



November 18, 2010

**Chair**  
Judy Clayton

**Vice-Chair**  
Ralph Young

**Board Members**

John Anderson  
Robert Coleman  
David M. Franklin  
Jonathan Hines  
Mike Kemp  
Shirley Lanier  
Maggie Morgan  
Kevin Murphy  
Dianne O'Brien  
Ben Peterson  
Elton Priddy  
Ronnie Rathman  
Alex Roman  
Mark Sullivan  
Don Swearingen  
May Louise Zumwalt

**Board Liaisons**

Reinhard Knerr  
*DOE DDFO*

Buz Smith  
*DOE Federal Coordinator*

Ed Winner  
*Division of Waste  
Management*

Turpin Ballard  
*Environmental Protection  
Agency*

Mike Hardin  
*Fish and Wildlife Resources*

Stephanie Brock  
*Radiation Health Branch*

**Support Services**

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## Agenda for the November Board Meeting

**6:00**

Call to order, introductions  
Review of agenda

**DDFO's Comments**

-- 20 minutes

**Federal Coordinator Comments**

-- 5 minutes

**Liaison Comments**

-- 5 minutes

**Administrative Issues**

**Presentations**

-- 15 minutes

**Subcommittee Chair Comments**

-- 10 minutes

**Public Comments**

-- 15 minutes

**Final Comments**

-- 5 minutes

**Adjourn**



# PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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## **Paducah Gaseous Diffusion Plant Citizens Advisory Board Meeting Minutes November 17, 2010**

*The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky on November 18th at 6:00 p.m.*

**Board members present:** Judy Clayton, Chair; Ralph Young, Vice-Chair; John Anderson; Robert Coleman; David Franklin; Mike Kemp; Shirley Lanier; Kevin L. Murphy; Ben Peterson; Dianne O'Brien; Elton Priddy; Ronnie Rathman; May Louise Zumwalt

**Student Participant present:** Colby Davis

**Board members absent:** Jonathan Hines; Maggie Morgan; Alex Roman; Mark Sullivan

**Board Liaisons and related regulatory agency employees:** Ed Winner, Kentucky Department of Waste Management (KDWM); Gaye Brewer, KDWM; Nathan Garner, KDWM; Stephanie Brock, Radiation Health Branch (RHB); Turpin Ballard, Environmental Protection Agency (EPA); Connie Jones, EPA; Tim Kreher, Kentucky Department of Fish and Wildlife (KDFW);

**DOE Manager Portsmouth Paducah Project:** William Murphie

**DOE Deputy Designated Federal Official:** Reinhard Knerr

**DOE Federal Coordinator:** Buz Smith

**Facilitator:** Judy Clayton, Citizens Advisory Board Chair

**U.S. Department of Energy (DOE) related employees:** Barbara Mazurowski, LATA Kentucky (LATAKy); Sarah Bynam Roman, LATAKy; Eddie Spraggs, LATAKy; Eric Roberts, EHI Consultants (EHI); Suzanne Clinton, EHI; Greg Felts, EHI; Yvette Cantrell, Remediation Services Inc. (RSI); Rich Bonczek, DOE; Larry Newman, DOE; Bill French, LATAKy; Leon Owens, Swift & Staley; Mark Cauley, LATAKy; Bob Kingsbury, LATA New Mexico; Joe Walker, LATAKy

**Public:** Olivia Inmen, West Kentucky Community & Technical College (WKTC); Mallary Paris, WKCTC; Jordan Cavitt, WKCTC; Nora Nance, WKCTC; Tori Keeling, WKCTC

**Introductions**

**CAB Chair, Judy Clayton** called the meeting to order at 6:05 p.m. **Clayton** then reviewed the agenda, the scope of the CAB, stated fifteen minutes are allotted for public comment and that members of the public must sign in to speak. **Clayton** welcomed Colby Davis, the first CAB student participant and asked CAB members help Davis as he works to get up-to-speed on issues facing the CAB. **Clayton** then called for round-table introductions.

**Deputy Designated Federal Official Comments**

**Knerr** presented project updates to the Board. All presentations are available on the CAB Website at [www.pgpdcab.org](http://www.pgpdcab.org).

| Question/Comment   | Answer   |
|--|--|
| <p><b>Lanier:</b> Does this mean that there just wasn't the volume of TCE in the groundwater that you expected?</p>  | <p><b>Knerr:</b> That is exactly what we are trying to determine. The treatment zones did not yield the amount of TCE that we anticipated. One of the techniques that we are using to gauge the volume of TCE is the "membrane interphase probe". That helps us to monitor the resistivity of the soil and it helps us to determine whether there is TCE material present. We use those measurements to correlate the data that we used to estimate how much TCE we believed was there. We are now working to get additional sampling data to help us better interpret that information and help us understand why we weren't as successful as we might have been with our original estimates.</p> |
| <p><b>Clayton:</b> As I recall, DOE, EPA, and many technical people were involved in the decision to remediate the TCE this way. How can there be such a disparity between the estimate and what was actually found? Or is it there and we just haven't found and recovered it yet? I understand we're looking for a needle in a haystack. I would encourage looking at the original data and starting from scratch again.</p> | <p><b>Murphie:</b> Our plan is to review all of the data.</p> <p><b>Knerr:</b> We've also developed a slide that showed all the original borings that were done (and there were many). On top of that we plotted the "lift data" to further refine what the treatment areas yielded. As we go through our sampling, we'll be able to understand more specifically why we experienced the discrepancy. In addition, we brought in</p>   |

|  |  |
|--|--|
|  | an independent review team in several weeks ago. |
|--|--|

**DOE Federal Coordinator Comments**

**Smith** welcomed the WKCTC students from Bobby Lee’s class and invited them back to participate in future meetings.

**Liaison Comments**

**Ballard** reported that, as Knerr mentioned in the DDFO, they are in dispute over several projects. EPA is working to determine whether good cause exists for a clean-up schedule extension. **Ballard** continued saying he thinks sometimes getting into the dispute process is the best way to make progress rather than allowing a situation to languish and go unaddressed.

**Kreher** reported he is happy that meetings are already beginning to be held on next year’s Eco-Fair event that will take place in the spring of 2011.

**Administrative Issues**

None

**Presentations**

None

**Subcommittee Chair Comments**

**Clayton** reported for the Executive Committee that she, Ralph Young, Robert Coleman and Mark Sullivan attended the Fall Chairs meeting in September in Santa Fe, New Mexico. The four were given a tour of the Los Alamos site as well as attended two days of meetings; one of which was also attended by Secretary Triay. **Clayton** continued saying Dr. Triay is very passionate about the clean-up work that is underway across the country. **Clayton** also attended an EPA dialogue meeting in Washington, DC. The purpose of the meeting was to share around the table what is and what isn’t working at the clean-up sites. **Clayton** said, in her opinion, the Department of Energy really has a “hand up” on engaging the public in the process and that she really appreciates DOE’s efforts in this regard. **Clayton** further reported members of the CAB Executive Committee met with EPA leaders at the state and national level just before the CAB meeting and had an opportunity to share their thoughts about the local clean-up process. **Clayton** stated she is happy many of these officials stayed for the meeting.

**Young** reported members of the Ad Hoc Subcommittee met in Mayfield approximately two weeks ago and that a draft recommendation (on the SW Plume) is in the works that will be shared with the rest of the board at an upcoming meeting.

**Clayton** reported for the Future Use/Historic Preservation Subcommittee that she had attended a cold war veteran’s dinner sponsored by USEC and DOE and made several good contacts that will be excellent resources for oral histories. Additionally, at the November Subcommittee meeting, members received an update from WKCTC staff members Beverly Quimby and Andrew Evitts who are working to develop an historic video. Expanded CAB goals in regard to historic preservation were discussed. **Clayton** stated she much prefers such work be done by local people at the local college.

**Young** reported KRCEE had held two public meetings—two informational meetings and two meetings gathering public input on the possible future uses of the site. Fifty-to seventy-five people attended each meeting. **Young** stated he isn't sure when the final report will come out, but likely in the January-February, 2011 timeframe.

In the absence of Chair, Mark Sullivan and Vice-Chair, Maggie Morgan, **May Louise Zumwalt** reported that the Waste Disposition Subcommittee discussed in October topics generated by recent tours of PGDP potential CERCLA cell sites and the Fernald, Ohio CERCLA cell. Another trip to Fernald, Ohio CERCLA cell is in the works for CAB Members to be taken in Spring, 2011.

**Robert Coleman** reported the Community Involvement Subcommittee discussed Eco-Fair, School Outreach, Government Access TV as well as possible venues for the Speaker's Bureau presentation. In addition, **Ralph Young** reported he has obtained an invitation from the Leadership Paducah at the alumni lunch as an opportunity to give the Speaker's Bureau Presentation for the first time.

**Mike Kemp** reported the Funding and Scheduling Subcommittee had received a presentation from Myrna Redfield and Todd Struttman of LATA-KY at the November subcommittee meeting. The two explained the current situation regarding levelized funding and its anticipated impacts on the near-term and long-term baselines for the cleanup program. Without being able to give specifics, LATA informed the committee that numerous meetings had taken place between DOE, its contractors, EPA and KY.

#### **Public Comments**

No attendee signed in to make public comments.

There being no further business, the meeting adjourned at 7:15 p.m.

Solving Cleanup Challenges Through Risk Reduction

# Remediation Project Update



## Presentation for Paducah CAB

November 18, 2010

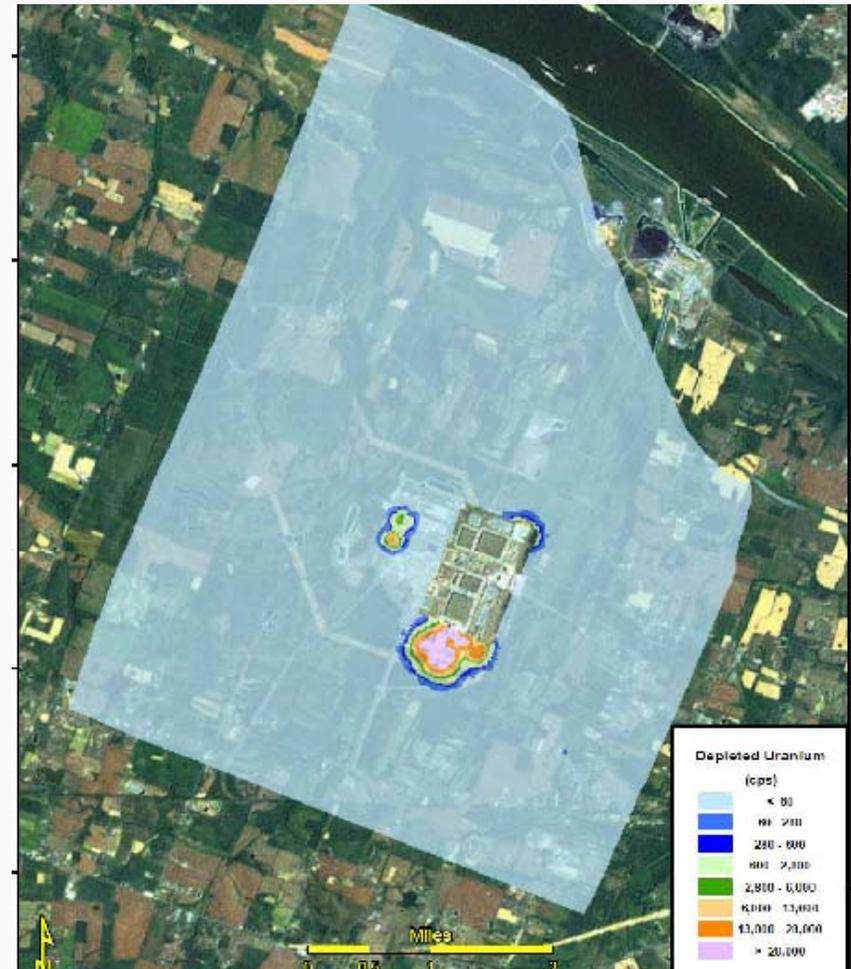


**EM** Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

# Soils Operable Unit

## Sitewide Flyover and Radiological Survey



- 2009 Flyover results: No anomalies outside DUF<sub>6</sub> cylinder yards

# C-340 Metals Reduction Plant



- All ARRA major milestones met on or ahead of schedule
  - Demolition of support facilities
  - Demolition of conveyor system
  - Systems removal
- Asbestos abatement completed by 9/27/10 milestone



# *C-340 Complex Accomplishments*

**Complex (~65,000 ft<sup>2</sup>) operated 1953-62, 1968-73 to convert DUF<sub>6</sub> to U metal or UF<sub>4</sub> – second of the two large inactive facilities planned for D&D. Demolition accelerated under ARRA.**

- Completed loose material removal
- Installed temporary power to conduct D&D work
- Completed elevator refurbishment
- Completed accessible asbestos abatement
- Removed magnesium fluoride system from C-340-C Building
- EE/CA, AM, and RAWP for structural demolition approved
- Demolished C-340-E Emergency Power Building, C-340-D Magnesium Storage Building, conveyer connecting C-340-D to Main Building
- Completed stabilization, removal of fifth-floor UF<sub>6</sub> test cabinets

C-340



# C-410 Feed Plant Work



Fluorine cell transferred to ToxCo Inc for recycling

- Demolition began this fall on eastern end of C-410 Complex
- Work on Sector 4, area that housed fluorine generators, began 2/2/10, ends 3/30/11



C-411 maintenance area of C-410 Complex



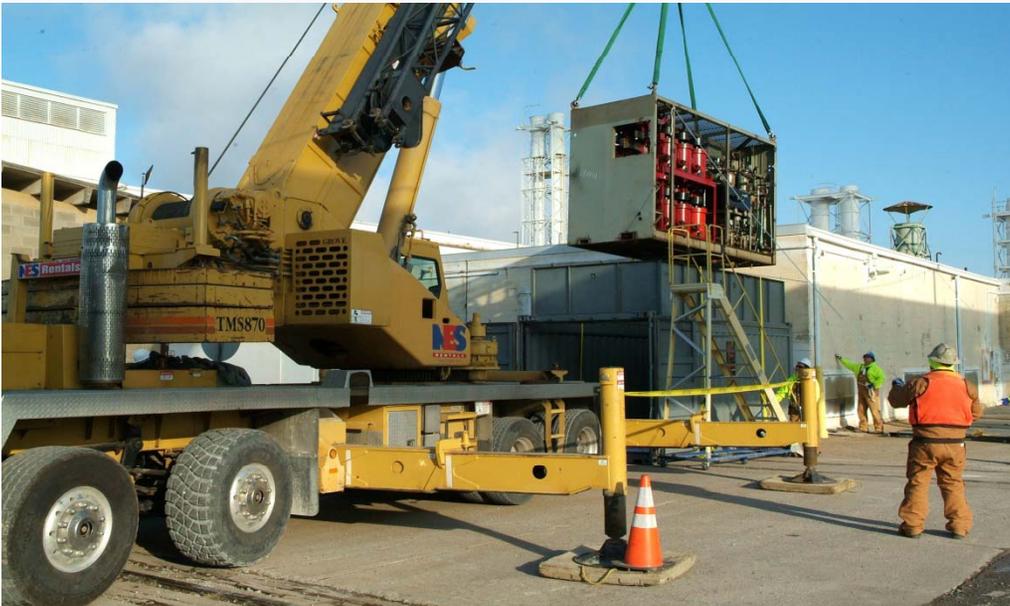
Post-removal of fluorine cells from C-411



# C-410 Feed Plant Work



Workers spreading flowable fill in a pit



Workers removing Ignitron from C- 410



# *C-746-A East End Smelter Demolition*



The high bay of the East End Smelter is toppled as demolition nears completion

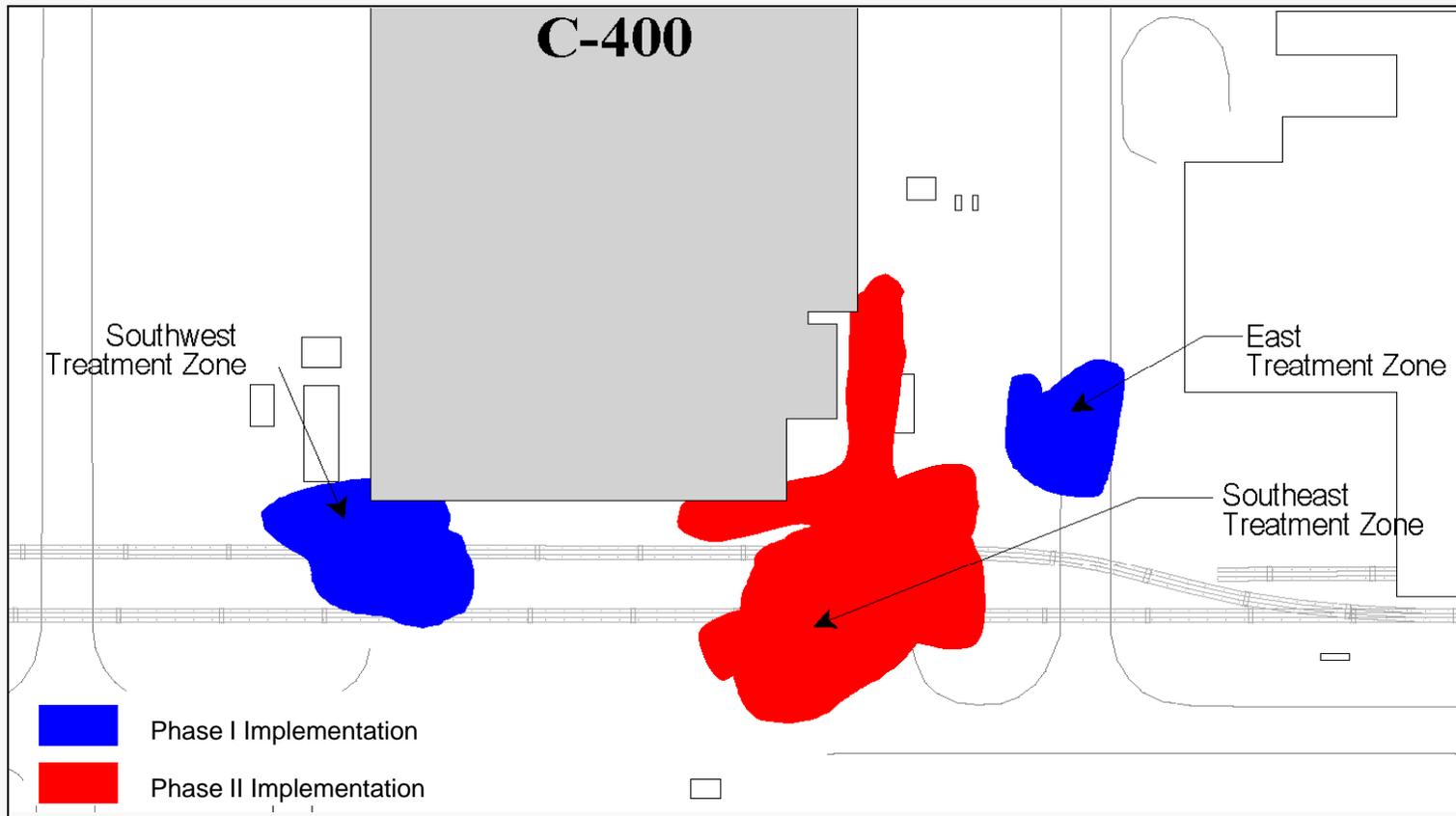


# *C-746-A East End Smelter Demolition*



Removing the final part of the structure

# C-400 Source Reduction



- Completed Phase I heating operations completed 10/2010
- Recovered ~520 gal. of TCE in Phase I
- Continuing Soil vapor extraction during subsurface cooling
- Evaluating Phase II path forward



# C-400 Heating Progress

- Pulsing treatment system through September as required pre-shutdown
- Will be working with Kentucky and EPA on Phase II path forward

## East Area Temperature

Average Temperature

Target Temperature UCRS (20-50 ft deep) **194 °F**

**223 °F**

Target Temperature UCRS (50-60 ft deep) **199 °F**

**228 °F**

## Southwest Area Temperature

Average Temperature

Target Temperature UCRS (20-50 ft deep) **194 °F**

**225 °F**

Target Temperature UCRS (50-60 ft deep) **199 °F**

**233 °F**

Target Temperature RGA (60-70 ft deep) **212 °F**

**224 °F**

Target Temperature RGA (70-100 ft deep) **220 °F**

**~130 °F**

# *Other Projects*

- **Nickel Ingots**

- Proposal evaluation continuing

- **DUF<sub>6</sub> Conversion**

- DOE Operational Readiness Review conducted August 24
- Team identified 13 action items that are being addressed before 'hot' testing
- Hot functional testing start anticipated for mid-October

# *Site Management Plan*

- The D1 FY 2011 Site Management Plan is due to EPA and Kentucky on November 15, 2010.
- The FFA parties have agreed to extend the submittal of the D1 SMP by 30 days to December 15, 2010.
- The extension allows for the FFA parties' respective senior managers to discuss the budget and scheduling impacts on the Paducah Remediation Program.
  - The extension also allows for the FFA parties to receive senior management feedback and guidance prior to finalization of the D1 FY 2011 SMP.



**DOE Portsmouth/Paducah Project Office**