



PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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

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

Board members present: Allen Burnett, Judy Clayton, Shirley Lanier, Bobby Lee, Janet Miller, Elton Priddy and John Russell

Board members absent: John Anderson, Jim Smart, and James Tidwell

Liaison members and related regulatory agency employees: Brian Begley, Bill Clark, Jon Maybriar, Edward Winner, Kentucky Division of Waste Management; Tim Kreher, Kentucky Department of Fish and Wildlife Resources; David Williams, Environmental Protection Agency; Steve Hampson, John Volpe, Kentucky Radiation Health Branch

Deputy Designated Federal Official: Reinhard Knerr

Portsmouth/Paducah Chief Operating Officer: Rachel Blumenfeld

DOE Interim Federal Coordinator: Mitch Hicks

DOE-related employees: Rich Bonczek, Tracey Brindley, Yvette Cantrell, Pete Coutts, Kim Crenshaw, Paul Corpstein, Paul Gagnon, Bruce Gardner, Michael Gerle, Guy Griswald, Steve Kay, Matt LaBarge, Bruce Phillips, Steve Polston, Eric Roberts, Rob Seifert and Barry Tilden

Eight members of the public attended the meeting.

Agenda

Kay asked for modifications to the agenda. **The Board adopted the agenda as submitted by consensus.**

Minutes

Kay asked for modifications to the draft October minutes. **The Board approved the minutes as submitted by consensus.**

Announcements

Burnett said that Rhonda Smith had accepted a new position in Milwaukee, Wisconsin and presented a letter of resignation as chair and member of the Board at the retreat. Burnett assumed the Chair position and asked that nominations for Chair-Elect be sent to him. An election will be held at the January meeting. Knerr said Smith brought experience and values to the Citizens Advisory Board (CAB). He presented a plaque in appreciation for her time and service to the Board.

Burnett said the CAB's scope of responsibility has been added to the public packets and displayed on the flip chart. He asked that public comments stay within that scope.

Deputy Designated Federal Official *Attachment 1*

Questions/Comments	Answers
Maybriar: Was the C-612-A Clamshell removed down to the foundation?	Knerr: It was a concrete pad and the frame was not bolted down to the facility so it was quick to take down.
Burnett: Were the pipes that carried the hydrogen fluoride inside the C-410 Building contained within the facility or were they connected to anything on the outside of the building?	Knerr: All the pipes were within the facility.
Burnett: Has all of the surface scrap metal been placed in gondola cars?	Knerr: There are not enough gondola cars on site. Some of the final bits are staged or have been placed in remedial containers to be quickly loaded onto the gondola cars.
Maybriar: Is the delay of the bridge construction going to affect the completion report for the scrap metal project?	Knerr: No.

Lee: What is the resolution on the geophysical survey for Solid Waste Management Unit (SWMU) 145?	Brindley: Electromagnetic 61 resolution (EM61) technology is used. It shows metal or material changes in composition of the subsurface at a depth. It helps determine if there are burial cells as the area is walked over.
Lee: Does the technology show shape?	Brindley: No, it just shows resolution.

Federal Coordinator

Hicks said he is looking forward to working with the CAB. The retreat was beneficial.

Liaison Comments

Kreher said he was notified of potential hot spots in soil piles located off McCaw Road. Knerr said Paducah Remediation Services (PRS) is investigating the piles and samples have been taken. Maybriar said the U.S. Department of Energy (DOE) notified Kentucky Division of Waste Management (KDWM) about the soil that was discovered along Little Bayou Creek. He said they have split samples with DOE and instructed them to modify a SWMU Assessment Report to include the new area of soil that has been found. Miller asked how the area was discovered. Brindley said it was found during a routine survey. In taking an alternate route to Little Bayou Creek, an area was noticed that did not look like natural piles of soils. Based on the area around the pile, the soil is expected to be at least 20 years old. She said the validated data should be available to the regulators in about three weeks. Miller asked the size of the pile. Brindley said it was approximately 2500 cubic yards and it appears to be where the creek was dredged. It is outside the fence, which is accessible to hunters. Kreher said the hunters must check in; it is not free entry. He said the hunters are warned to stay out of the area and the area is marked with postings and tape.

Maybriar said Kentucky invoked an informal dispute on the Southwest Plume Site Investigation (SI) document when EPA's comments were received. KDWM is working with DOE to establish a path forward and resolve the trichloroethylene (TCE) degradation factor issue. He said Kentucky has approved the Burial Grounds Work Plan with a conditional concurrence. He said they are working on the comments for the C-400 Land Use Control Implementation Plan (LUCIP).

Williams said the U.S. Environmental Protection Agency (EPA) issued a letter of nonconcurrence on the Southwest Plume SI document to invoke informal dispute primarily on the degradation factor issue. EPA approved the Burial Grounds Work Plan because DOE included polychlorinated biphenyl (PCB) analysis on all samples. EPA is reviewing the C-400 LUCIP.

Lee asked for a description of the Dissolved Phase Plume. Williams said there are two large plumes at the site, the Northeast and the Northwest Plume and then the dissolved phase of the Southwest Plume. DOE is looking at all of the dissolved phase plumes as they move away from the facility. EPA's and Kentucky's comments on the Site Management Plan (SMP) included accelerating the research on the dissolved phase plumes.

Volpe said the Board and two members of the public were provided copies of the reports requested at the October Board meeting. He said a question of surveying public properties was addressed with the Radiation Health Branch and they are working with the Kentucky Resource Council on that issue. Epidemiological data is being discussed with the Department of Public Health. He brought health assessments to the branch's attention as well.

Public Comment

Jurka discussed the hair analysis results from the Agency for Toxic Substances and Disease Registry reports of Paducah Gaseous Diffusion Plant (PGDP) employees that do not live within the two-mile radius of the plant. She discussed the results of the community members indicating a higher body burden of metals than the employees.

Jurka said she appreciated the Board providing a list of contacts for various departments but other contacts are needed from Kentucky, EPA and DOE for local contacts other than liaison members of the Board. Blumenfeld asked if Jurka is asking for a list of contacts for different agencies. Jurka said she would like a list from DOE, EPA and Kentucky. Maybriar said he routinely works with the group of people that are at the table. He asked what contacts she is looking for. Jurka asked for the contacts that are directly responsible for the Paducah site.

Vander Boegh said that at the last meeting there were comments about the C-613 Basin and discussion about the suspended solids levels. The overflowing water was at 100 milligrams per liter (mpl) and inside the basin was at 200 mpls. He asked if that was the same reading that was taken at Outfall 001. He asked what the acreage was that flowed into the basin. Brindley said approximately 60 acres.

English asked when the Depleted Uranium Hexafluoride (DUF₆) facility was up and running would this site be involved in the dry cast storage manufacturing. Griswald said Uranium Disposition Services would not be manufacturing dry cast containers. Dry material would be put in cylinders, which had contained the UF₆.

Task Forces/Presentations

Brindley provided a presentation on the C-746-U Landfill groundwater assessment (*Attachment 2*). Questions and answers (paraphrased) appear below.

Questions/Comments	Answers
<p>Burnett: The monitoring wells are sampled quarterly. Is that for compliance?</p>	<p>Brindley: The permit requires quarterly sampling. Typically, the samples are taken the first month of every quarter. The samples that were required in the letter were conducted.</p>

<p>Lee: What are the consequences on the exceedences?</p>	<p>Brindley: The state must be notified within 48 hours of an exceedence. The resampling must be conducted along with an assessment plan. After state approval of the assessment plan, PRS has 60 days to implement the plan. A corrective action plan is prepared or enhanced monitoring may be in order when the state determines the appropriate action.</p>
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Waste Disposition/Water Quality Subcommittee

Lee said the subcommittee received DOE’s response to the state on Vander Boegh’s allegations of free liquids entering the C-746-U Landfill. She is reviewing the executive summary for the D1 Surface Water Operable Unit Site Investigation. The subcommittee may want to comment on the document.

Smart drafted a letter to the Division of Water (DOW) on the Kentucky Pollutant Discharge Elimination System (KPDES) permit. An extension was not given for public comment on the permit and the subcommittee does not feel like the public was given time to process the changes. Burnett reviewed the letter and asked the Board for approval. Lee said the subcommittee did not approve or disapprove of the letter but agreed to present it to the Board. **The Board adopted the letter as modified by consensus.**

Russell said that last month he asked the question whether any water entered the C-613 Basin other than runoff water from the scrap metal project. He was told there were not. After that meeting, he received comments on the KPDES permit from the Kentucky Resource Council (KRC) describing seven effluent streams going into the basin. He asked if there were seven effluent streams and if they are continuous or sporadic into that basin. Knerr said he believed the KRC was referring to streams that are processed through the Pump and Treat facility, which does not feed into the sedimentation basin. Blumenfeld said they would review those comments and have an answer at the January meeting.

Action Items

Lee said the draft recommendation to DOE on the landfill allegations is pending based on the review of the response from DOE to KDWM’s letter.

Knerr said he wanted to discuss DOE copying the CAB on all comments from EPA and Kentucky with the regulators and suggested adding the issue to the Executive Committee agenda.

Lee said Brindley has been preparing requests for the geographic information system database at each subcommittee meeting so that action can be closed.

Burnett said the only thing that has been located on the “off-site dump maps” requested by Vander Boegh is construction piles and Vander Boegh has indicated that is not what he is looking for. It has not been identified what to look for. Vander Boegh said he would not go

forward on producing the maps until additional information was received from the public. He said he has been given many locations for potential “dump sites” but he does not have the time to verify if they are legitimate. Maybriar asked that Vander Boegh provide his contact information to any individuals that have a concern.

Maybriar said the Agreement in Principle data would be evaluated further and if possible, presented to the CAB in January.

DOE provided a presentation on the plans for the C-746-U Landfill groundwater assessment earlier in the meeting. The action can be closed.

Volpe said Jurka was provided data on airborne plutonium. The action can be closed.

Knerr said Kentucky provided draft language for the signs along the Little Bayou Creek to help the Paducah site meet environmental indicators. Blumenfeld said a recommendation has been sent to headquarters for review. Lee asked that the action remain open until the signs are in place.

Miller said she has not received validated data of the sediment in the basin. The action is pending.

Kay said the letter to DOW on the KPDES permit was approved earlier in the meeting. The action can be closed.

Volpe said maps indicating the location of air monitors across the site was given to the Board prior to the meeting. Staff will mail the locations to Linda Long.

Russell asked whether new signs or fences had been placed at Section 5 of the North-South Diversion Ditch. Knerr said there was damage from wildfire last year and some new signs were erected to replace existing signs. That area had been recently mowed so the signs were more visible.

Lee said a copy of the response to KDWM regarding the allegations of free liquids entering the landfill was received. Knerr asked that the subcommittee review and discuss the response at the January meeting and if they feel a presentation is necessary, it can be put on the agenda.

Knerr said DOE is still investigating why the concentrations of dissolved uranium did not change from before the rainstorm versus during the rainstorm after the sedimentation basin overflowed. PRS is doing additional monitoring to isolate potential sources.

Public Comments

Jurka asked given the close proximity of the Northeast Plume to the C-746-U Landfill, what geologic anomaly prohibits technetium 99 (Tc⁹⁹) from migrating through the Regional

Ground Aquifer or why do those monitoring wells identify Tc⁹⁹ while the plume data does not. Brindley said the question could be answered at the January meeting.

Administrative Issues

Budget Review

Burnett said third party review and carryover money has been included in the budget. Blumenfeld said the budget would be in continuing resolution at least through February.

Work Plan Review

Burnett said the new work plan includes the 2007 milestones and deliverables that are divided up into subcommittee and individual assignments. The most important projects would be tracked. Lee said the Waste/Water subcommittee assigned projects and agreed to keep the same meeting time. She said the Community Outreach and the Long Range Strategy/Stewardship subcommittee projects should be added to the work plan. She said it was suggested that those two subcommittees could meet every other month and the Waste/Water subcommittee would continue to meet every month. Burnett said it might be more convenient to meet another time but that time seems to work for the meantime. Knerr asked if the CAB Work Plan had ever been approved by DOE Headquarters after the Chair and DDFO have signed off on it. Kay said that has not happened in the past. It is a rolling document that is modified monthly. Cantrell said there is a requirement for the work plan to be a signed document in order for DOE to establish priorities. Blumenfeld said it could be clarified with Doug Frost.

January Agenda

Blumenfeld said the Land Acquisition Study initial review at the Portsmouth/Paducah Project Office has been completed and is not sure how long it would take Kentucky Resource Consortium for Energy and the Environment to turn around the comments.

Knerr said DOE would provide changes between the 2005 SMP and the 2006 SMP.

Blumenfeld suggested the C-400 design support investigation for the January agenda. Burnett said it should be presented in the subcommittee. It could then be decided if it should be presented to the full Board.

Executive Committee

Burnett said the National Chairs meeting would be held in Las Vegas March 28-30. The budget will allow for two members to participate.

Burnett said two membership applications have been received. The Community Outreach subcommittee recommended sending Gary Long's application to DOE for approval and appointment. **The Board approved the recommendation by consensus.**

The Executive Committee will meet Wednesday, November 29 at noon.

Retreat

Burnett said the draft retreat minutes are in the packet for review. The Bylaws and Operating Procedures were modified to include the changes from the retreat. Burnett reviewed the changes and said the documents would be voted on at the January meeting. The Bylaw changes include mandatory participation in subcommittees. The changes in the Operating Procedures include replacing ex-officio to liaison. Task forces will be called subcommittees instead of task forces. He said scheduling the retreat in August to coincide with the fiscal year was also discussed. A summary of the retreat evaluations is in the packet. Burnett said there has to be improved communication between board meetings.

Other

Russell asked if the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) cell is being considered. He was told at previous meeting that the CERCLA cell was not being considered and now there are milestones for the project beginning in 2008. Blumenfeld said at one point in time the CERCLA cell was actively considered, then it was taken off as an option, and at the time of the request for proposal DOE did ask the new remediation contractor to do work on helping DOE to decide if there would be a CERCLA cell at the site.

Russell said the milestone list mentions a variance request for expansion of the landfill capacity. Blumenfeld said that is relating to the leachate capacity. There are provisions under the regulations about the tanks and the leachate that is generated at the landfill. A request for a variance can be requested based on real time treatment capacity. PRS is looking into pursuing that.

The meeting adjourned at 8:45 p.m.