



PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

111 Memorial Drive • Paducah, Kentucky 42001 • (270) 554-3004 • paducahcab@bellsouth.net • www.pgdpcab.org

Chair	Tentative Agenda for the February 16, 2006 Meeting:	
Chad Kerley	5:30	
Chair-Elect	Informal discussion	
Rhonda McCorry	6:00	
Board Members	Call to order, introductions	
John Anderson	Review of agenda	
Allen Burnett	Approval of January minutes	
Barry Eadens	DDFO's Comments	-- 20 minutes
Shirley Lanier	Federal Coordinator Comments	-- 5 minutes
Bobby Lee	Ex-officio Comments	-- 10 minutes
Linda Long	Public comments and questions	-- 10 minutes
Janet Miller	Task Forces/Presentations	-- 60 minutes
John Russell, Ph.D.	<ul style="list-style-type: none"> ▪ Site Management Plan – John Morgan, BJC ▪ Waste Disposition/Water Quality Task Force 	
Jim Smart, Ph.D.	End State Maps	
Deputy Designated Federal Official	Public comments and questions	-- 10 minutes
William Murphie, DOE	Break	-- 10 minutes
Ex-officio member	Administrative Issues	
Ex Officio Members	<ul style="list-style-type: none"> ▪ Preparation for March Presentation ▪ Vote on Bylaws and Operating Procedures ▪ Budget Review ▪ Review of Workplan ▪ Review Next Agenda 	
Mike Hardin	Review of Action Items	-- 5 minutes
Fish and Wildlife Resources (Kentucky)	Subcommittee Reports	-- 15 minutes
David Williams	<ul style="list-style-type: none"> ▪ Executive Committee 	
Environmental Protection Agency	Final Comments	
Eric Scott	Adjourn	
Radiation/Environmental Monitoring Section (Kentucky)		
Jon Maybriar		
Division of Waste Management (Kentucky)		
DOE Federal Coordinator		
David Dollins		
<i>Additional information about contacting board members directly can be obtained by contacting the board office at (270) 554-3004.</i>		



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Paducah Gaseous Diffusion Plant Citizens Advisory Board Meeting Minutes February 16, 2006

The Citizens Advisory Board (CAB) met at the CAB office in Paducah, Kentucky, February 16, 2006, at 6 p.m.

Board members present: John Anderson, Allen Burnett, Barry Eadens, Chad Kerley, Shirley Lanier, Bobby Lee, Linda Long, Jim Smart, and Rhonda Smith

Board members absent: Janet Miller and John Russell

Ex Officio members and related regulatory agency employees present: Bill Clark, Jon Maybriar, Kentucky Division of Waste Management; Tim Kreher, Kentucky Department of Fish and Wildlife Resources; and David Williams, Environmental Protection Agency

Deputy Designated Federal Official present: Rachel Blumenfeld

DOE Federal Coordinator present: David Dollins

DOE-related employees present: Rich Bonczek, Jeannie Brandstetter, Greg Cook, Kim Crenshaw, Edward Doubleday, Bruce Gardner, Guy Griswald, Steve Kay, Jim Kannard, Ricky Keeling, Diane McDaniel, James Miller, John Morgan, Steve Polston, Joe Tarantino, Elizabeth Trawick and Jack Zimmerman

Two members of the public attended the meeting.

Agenda

Kay asked for proposed modifications to the agenda. Dollins said the Site Management Plan (SMP) presentation would be postponed until regulator comments are received. He suggested adding the presentation to the March or April Board agenda. **The Board adopted the agenda by consensus.**

Minutes

Kay asked for proposed modifications to the draft January minutes. There were none. **The Board approved the minutes as submitted by consensus.**

Deputy Designated Federal Official *Attachment 1*

Blumenfeld provided the project updates to the Board. Questions and answers (paraphrased) appear below.

Question/comment	Answer
Mr. Burnett – Are the railroad cars carrying scrap metal to EnergySolutions being reused?	Ms. Blumenfeld –Yes.
Mr. Burnett – Why is the baseline bar flat for so many months in the Legacy Waste Disposition chart?	Ms. Blumenfeld – Legacy Waste has no regulatory driver. After regulatory requirements are met on other projects, this project would use extra funds that were available and plus-up funds.
Ms. Blumenfeld – A team from DOE Headquarters will be examining the dissolve phase of the groundwater at the site. The studies that have been conducted and data that has been collected will be examined for ideas to consider as the groundwater evaluation moves forward.	
Mr. Burnett – Is April 23 still the transition date for Paducah Remediation Services (PRS)?	Ms. Blumenfeld – Yes.
Mr. Burnett – Since PRS has been awarded the contract, one of the principle contractors for PRS has been bought out by EnergySolutions. Are there any legal or other issues that may affect transition?	Ms. Blumenfeld – None that I have been briefed on. I don't know what kind of conflict issues may be there. I don't think there will be any issues with security clearances. There may be issues that Bechtel Jacobs Company LLC (BJC) and PRS may have to explore as far as procurement.

<p>Mr. Kerley – I received an e-mail asking whether the Depleted Uranium Hexafluoride (DUF6) Conversion Facility project had been delayed due to seismic concerns.</p>	<p>Ms. Blumenfeld - DOE has an approved baseline for that project and DOE is working to meet that schedule. The schedule was adjusted to examine the design, seismic issues, and other considerations, but DOE is meeting the approved schedule.</p>
<p>Ms. Smith – Does the group that is coming to investigate the groundwater have any bearing on the land acquisition investigation?</p>	<p>Ms. Blumenfeld – No, the study of the groundwater is completely separate. The groundwater is being looked at to make sure the plumes are understood.</p>
<p>Ms. Smith – Can the CAB get an update on the land acquisition study?</p>	<p>Ms. Blumenfeld – The budget is approved and DOE is in the process of identifying who will perform the study. Dollins and Bonczek will be involved in the study and will keep the CAB posted.</p>

Federal Coordinator Comments

Dollins said DOE has approved multiple burn plans for the West Kentucky Wildlife Management Area.

Dollins said the budget showing \$345,000 is provided in packet. Kerley asked if there would be a contract amendment to reflect the additional budget money. Dollins said that is being worked but will check on that. Trawick said the contract has not been amended at this time.

Dollins said Dr. Russell has requested land use maps. He said a map from the End State document was provided to the Waste/Water task force to begin the discussion. He said he would be developing some overlays that indicate monitoring wells, landfills and the groundwater plumes to go along with the map. Dollins said to further breakdown areas inside the fence may be viewed as pre-decisional and would not be appreciated by regulators or the public.

Ex-Officio Comments

Williams discussed a National Environmental Protection Agency (EPA) Radiation Superfund Conference that he attended discussing response to terrorist acts and studies of sites around the country. He said he recently had the opportunity to tour Envirocare. He said it is a very remote location and they are required no releases above the mcl at that site. They have a very impressive safety record.

Maybriar said as part of the contract change from BJC to PRS, BJC must be released from the hazardous permit at the facility and PRS must be added to the permit. The state received the permit and it will be added to the administrative record in the library. A public notice will run in the Feb. 19 Paducah Sun letting the public know about the permit modification and there will be a 45-day comment period. He said the state is tentatively scheduling a public hearing on March 28 to address comments. Burnett asked if the only change to the permit

would be the name of the company. Maybriar said the contract name, a few typos and the Solid Waste Management Unit assessment reports would be updated.

Kreher said most of the literature for the KRCEE Ecological Summary project is in one location. A presentation on the first quarterly report will be given in Lexington Feb. 17. He asked if the Board would be interested in a 10- or 15-minute update on the project. The CAB added the update to the April Board meeting agenda. Kreher asked if the Board would like a presentation on the Wildlife Management Area (WMA) discussing public uses and number of people that use the WMA on state owned property and DOE owned property. The CAB added the presentation to the March Board meeting agenda.

Task Forces/Presentations

Waste Disposition/Water Quality Task Force

Lee said the Waste Disposition/Water Quality task force received updates on several ongoing projects and reviewed an End State map. She said the maps Dollins provided satisfy some of what Russell had requested. She asked if the maps were modified, could the maps be passed around to Board members. Blumenfeld said the colors used for the maps were Environmental Management guidelines but the CAB can modify the colors and the maps for their benefit. Lee said a couple of maps were presented at the task force meeting but they were not allowed to distribute. Blumenfeld said they would work closely with the CAB on these maps. Kerley said he understood Blumenfeld as saying the CAB has no restrictions on the maps as long as it is shown to be a CAB work product. Dollins said the map he provided was a starting point. Lee said the task force's next meeting would be at 4:45 p.m. before the Board meeting.

Administrative Issues

Preparation for March Presentation

Dollins suggested postponing the SMP presentation until April because the regulators may ask for an extension on the document review. He suggested discussing the end state maps at the March Board meeting. Kreher said he could prepare the WMA presentation for the March meeting.

Kerley asked if there were major changes to the SMP. He said the document was provided to the CAB in November. Blumenfeld said the document would change with regulator comments. Kerley said this presentation was scheduled in November and DOE should have had the courtesy to notify the Board prior to this meeting that the presentation was not going to happen and another presentation could have been scheduled. Blumenfeld said she learned Feb. 15 that the regulators would request an extension. BJC's John Morgan had pulled together a presentation but the decision was made to postpone the presentation until regulator comments were received.

Smart asked Dollins when the Board could receive a presentation on the C-400 design. It was late in the project when the CAB was informed of the Six-Phase Heating design and some of the members had issues with that design. He requested that the Board get involved earlier in

the design process. Dollins said an update could be provided to the Waste/Water task force on the Remedial Action Workplan and Characterization Plan in April or May after PRS has transitioned.

Bylaws and Operating Procedures

Kerley said a copy of the revised Operating Procedures and Bylaws have been provided in the Board packets for approval. Kay asked if there were any proposed concerns or objections. There were no objections. **The Board adopted the revised Operating Procedures and Bylaws by consensus.**

Budget Review

Smith asked if EHI was waiting for DOE's approval to increase the budget to \$345,000. Kerley said there has to be a EHI contract amendment before the budget will increase. Blumenfeld said a contract amendment is in the works. Burnett asked how much of the budget is EHI's and how much is Board expenditures. Brandstetter said there is a cap on the number of hours that EHI is allowed. Dollins said the Board does have discretion on where the money is spent.

Review of Workplan and March Agenda

Kay said the Site Management Plan will be presented in April and Kreher will provide a presentation on the Wildlife Management Area in March. A presentation will be tentatively scheduled for April on the KRCEE Ecological Summary.

Action Items

Blumenfeld said DOE is working on the execution strategy for the land buy out study and asked that Eadens contact her for discussion of support at the Community Outreach meetings. Those actions can be left pending. Kerley said to close the action regarding correspondence from regulators. Eadens said Sandra Bastin would be sending information on studies at the Paducah site but leave the action pending until the data is received. Dollins said the land use maps are still pending. The action for revised scrap metal chart maps can be closed.

Eadens said three candidates were presented to DOE for membership. Dollins said the membership package is at his office; it is still being worked. Eadens asked that this issue be added to the action item list.

Subcommittee Report

Executive Committee

Smith requested that participation for the next Chairs Meeting and Chairs Meeting homework be added to the next Executive Committee agenda. She said Brandstetter is working on the

Annual Report and she will have her letter to the staff very soon. Kerley said the next Executive Committee meeting has been rescheduled for Thursday, February 23 at noon.

Kerley said there is information on ATSDR activities in Kentucky under miscellaneous issues in the packet. Brandstetter said the ATSDR links have been added to the Web site. Kerley said Lee had requested that the project charts be updated for the January meeting and the CAB has not received the updated charts. Lee said the timeline was supposed to be updated every quarter. Dollins said he would find the charts and update the content.

The meeting adjourned at 7:45 p.m.

Progress at the PADUCAH PROJECT

Update to the Citizens Advisory Board

February 16, 2006





DUF₆ Conversion Project



- Sampling showed no phosgene in final 14 30A cylinders. More than 1,800 other cylinders had been cleared previously.
- Conversion Building foundation concrete pours now completed
- Work continues on the Maintenance and Warehouse building. The siding is currently being installed.



Scrap Metal Removal - Classified Scrap

- 251 tons shipped in January
- Final shipment of classified metal scheduled to leave Paducah next week (nearly 5,000 total tons of classified metal removed since project began)
- Final removal of debris and other material in D-Yard will follow



A magnet crane is used to load material from D-Yard for transport



Northwest Scrap Metal Removal

- Train arrived January 29 at EnergySolutions (formerly Envirocare)
- Train returned to Paducah after 24 boxes containing 628 tons emptied
- Shipments anticipated about every three weeks



The train arrives at EnergySolutions



Scrap Metal Removal

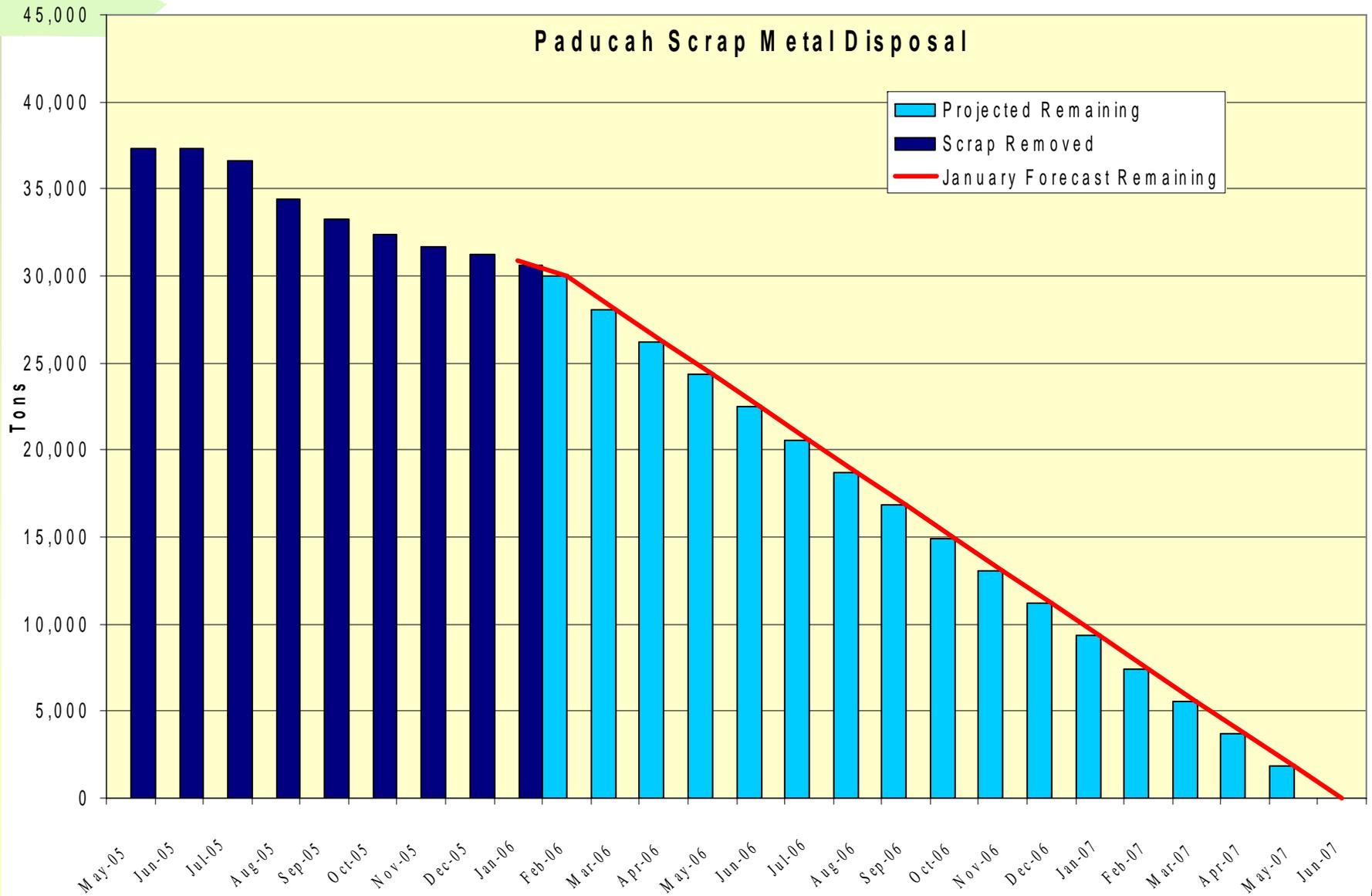
- At EnergySolutions, boxes are removed from the train and emptied in the landfill using a Big Bertha mover and a Mi-Jack lifter



A box from Paducah is emptied at EnergySolutions



Scrap Metal Removal





Inactive Facilities D&D

C-402 Lime House



A sample is collected from the outside of the Lime House last week

- Removal Action Work Plan submitted February 3
- Awaiting regulatory approval/comment
- Work starts within 15 days of approval
- Project completion scheduled for eight months after Removal Action start



DMSAs

- January totals:
 - Characterized 1,103 ft³ (645,000 ft³ over project life)
 - Packaged 9,590 ft³
 - Disposed of 6,052 ft³ (289,000 ft³ over project life)



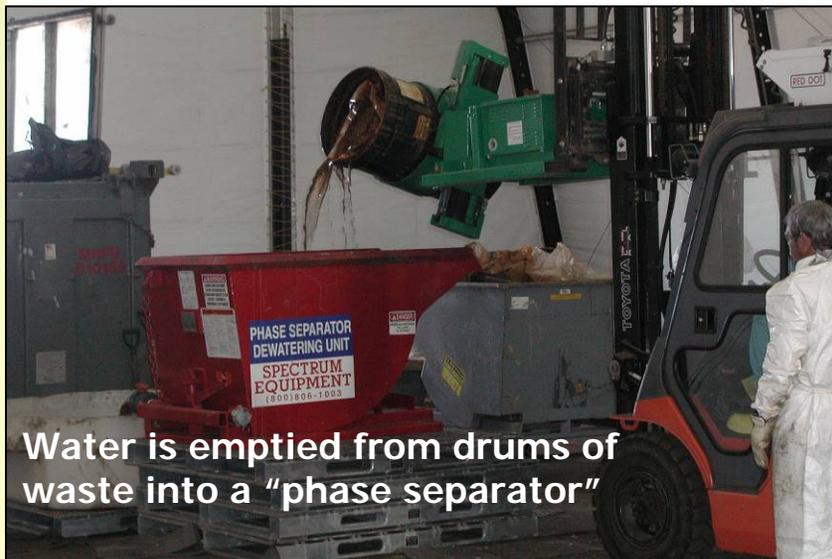
- Completed Final Inventory/Characterization Reports for C-331-21, C-333-39, C-337-26, and C-337-28
- Continuing to characterize, package and dispose of materials



Legacy Waste Disposition

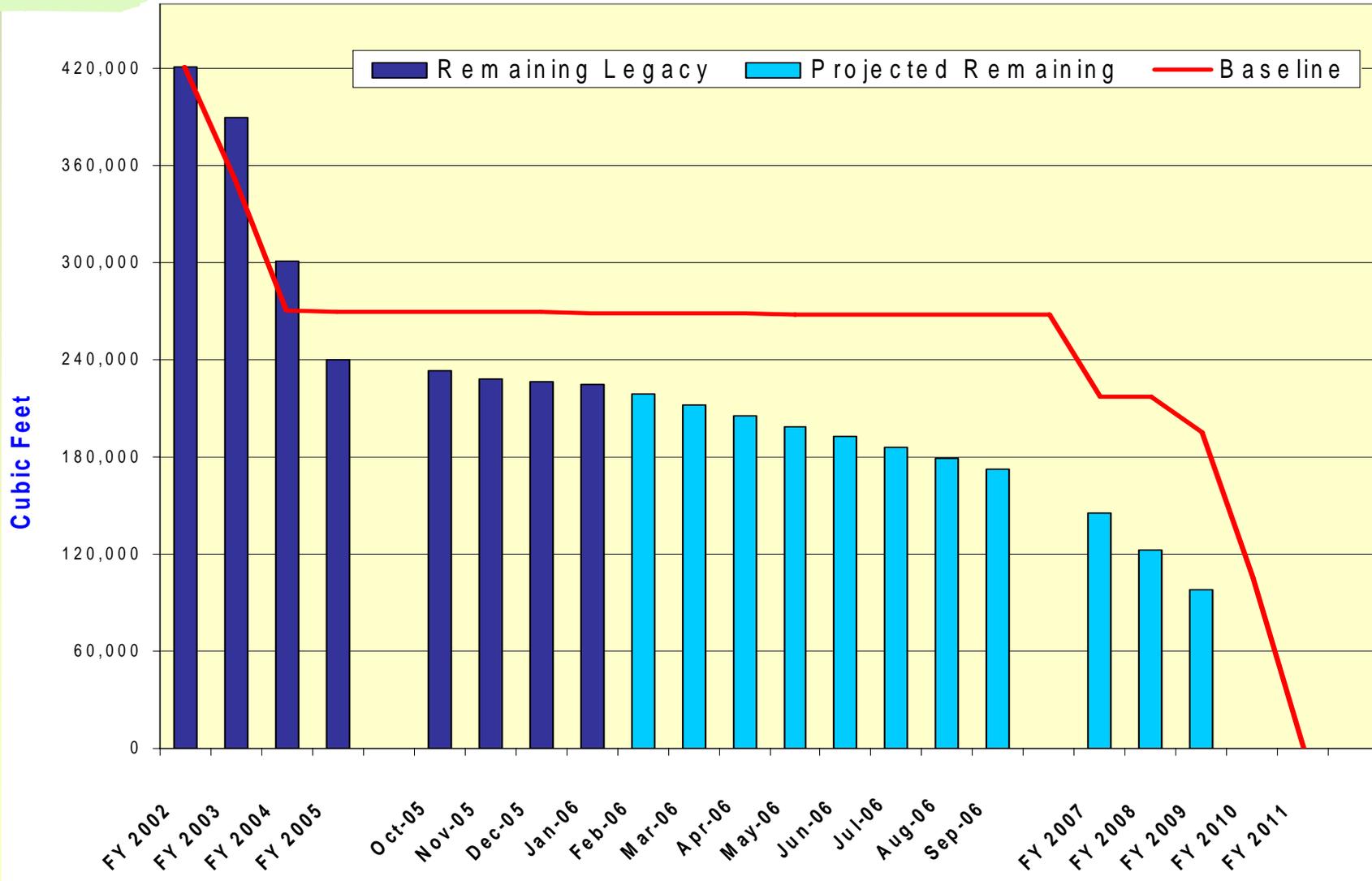


- Completed TSCA sewer sludge shipments to EnergySolutions
- Completed shipping of low-level sewer sludge to EnergySolutions
- Shipped Agreed Order TSCA mixed low-level waste to EnergySolutions
- Continued repackaging activities for waste stored in outside facilities





Legacy Waste Disposition





Environmental Projects

Groundwater Operable Unit

- Revised D1 Site Investigation Report for the C-746-S&T Landfills to incorporate regulator comments and issued the D2 document to the regulators on 2/10/06.

Burial Grounds Operable Unit

- D2 BGOU Work Plan issued to the regulators 12/19/05; regulators are in the process of finalizing their review

Surface Water Operable Unit

- Continuing data validation
- First two steps of storm sewer sampling obtained sufficient data to support the Site Investigation/Risk Assessment Report. DOE preparing technical memorandum documenting that Step 3 storm sewer sampling is not necessary.



Contract Transition

- Paducah Remediation Services (PRS) transition plan submitted and approved by DOE
- PRS team working with BJC to implement transition plan



Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
Project: Solid Waste Contained Landfill

Contact Persons:

Bechtel Jacobs Company LLC: Jim Ehlers/Steve Davis
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:

- The Kentucky Division of Waste Management (KDWM) issued a letter of withdrawal on July 6, 2005 for the S, T and U permit modification due to an administrative error. The public comment period had not expired and the permit was issued prematurely. Currently the landfill facility is operating on the existing permit which expires in 2006. Permit was reissued for public comment on July 11, 2005. Permission to construct Leachate Treatment Facility was withdrawn pending reissuance of the Permit. The comment period closed August 10, 2005. KDWM is addressing comments received.
- As of January 11, 2006 there has been no indication from KDWM of when the permit modification for the C746-U landfill will be approved.

Recent accomplishments/activities:

- Subcontractor for construction of leachate treatment facility (A&K Construction) was issued a suspension of work to minimize costs until KDWM issues permit
- Field portion of the Kentucky Research Consortium for Energy and Environment Holocene Displacement Study completed October 3, 2005
- Ordered prefabricated steel building for C-746-U 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. Kentucky Research Consortium for Energy and Environment Holocene Displacement Study project final report due at the end of January or first week of February.
- Initiate construction of leachate treatment facility within two weeks of reissuance of Permit

**Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
Project: Waste Disposition**

Contact Persons:

Bechtel Jacobs Company LLC: 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 (STP) DWM-30039-42

Issues:

- None

Recent accomplishments/activities:

- Completed shipping TSCA Sewer Sludge to EnergySolutions
- Began shipping Low-Level Sewer Sludge to EnergySolutions
- Continued repackaging activities for waste stored in outside facilities for shipments to EnergySolutions and disposal at C-746-U Landfill, as appropriate
- Shipped Agreed Order TSCA mixed low-level waste to EnergySolutions
- Sent letter to Kentucky documenting completion of characterization of STP Table 8 waste

Activity over next 60 days:

- Complete shipment of UF₄ from Duratek to EnergySolutions
- Complete disposition of 5,055 containers of Agreed Order "no-longer contains" waste at EnergySolutions or the C-746-U Landfill, as appropriate
- Ship mixed low-level waste to Perma Fix facilities and EnergySolutions for treatment/disposal
- Complete disposition of approximately 3,000 containers of Sewer sludge and LLW stored in outside facilities
- Ship tanker of liquid waste to TSCA Incinerator

**Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006**

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: John Russell

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:

- None

Recent accomplishments/activities:

- Continued removal of fluorine cell stands and platforms in Sector 2
- Completed blasting fourth fluorine cell
- Removed cold box (tower) and nitrogen tank from C-603 Nitrogen Generating Facility
- Completed D&D of Sector 1
- Shipped three intermodals of debris for disposal

Activity over next 60 days:

- Continue packaging of loose materials in C-410 Complex
- Ship asbestos waste to EnergySolutions of Utah for disposal
- Ship C-411 (Sector 1) demolition debris to EnergySolutions of Utah for disposal
- Initiate characterization sampling of C-402 Lime House
- Initiate fixative application to exterior stacks
- Package demolition debris for shipment to EnergySolutions of Utah
- Continue paint removal from breached fluorine cells

Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
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: John Russell

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, 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:

- Increased rigor in characterizing painted items for PCB content has impacted characterization, packaging, and disposal activities. Effort is under way to resolve different requirements and allowances between Kentucky and EPA regulations for solid waste disposal of painted items.

Recent accomplishments/activities:

- Submitted Final Inventory/Characterization Reports to DOE for DMSAs C-331-21, C-333-39, C-337-26, and C-337-28
- In January, 1,103 ft³ characterized (645,000 ft³ over project life), 9,590 ft³ packaged for disposal, 6,052 ft³ disposed (289,000 ft³ over project life)
- Stored material continues to be characterized, packaged, and disposed

Activity over next 60 days:

- Continue disposition of the remaining DMSA OS-15 material
- Continue the sizing, packaging, and disposition of OS-4 and OS-14 rail cars
- Continue characterization of "Priority B" DMSAs under the Agreed Order
- Pursue Kentucky approval for approximately 20 DMSA RCRA Closures

Project Status Update for DOE Paducah Citizens Advisory Board

February 9, 2006

Project: Groundwater Operable Unit

Contact Persons:

Bechtel Jacobs Company LLC: Bryan Clayton/Lance Fleming

Commonwealth of Kentucky: Jon Maybriar/Todd Mullins

U.S. Environmental Protection Agency: David Williams

Citizens Advisory Board: Jim Smart

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 Remedial Action for the Groundwater Operable Unit for the Volatile Organic Compound Contamination at the C-400 Cleaning Building (DOE/OR/07-2150&D2/R2); Remedial Design Work Plan (DOE/OR/07-2214&D2); Remedial Design Support Investigation Characterization Plan (DOE/OR/07-2211&D2)
- Site Investigation Report for the Southwest Groundwater Plume (DOE/OR/07-2180&D1)
- Site Investigation Report for the C-746-S&T Landfills (DOE/OR/07-2212&D1)

Issues: Discussions with the State of Kentucky and EPA are continuing concerning the use of degradation factors utilized in groundwater modeling to support risk assessment development.

Recent accomplishments:

- Evaluated proposals from contractors responding to the Request for Proposal for a remediation contractor to design, build and operate the Electrical Resistance Heating at the C-400 Building and provided recommendation for award to the BJC Oak Ridge Procurement
- Revised D1 Site Investigation Report for the C-746-S&T Landfills to incorporate regulator comments received. The D2 document is to be issued on 2/10/06

Activity over next 60 days:

- Award Subcontract for the implementation of the C-400 Interim Remedial Action
- Receive approval of D2 Remedial Design Work Plan for the Interim Remedial Action of C-400
- Issue D2 C-746-S&T Landfill Site Investigation Report
- Issue D1 Land Use Control Implementation Plan for the C-400 Remedial Action
- Issue D2 Site Investigation for the Southwest Groundwater Plume

FFA Milestones:

- Submit D2 Southwest Plume Site Investigation Report by 2/4/06 and D1 Remedial Action Plan by 3/6/06. (Milestone being modified pending resolution of the degradation factor use in groundwater models.)

**Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
Project: Surface Water Operable Unit (On-Site)**

Contact Persons:

Bechtel Jacobs Company LLC: Dave Guyan/Lance Fleming
Commonwealth of Kentucky: Jon Maybriar/Brian Baker
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board: Jim Smart

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), DOE/OR/07-2137&D2/R2.

Issues: None

Recent accomplishments:

- Prepare technical memorandum to not implement Step 3 storm sewer sampling. (First two steps obtained required data.)
- Continue data validation

Activity over next 60 days:

- Submit technical memorandum to Regulatory agencies
- Prepare draft Site Investigation/Baseline Risk Assessment Report

FFA Milestones:

- Issue Site Investigation/Risk Assessment Report by August 16, 2006
- Issue Removal Notification by October 12, 2006

**Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
Project: Scrap Metal Removal Project**

Contact Persons:

Bechtel Jacobs Company LLC: Frank Overby/Chris Marshall/Craig Jones
Commonwealth of Kentucky: Jon Maybriar
U.S. Environmental Protection Agency: David Williams
Citizens Advisory Board: Jim Smart/John Russell

Purpose: Environmental Cleanup/Waste Disposition

Description: About 36,000 tons of scrap metal exists at the PGDP, excluding nickel ingots. This project involves the removal of 26,700 tons of general scrap metal, 2,000 tons of aluminum ingots, and approximately 7,000 tons of classified scrap. The project does not include the recycling or disposal of 9,700 tons of nickel. Note the classified scrap total has been revised downward based on field experience.

Key documents:

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

Issues: None

Recent accomplishments:

- 251 tons of scrap metal were shipped by truck in January 2006 from C-746-D yard to NTS. Since recertification of the waste shipping program by NTS in July 2005, BJC has shipped 2,979 tons of scrap to NTS
- Loaded 543 tons of scrap in Northwest Scrap Metal yards during January 2006

Activity over next 60 days:

- Continue disposition operations by inspecting, sorting, size-reducing and packaging scrap metal
- Continue shipment of scrap metal to NTS and EnergySolutions

**Project Status Update for DOE Paducah Citizens Advisory Board
February 9, 2006
Project: Burial Grounds Operable Unit**

Contact Persons:

Bechtel Jacobs Company LLC: John Young/Lance Fleming
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 and the RI/FS Work Plan for the investigation of the Burial Ground Operable Unit (BGOU) at PGDP have been developed. The documents utilize a compilation of sampling information collected on and around the PGDP over the course of the last ten years. The BGOU includes Solid Waste Management Units (SWMUs) 2, 3, 4, 5, 6, 7, 30, and 145.

Key documents:

- Scoping Document for the Burial Grounds Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky
- Work Plan for the Burial Grounds Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/OR/07-2179

Issues: None

Recent accomplishments:

- BGOU D2 RI/FS Work Plan was completed and distributed to the Commonwealth of Kentucky and the EPA on December 19, 2005
- The regulators have requested a 30 day extension on the review period

Activity over next 60 days:

- Receive regulator approval of the RI/FS Work Plan by February 23, 2006

**Project Status Update for Paducah DOE Citizens Advisory Board
November 10, 2005**

Project: Depleted Uranium Hexafluoride (DUF₆) Project Surveillance & Maintenance

Contact Persons:

DOE Site Office: John Sheppard
Uranium Disposition Services: Dick Veazey
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.

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:

- Cylinder yards transitioned from BJC to UDS on June 27, 2005
- UDS began S&M operations on June 30, 2005
- An agreement with the Bonneville Power Administration (BPA) has been approved to transfer 672 cylinders of DUF₆ to BPA to supply power reactor fuel; 157 cylinders have been transferred since June 30, 2005
- Cylinder yards on the south side of the plant have been reconfigured to a Property Protection Area (PPA). Work in the PPA does not require security clearance; UDS controls access according to a DOE approved security plan.
- An agreement with USEC has been approved to “clean up” 743 cylinders of off-spec “normal” UF₆; 71 cylinders were transferred in September

Activity over next 60 days for surveillance/maintenance:

- Continue transferring cylinders to USEC as per the two previously mentioned agreements

**Project Status Update for Paducah DOE Citizens Advisory Board
February 13, 2006
Project: Depleted Uranium Hexafluoride (DUF₆) Conversion Facility**

Contact Persons:

DOE Site Office: John Sheppard
Uranium Disposition Services: Guy Griswold
Commonwealth of Kentucky:
U.S. Environmental Protection Agency:
Citizens Advisory Board:

Purpose: Design, build, and operate the DOE DUF₆ Conversion Facility.

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. 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.

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 ≈ \$91,000,000. The major facilities on the DUF₆ project include the Conversion Building, Administration Building, Warehouse and Maintenance Building, KOH Regeneration Building, and the HF Neutralization 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 2007.

Key Documents for the Conversion Project:

- 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
- Paducah Conversion Facility Preliminary Documented Safety Analysis, DUF6-C-G-PSA-001, Rev. F

Issues: Critical Decision 3, authorization for remaining construction – received September 30, 2005

Recent accomplishments/activities:

- Four Conversion Building pre-cast columns cast.
- Ground Modifications for Conversion Building - Sub-contractor demobilized. Final Report submitted.
- Conversion Building foundation - 4,400 cy of concrete placed. Foundation concrete and placing embedments complete.
- Warehouse Building – siding and roofing being installed.
- Offsite rail spur Bayou Creek Bridge cofferdam piling complete, bridge steel fabricated.
- Place gravel around Conversion Building – 100% complete.
- Administration Building – underground utilities installed, select backfill placed, reinforcing steel on site, foundation forms being placed.

Construction activity scheduled over next 60 days:

- Continue construction of offsite rail spur with rail clearing and bridge foundation work.
- Remove forms from Conversion Building foundation, install grounding and connect utilities.
- Award subcontract and begin constructing balance of plant foundations S-39

- Fabricate and begin erecting Conversion Building panels and columns
- USEC to begin connecting PGDP utilities
- Begin constructing Power Feed to Facility
- Receive selected equipment.

Procurement activity planned next 60 days:

- Award HVAC package - S-42
- Award Piping/Mechanical Equipment package - S-40
- Award Electrical Distribution and Instrumentation - S-43
- Award Power Feed to Facility – S-44
- Award Pre-Engineered Buildings Package - S-31
- Process and Award Conversion Building Roof – S-23
- Bid Structural Steel Installation – S-33
- Bid Architectural Finishes – S-32
- Bid Fire Protection Systems – S-41
- Bid Major Equipment RFPs