activities:

- Completed 12,709 cylinder inspections in FY 2005 through May
- 9,969 radiological surveys completed
- 1,908 cylinder skirt cleanings completed
- Completed 376 cylinder relocations to improved storage in May; 849 in FY 005
- Conversion plant warehouse building foundation contract awarded
- Facility 90% design under DOE review

Activity over next 60 days for surveillance/maintenance:

- Begin warehouse foundation field work
- Issue warehouse building contract.

Project Status Update for Paducah DOE Citizens Advisory Board

June 16, 2005

Project: Solid Waste Contained Landfill

Contact Persons:

Bechtel Jacobs Company LLC: Steve Davis/Dwight Lamb

Commonwealth of Kentucky: Todd Hendricks

U.S. Environmental Protection Agency: David Williams

Citizens Advisory Board: John Russell

Purpose: Waste Disposition

Description: The 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 (KDWM). 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 non-hazardous soil and debris from environmental cleanup and other DOE projects, protective clothing worn by workers, paper, packaging, and landfill office wastes. No waste classified as hazardous or radioactive is accepted.

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-111R4)
- C-746-U Landfill Solid Waste Disposal Facility Permit Number 073-00045

Issues: None

Recent accomplishments/activities:

- Disposed of 91 tons of waste in May
- Received permit modification for construction of a leachate treatment facility May 12, 2005
- Signed subcontract for construction of leachate treatment facility
- Initiated fabrication of leachate treatment unit.

Activity over next 60 days:

- Continue disposal of construction debris and other non-hazardous solid waste streams
- Support the Kentucky Research Consortium for Energy and Environment Holocene Displacement Study
- Construct leachate treatment facility, to be completed in August 2005.

Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005
Project: Waste Disposition

Contact Persons:

Bechtel Jacobs Company LLC: Pat Gourieux/Greg Shaia
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board: John Russell

Purpose: Waste Disposition

Description: DOE is responsible for disposal and/or recycling of 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, non-hazardous and non-radioactive wastes are disposed of in the DOE Solid Waste Contained Landfill. *(Please see landfill update 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.

Key documents:

- Paducah Waste Acceptance Criteria (BJC/PAD-11, Revision 4)
- Final Environmental Assessment for Proposed Disposition of Waste from the Paducah Site (DOE/EA-1339 and Addendum DOE/EA-1339-A) (FONSI)
- Agreed Order DWM-31434-042
- Site Treatment Plan DWM-30039-42

Issues:

- Because of transportation related issues at Paducah, BJC self-suspended off-site shipments in September 2004 pending a review of the shipping program. Waste Disposition Project schedules are being revised as effort continues in developing the corrective actions necessary to resume safe, compliant shipments. Off-site shipments have resumed, except to the Nevada Test Site.

Recent accomplishments/activities:

- Disposed 1,730 cubic feet of Agreed Order waste in the C-746-U landfill
- Shipped 5,951 cubic feet of Agreed Order waste to Envirocare
- Processing of Agreed Order waste for landfill disposal and shipment to Envirocare continues

Activity over next 60 days:

- Continue shipment of mixed low-level waste to PermaFix facility and Envirocare
- Continue disposition of solid waste in the C-746-U Landfill
- Continue disposition of ~ 5100 containers of Agreed Order "no-longer contains" waste at Envirocare or the C-476-U Landfill, as appropriate
- Begin shipments of UF4
- Begin disposition of approximately 2000 containers of LLW stored in outside facilities.

**Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005**

Project: Decontamination & Decommissioning (D&D)

Contact Persons:

Bechtel Jacobs Company LLC: Brad Montgomery
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board:

Purpose: Environmental Cleanup/Waste Disposition

Description: The D&D project has completed development of Comprehensive Environmental Response, Compensation, and Liability Act regulatory documentation and has initiated actual D&D of the C-410/420 Feed Plant Complex. The current scope of D&D includes infrastructure removal on the C-410/C-420 complex, as well as ongoing surveillance and maintenance of the C-410/C-420 complex and the C-340 Metals Plant complex. Scope also included development of Safety Basis Documentation for the removal of equipment, piping, and stored material from the C-410 Complex. Operations at both complexes ended in 1977.

Key documents (C-410):

- 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

Issues:

- Commonwealth of Kentucky permit regulations are more stringent than Federal Regulations, and will not allow disposition of scrap metal from tank farm demolition in the C-746-U Landfill due to levels of PCBs in the paint.
- Disposition of HF Tank Farm Residuals was delayed during the transportation suspension
- Schedule for feed plant equipment demolition and removal has been impacted as a result of minimizing waste generation while shipment issues are being resolved.

Recent accomplishments/activities:

- Performed extensive cleaning (vacuuming) and initiated fixative application after asbestos clearance sampling indicated presence of asbestos in Zone 21
- Shipped LLW waste from C-410 HF Tank Farm to Envirocare
- Issued RFP for removal of C-603 Nitrogen Facility as a maintenance action
- Initiated evaluation of response to C-603 RFP from subcontractor
- Submitted D1 Engineering Evaluation/Cost Analysis (EE/CA) for C-402 Limehouse, C-405 Incinerator and C-746-A West End Smelter to EPA and Kentucky on June 10, 2005

Activity over next 60 days:

- Continue packaging of loose materials in C-410 Complex
- Complete landfill package and disposition material from C-410-A Hydrogen Holder in landfill
- Complete packaging and shipment of scrap metal from HF Tank Farm for disposition at Envirocare

Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005
Project: DOE Material Storage Areas (DMSAs)

Contact Persons:

Bechtel Jacobs Company LLC: Rick Keeling
Commonwealth of Kentucky: Jon Maybriar/Mike Guffey
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board:

Purpose: Environmental Cleanup/Waste Disposition

Description: The 160 DMSAs are non-leased areas inside buildings, as well as outdoor areas. DOE accepted the return of the areas that are now the DMSAs, 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 that time, DOE and contractors have been documenting contents, resolving environmental concerns such as draining and disposing of oils from old equipment, and segregating and disposing of wastes.

Key documents:

- PGDP Department of Energy Material Storage Area Characterization/Remediation Plan (BJC/PAD-186/R4), April 2001
- Agreed Order DWM-31434-042
- Documented Safety Analysis (DSA)

Issues:

- Because of recent shipment difficulties at Paducah, BJC self-suspended shipments pending a programmatic review. This review included transporting waste to the C-746-U Landfill and off-site disposal facilities. Shipments have now resumed to the Landfill and to off-site facilities except the Nevada Test Site.

Recent accomplishments/activities:

- A total of 1,200 cubic ft. of material was characterized during May, including approximately 260 cubic feet sampled and awaiting results. Approximately 638,000 cubic ft. of material has been characterized to date.
- 1,300 cubic ft. packaged for disposal in the month of May; 265,000 cubic ft. over project life (recalculated over the last 30 days)
- 930 cubic ft. disposed in May; 243,000 over project life (recalculated over the last 30 days)
- Six of 14 coolers from DMSA OS-15 have been resized and packaged
- Drummed material being removed, sorted, characterized, segregated, and packaged for disposal

Activity over next 60 days:

- Continue packaging and disposition of DMSA OS-15 material
- Pursue disposition of OS-4 and OS-14 material
- Pursue boundary removal of OS-02, C-331-04, -07, and -20
- Continue characterization of "Priority B" DMSAs under the Agreed Order

**Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005**

Project: Groundwater Operable Unit

Contact Persons:

Bechtel Jacobs Company LLC: Bryan Clayton/Craig Jones
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board:

Purpose: Environmental Cleanup

Description: This project addresses environmental remediation of groundwater contamination on a site-wide basis at the Paducah Gaseous Diffusion Plant. The main contaminants of concern are trichloroethylene (TCE) and technetium-99 (⁹⁹Tc). Remedial actions will be designed and implemented after completion and signing of Records of Decision (RODs).

Key documents:

- Feasibility Study of the Groundwater Operable Unit at PGDP (DOE/OR/07-1857)
- Agreed Order DWM-31434-042
- Six-Phase Treatability Report (DOE/OR/07-2113)
- Proposed Remedial Action Plan for the Volatile Organic Compound Contamination at the C-400 Cleaning Building (DOE/OR/07-2114)
- Southwest Plume Site Investigation Workplan (DOE/OR/07-2094)
- S&T Landfill Site Investigation Workplan (DOE/OR/07-2098)
- Record of Decision for Interim Removal Action for the Volatile Organic Compound Contamination at the C-400 Cleaning Building (DOE/OR/07-2150)

Issues: None

Recent accomplishments:

- Continued development of the Southwest Plume Site Investigation Proposed Plan
- Received Kentucky comments on D2 C-400 ROD June 15, 2005
- Completed 90% contracting package for RFP for selecting a remedial contractor for the implementation of electrical resistive heating/direct heating in the C-400 area.

Activity over next 60 days:

- Respond to Kentucky comments on D2 C-400 ROD by July 15, 2005
- Continue development of the Remedial Design Work Plan to support development of the C-400 Remedial Action design and construction specifications for submission
- Submit the C-746-S&T Landfill Site Investigation Report
- Obtain C-400 ROD signature in Summer 2005

FFA Milestones:

- Submit the D1 C-400 Remedial Design Work Plan within 30 days after signing of ROD
- Submit the D1 S&T Landfill Site Evaluation Report by September 30, 2005 (date to change with proposal for new milestones).

Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005
Project: Surface Water Operable Unit (On-Site)

Contact Persons:

Bechtel Jacobs Company LLC: Dave Guyan/Craig Jones
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board:

Purpose: Environmental Cleanup

Description: The Surface Water Operable Unit (On-Site) Project includes a site investigation to identify hot spots 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 and non-time-critical removal action documentation, as appropriate.

Key documents:

- Sampling and Analysis Plan for Site Investigation and Risk Assessment of the Surface Water Operable Unit (On-Site)

Issues: None

Recent accomplishments:

- EPA issued unconditional approval of the sampling proposed in the D2 SWOU SAP on January 18, 2005; KDEP conditionally approved on February 3, 2005
- Teleconference held April 28, 2005 with DOE, KDEP and EPA to discuss KDEP issues, which were in Formal Dispute
- Formal Dispute issues resolved in meeting on May 4, 2005
- Submitted revised D2/R2 SAP on May 13, 2005
- Received KDEP SAP approval letter on May 13, 2005
- Began preparation for field sampling activities
- Began field mobilization activities on June 13, 2005.

Activity over next 60 days:

- Begin sampling June 20, 2005.

FFA Milestones:

- Issue Site Investigation/Risk Assessment Report by April 27, 2006
- Issue Removal Notification by June 23, 2006.

Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005
Project: Scrap Metal Removal Project

Contact Persons:

DOE Site Office:

Bechtel Jacobs Company LLC: Chris Marshall/Wes Bass/Craig Jones

Commonwealth of Kentucky: Jon Maybriar

U.S. Environmental Protection Agency: David Williams

Citizens Advisory Board:

Purpose: Environmental Cleanup/Waste Disposition

Description: About 54,000 tons of scrap metal exists at the PGDP. This project involves the removal of 26,700 tons of general scrap metal, 2,000 tons of aluminum ingots, and 15,600 tons of classified material. This project does not include the recycling or disposal of 9,700 tons of nickel.

Key documents:

- Engineering Evaluation and Cost Analysis
- Action Memorandum
- Removal Action Work Plans
- Agreed Order DWM-31434-042
- Documented Safety Analysis (DSA)

Issues: Several sealand containers packaged for transport of general scrap to NTS leaked moisture prior to shipment. Container inspections identified the presence of circuit boards and other electronic devices that conflict with the NTS waste acceptance criteria. Currently shipments to NTS are suspended and scrap metal waste has not been shipped off site in several months.

Recent accomplishments:

- Approximately 2,850 drums of machine turnings (of an estimated 3,000) have been processed and packaged for shipment and disposal
- Over 172 tons of D-yard scrap is packaged and ready for shipment.

Activity over next 60 days:

- Complete development of corrective actions and begin implementation to resume scrap metal shipments from C-746-D yard to NTS (NTS audit scheduled for the week of June 13)
- Continue disposition operations by inspecting, sorting, size-reducing and packaging scrap metal
- Complete the inspection, segregation, and packaging of machine turnings waste
- Obtain security approval for shipment and disposal of machine turnings waste
- Initiate shipment of machine turnings waste to Envirocare for treatment and disposal
- Initiate shipment of cargo containers of scrap metal to Envirocare via rail for disposal
- Resume shipment of scrap metal to NTS following recertification of waste disposition program.

**Project Status Update for DOE Paducah Citizens Advisory Board
June 16, 2005
Project: Burial Grounds OU**

Contact Persons:

Bechtel Jacobs Company LLC: John Young/Craig Jones
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board: John Russell

Purpose: Environmental Cleanup/Waste Disposition

Description: A Remedial Investigation/Feasibility Study (RI/FS) Scoping Document has been developed to assist in preparation of the RI/FS Work Plan for the investigation and possible subsequent remediation of the Burial Ground Operable Unit (BGOU) at PGDP. The document utilizes a compilation of sampling information collected on and around the PGDP over the course of the last ten years. The subject of this scoping document is the BGOU (Solid Waste Management Units [SWMUs] 2, 3, 4, 5, 6, 7, 30, and 145).

Key documents:

- D1 Burial Grounds OU Scoping Document
- D1 Burial Grounds Work Plan

Issues: None

Recent accomplishments:

- D1 Burial Grounds OU Scoping Document was issued November 23, 2004
- State and EPA comments were discussed in a series of meetings, including one on March 17, 2005, and will be addressed in the Work Plan.

Activity over next 60 days:

- D1 Work Plan is scheduled to be completed and distributed on June 30, 2005