



Paducah Gaseous Diffusion Plant
Citizens Advisory Board

January 21, 2010

Chair

Judy Clayton

Chair-Elect

Ralph Young

Board Members

John Anderson

Anna Brewer

Allen Burnett

Robert Coleman

David M. Franklin

Jonathan Hines

Shirley Lanier

Margaret Morgan

Dianne O'Brien

Elton Priddy

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

EHI Consultants, Inc.

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Agenda for the January 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

Subcommittee Chair Comments

-- 10 minutes

Presentations

-- 40 minutes

- *Understanding Risk-- Rich Bonczek, DOE*

Administrative Issues

-- 15 minutes

- *New Business and Recommendations*

Public Comments

-- 15 minutes

Final Comments

Adjourn



PADUCAH GASEOUS DIFFUSION CITIZENS ADVISORY BOARD

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Paducah Gaseous Diffusion Plant Citizens Advisory Board Meeting Minutes January 21, 2010

The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky on January 21, 2010, at 6 p.m.

Board members present: Judy Clayton, Ralph Young, Maggie Morgan, David Franklin, Robert Coleman, Allen Burnett, Elton Priddy, May Louise Zumwalt, Jonathan Hines

Board members absent: Shirley Lanier, Don Swearingen, John Anderson, Mark Sullivan, Dianne O'Brien, Alex Roman

Board Liaisons and related regulatory agency employees: Stephanie Brock, KY Radiation Health Branch, Dewey Crawford, KY Radiation Health Branch, Ed Winner, KY Dept. Waste Management, Gaye Brewer, KY Dept. Waste Management, Turpin Ballard, EPA, Tim Kreher, KY Dept. of Fish & Wildlife, Jeff Gibson, State of KY

Deputy Designated Federal Official: Reinhard Knerr

DOE Federal Coordinator: Buz Smith

U.S. Department of Energy (DOE) related employees: Bill Murphie, DOE, Joe Tarantino, PRS, Todd Butz, PRS, Steve Kuntz, PRS, Tom Sandbury SST, Jim Etheridge, PRS, Tony Graham, McCracken Co. Sheriff's Dept., Yvette Cantrelle, RSI, Rich Bonczek, DOE, Bruce Gardner, PRS, Suzanne Clinton, EHI, Eric Roberts, EHI, Jennifer Salsbury, PRS, Wes Hodges, PRS, Shawn Woods, PRS, Kevin Kytola, Sapere Consulting

Public: Darrell Sullivan, McCracken Co. Dept. of Education

Introductions

Kevin Kytola, Sapere Consulting, Board facilitator, welcomed everyone and allowed for round-table introductions. Kytola reviewed the scope of the CAB and stated fifteen minutes are allotted for public comment and that member of the public must sign in to speak.

Deputy Designated Federal Official Comments

Knerr presented project updates to the Board. All presentations are available on the CAB Website at www.pgpcab.org. Questions and answers (paraphrased) appear below.

Question/Comment	Answer
Burnett: Are you saying that all of the material storage areas have been cleared?	Knerr: All the waste that came out of those areas was shipped off-site. Some equipment

	that was installed in those facilities that was consistent with the regulatory agreement was not removed. This equipment (some of which is quite large) was fully characterized and anything hazardous associated with it was removed. The equipment was then secured, tagged, and set-aside for the eventual D&D of PGDP.
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Question/Comment	Answer
Burnett: With regard to the stimulus-funded projects, are you still adhering to a nine-month schedule?	Knerr: Yes, we're still trying to do that with regard to the ARRA Works Bill. What we'll see is the East End Smelter down to slab by the end of June. The ARRA work at the 340 Complex will include demo of buildings D and E (both ancillary structures) and the main facility demolition ready by June. Demo of 340 and waste removal will begin in June and run through the calendar year. For 410, the ARRA funding essentially makes possible an additional level of effort across-the-board to bring that facility down by the end of 2011.
Question/Comment	Answer
Young: During the most recent Chairs conference call it was made clear the DOE is really "riding herd" over the stimulus funding.	Knerr: We hope to position ourselves for additional funding.
Hines: Of the \$79 Million Paducah has received, is all that funding obligated?	Knerr: Yes.
Hines: We hope to get more then?	Knerr : We have plans and cost estimates on how we will spend the \$79 million. We also have some money that is held in reserve in case of cost overruns. If we are successful in coming in under cost that will leave some dollars available that we'll be able to continue to invest. Additionally, we want to be in a position where we can receive additional funding from Washington if it becomes available.
Hines: We've hired 200 people here from the local economy?	Knerr: Approximately 221 ARRA workers have been hired. That number does not include additional workers that (for instance) SST has hired to provide janitorial services, it doesn't include additional DOE technical support oversight contractors, doesn't include additional community benefits from the increased local spending.

DOE Federal Coordinator Comments

N/A

Liaison Comments

Ed Winner reported the Division of Waste Management is very happy with the pace of the work taking place at the PGDP. Turpin Ballard echoed Winner's comments saying EPA is similarly pleased with the progress at PGDP and that some significant risk reduction should be seen next month in the ground at C400.

Subcommittee Chair Comments

Ralph Young, Chair of the Future End Use Committee reported that KRCEE is spearheading the future use project and that step one of the public process is in progress. This included gathering input from local community leaders. Next step will be in late February-early March with other focus groups going through a similar process. The next step, in April or May, will be open to everyone in the community.

Maggie Morgan Chair of Groundwater, reported she and Ralph Young attended a meeting with Jeff Carmen during which the plan to move extraction wells for Northwest Plume was reported on. Siting recommendations have been made and the new wells should be installed by June. A possible recommendation may come from this subcommittee encouraging this process to continue at such a rapid pace.

Judy Clayton Chair of Burial Grounds Subcommittee, reported she is a committee of one and currently working her way through an eleven-hundred page document. She invited members of the CAB to consider serving on this subcommittee.

Chair-Elect Ralph Young invited new CAB members to consider which subcommittee they would like to serve on.

Heath Elementary School Sampling Presentation

Joe Tarantino of PRS reported emergency sampling work at Heath Elementary School was performed as the result of an anonymous letter received December 14, 2009 by DOE. This anonymous letter was authored by a former worker for a plumbing contractor at the PGDP. The letter states the unidentified worker drove truck loads of dirt from the PDGP site to the Heath Elementary School site (approximately in 1980). Many PRS resources were shifted to investigate this claim to protect the school, staff, and visitors as well as the surrounding neighborhood. The sampling work was completed prior to January 4, 2010, the date classes resumed after Christmas break.

Todd Butz, Manager of Environmental Health and Safety at PRS, gave a presentation outlining the process and particulars of the sampling work performed at Heath Elementary between December 14, 2009 and January 4, 2010. No objectionable material was found. The entire sampling presentation is available for review at the CAB website at www.pgpdcab.org.

Questions and answers (paraphrased) appear below.

Question/Comment	Answer
<p>Franklin: Other than the anonymous note, was there any other indication that harmful materials might be present at the Heath Elementary school site? This seems a major response to one note.</p>	<p>Murphie: No, there was no other indication. We researched the files and could neither confirm nor deny the possibility of contaminated soils at Heath Elementary. In the interest of protecting the students and the public, we mobilized our resources. Public health and safety is our top priority. We diverted workers engaged in clean-up work at the plant in order to accomplish this sampling work as quickly as possible. Because the allegations involved a school, we erred on the side of conservatism. This doesn't mean this sort of effort will take place every time a claim is received. Clearly, however, if people have legitimate information, we would like it to be brought to our attention.</p>

Administrative Issues

Ralph Young suggested the CAB consider drafting a recommendation commending DOE and Liaison agencies for working quickly, collaboratively and creatively as they have most recently in the case of the siting of extraction wells at the Northwest Plume. CAB agreed by general consensus to consider a recommendation that DOE continue to search for opportunities to accelerate and streamline work.

It was agreed that the Executive Committee would work with Knerr to manage the process of citizen service on CAB subcommittees.

Public Comments

Jennifer Salsbury introduced herself as the newest person at PRS serving as interim legal counsel. Salsbury is from Albuquerque, NM and has worked extensively with DOE. She was involved in the opening of the WHIP facility at Carlsbad.

Darrell Sullivan, Facility Director for McCracken Co Public Schools stated he wished to thank all the agencies involved in the quick, thorough sampling process at Heath Elementary as well as the rapid, reliable results that were provided. This quick response was invaluable to the students, staff, and parents at Heath.

The meeting adjourned at 7:45 p.m.

Solving Cleanup Challenges Through Risk Reduction

2009 Highlights
2010 Look Ahead



Presentation for Paducah CAB

Reinhard Knerr, Paducah Site Lead
January 21, 2009



EM Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

2009 Accomplishments

- Demolished two 60-year-old water towers
- Completed DMSA characterization
- Completed DMSA disposition
- Neared completion of legacy waste removal
- Completed C-400 Phase I construction and started testing
- Reused C-342 ammonia tanks at C-746-U Landfill
- Completed C-746-D yard excavation
- Began accelerated D&D of 3 inactive facilities (ARRA-funded)
- Started surface water hot spot removal
- Started removal of two soil facilities
- Started expansion of groundwater monitoring wells network
- Completed sitewide flyover

Water Tower Demolition



- Towers once part of Kentucky Ordnance Works
- Converted to use in PGDP fire suppression system; idled in 1980s
- Demolished February 2009
- Concrete and steel salvaged for reuse/recycling



Waste Removal

✓ 33 Priority A
100% Complete

✓ 11 Priority B
100% Complete

✓ 116 Priority C
100% Complete



Key regulatory milestone met

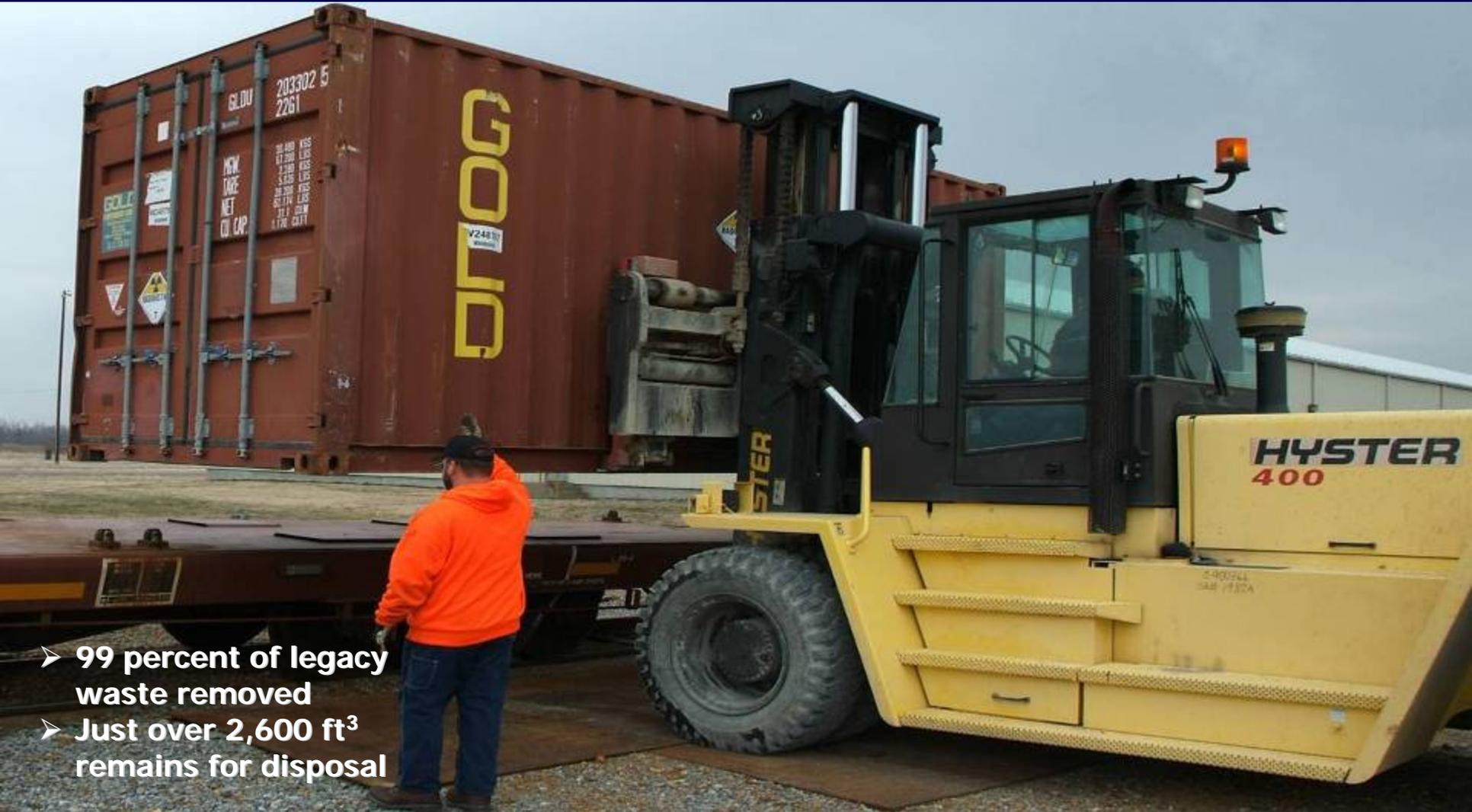
Completed characterization of DMSA material ahead of agreed deadline

Waste Removal



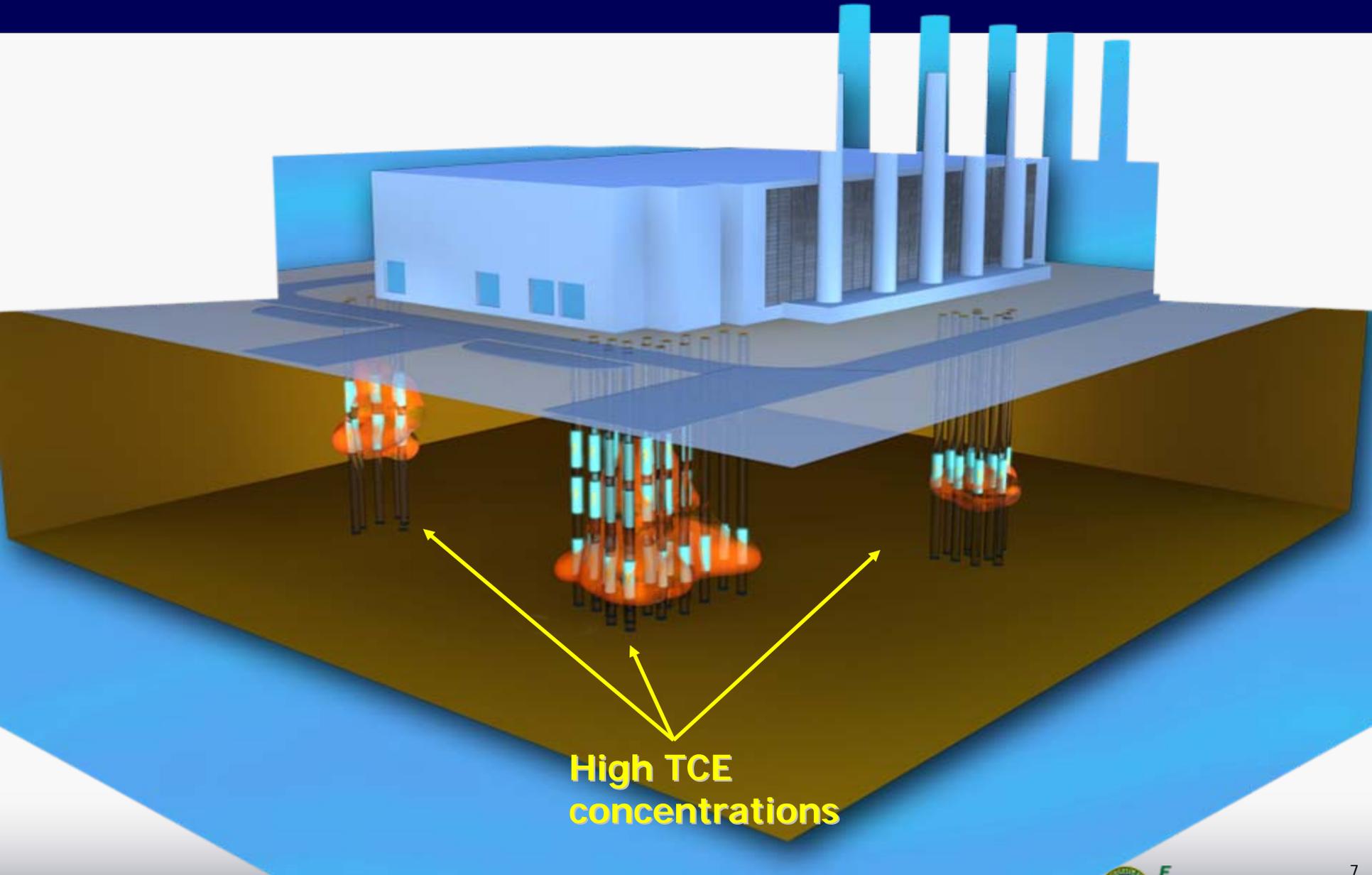
Disposition of 615,000 ft³ of waste from 160 DOE Material Storage Areas completed

Waste Removal



- 99 percent of legacy waste removed
- Just over 2,600 ft³ remains for disposal

C-400 TCE Source Reduction



**High TCE
concentrations**

C-400 Treatment System Construction



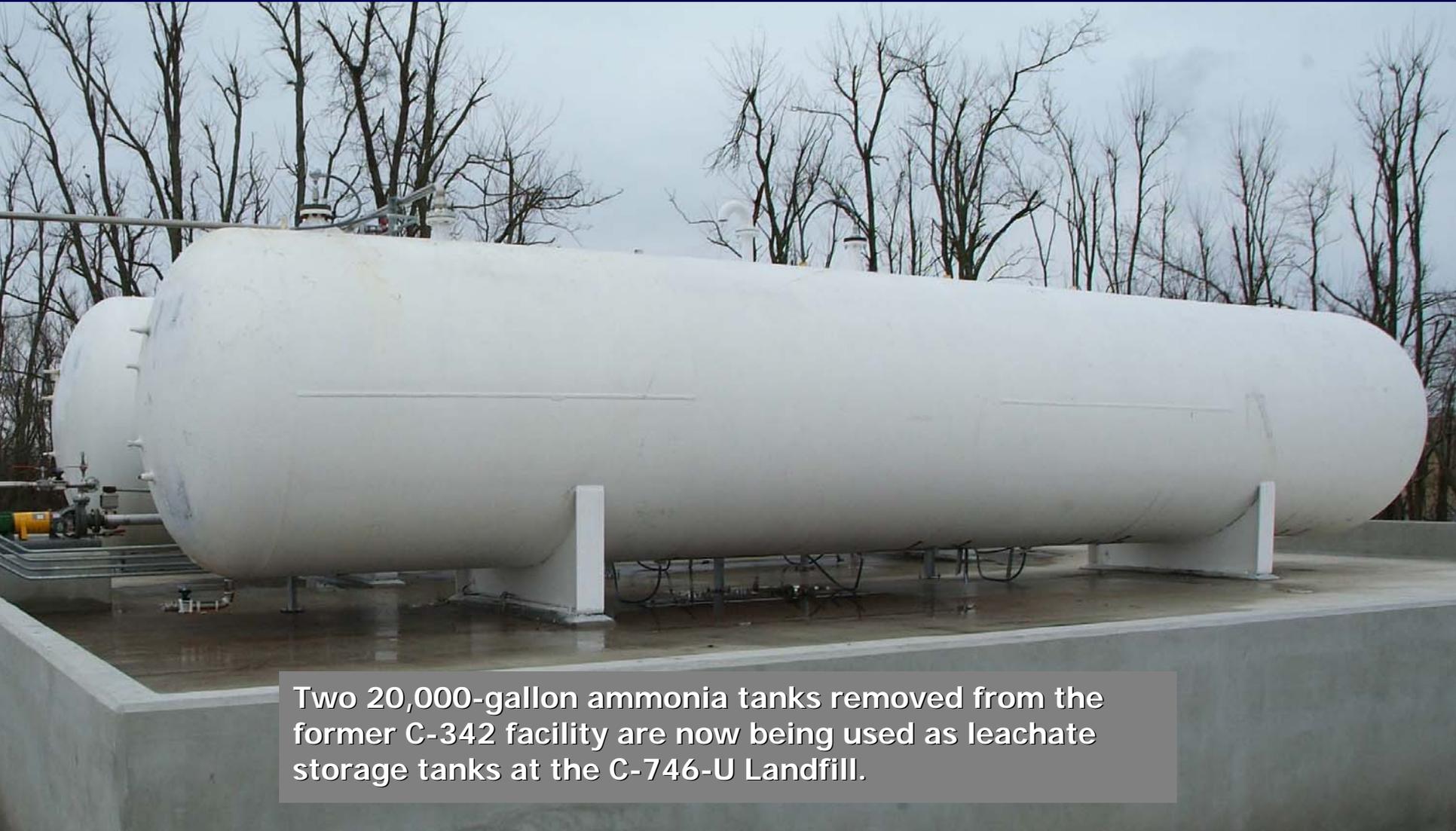
C-400 Treatment System Construction



C-400 Treatment System Construction



Ammonia Tank Reuse



Two 20,000-gallon ammonia tanks removed from the former C-342 facility are now being used as leachate storage tanks at the C-746-U Landfill.

C-746-D Contaminated Soil Removal



The D-Yard site today after removal work was completed

Accelerated D&D

Feed Plant



Paducah has received \$78.8 million in additional funding to accelerate the removal of 3 facilities

C-410 Feed Plant

- 1-year acceleration
- ARRA-funded work has begun



Accelerated D&D



C-340 Metals Plant

- 5-year acceleration
- ARRA-funded work has begun



Metals Plant

Accelerated D&D

East End Smelter



- C-746-A East End Smelter**
- 22-year acceleration
 - ARRA-funded work has begun



Contaminated Soil Removal

Contaminated soils are removed from a ditch on the east side of the plant near the C-331 process building



Contaminated Soil Removal

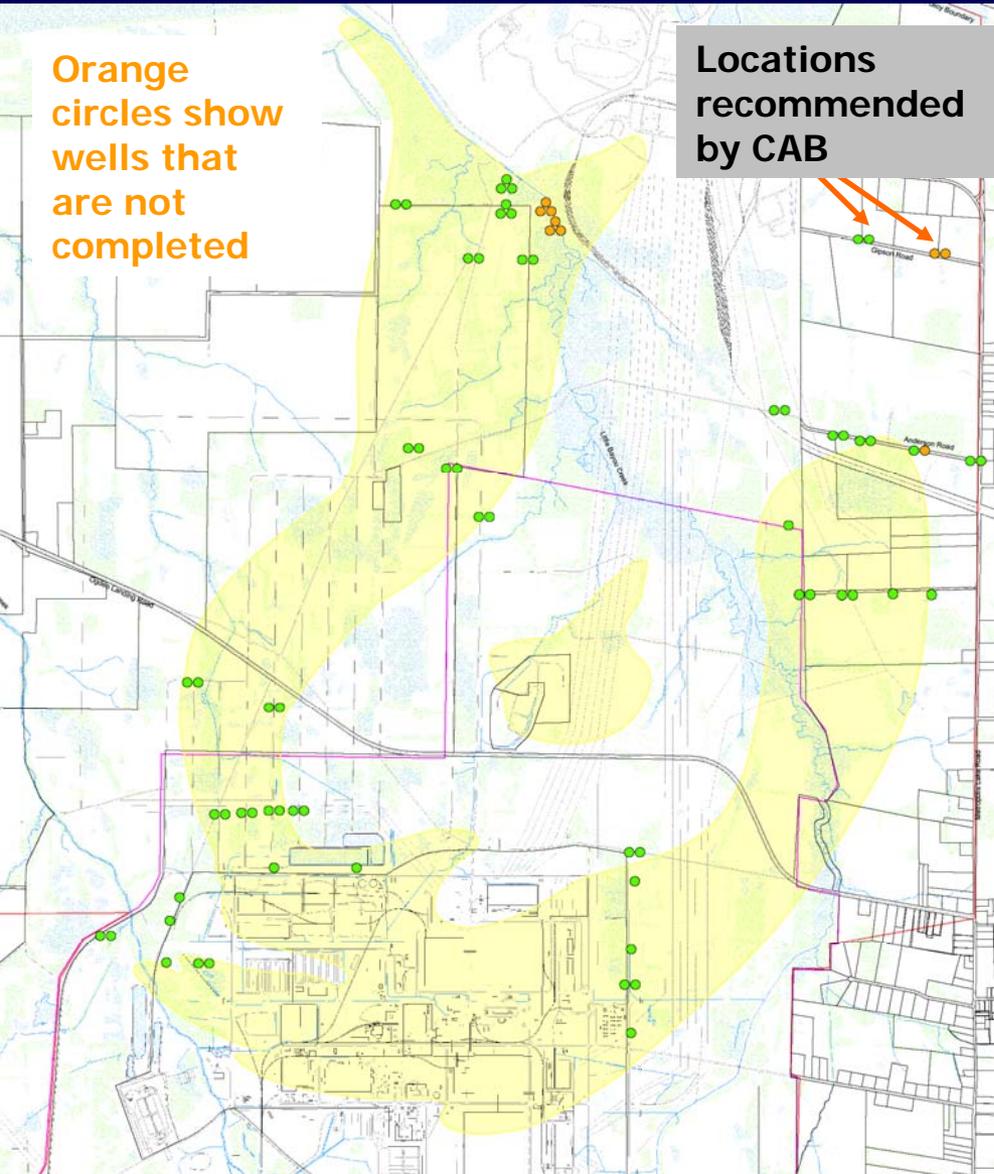
Contaminated soil is removed and bagged for disposal from the closed C-218 Firing Range



New Groundwater Monitoring Wells

Orange circles show wells that are not completed

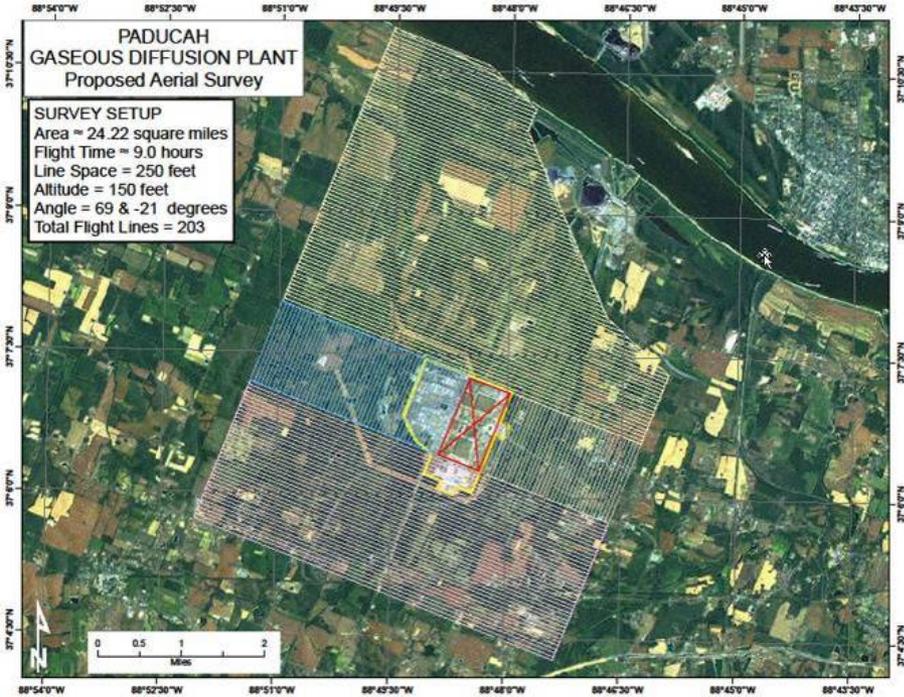
Locations recommended by CAB



- 64 new groundwater monitoring wells installed
- 9 more wells to be installed



Site Walkover/Radiological Flyover



- Flyover completed in November 2009
- No unexpected radiation readings detected



Waste Disposal Options Public Involvement

Welcome!

Thanks for taking time

to come to tonight's public information exchange about the future of the Paducah site.

Please visit the exhibits and let us know your suggestions and comments before you leave.

If you want more information on any DOE project, please ask a staff member for assistance.

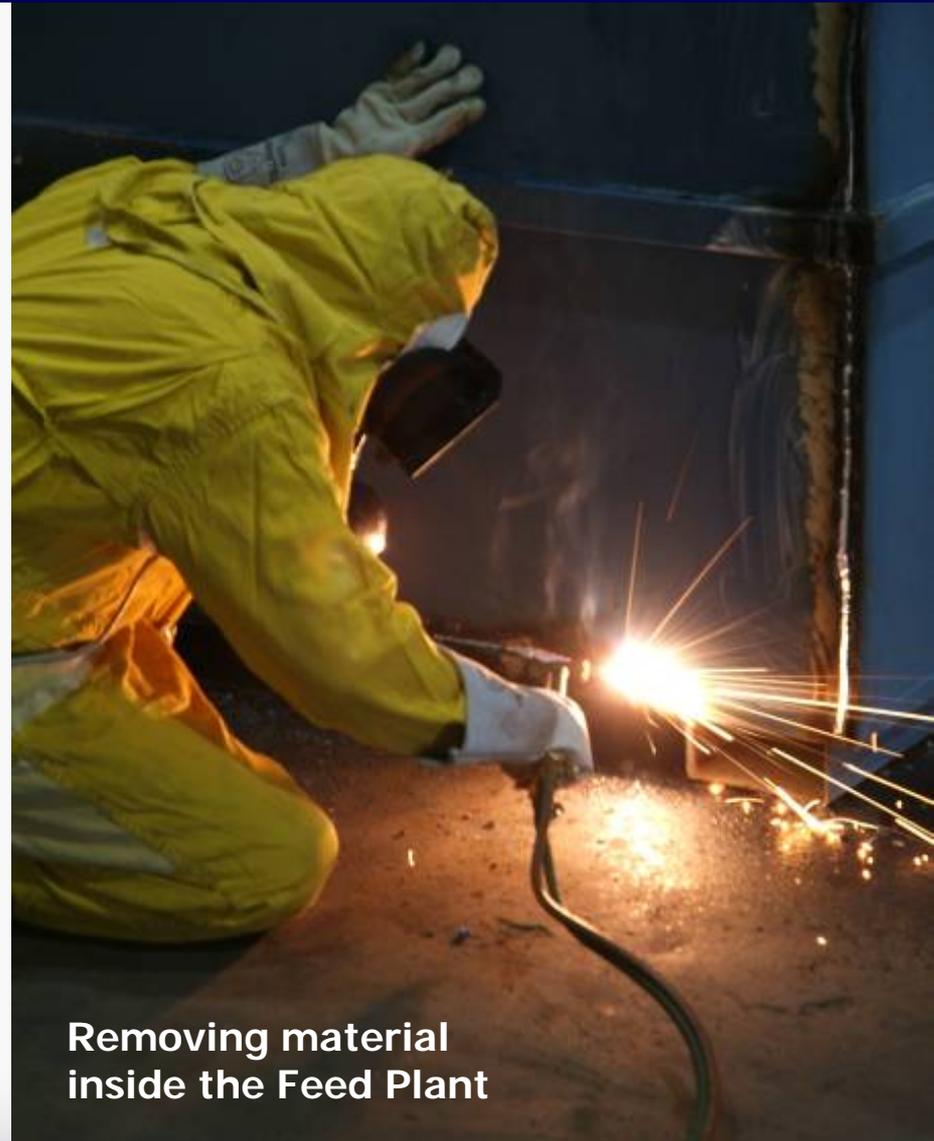
Please let us know what you think before you leave!

- Work on Feasibility Study continues
- Plans for next public meeting are being finalized
- CAB has provided helpful input at previous meeting and in planning for the next event



2010 – Major Planned Items

- Begin full-scale operations of C-400 source removal
- Complete accelerated ARRA-funded work
- Complete Soils and Surface Water actions
- Complete decision documents for SW Plume
- Issue BGOU Feasibility Study
- Issue Waste Disposal Options Feasibility Study
- Begin Soils Remedial Investigation
- Complete enhancement of monitoring well network



Removing material
inside the Feed Plant

DUF₆ Conversion Facility



- Construction completed on conversion facility
- Testing underway





DOE Portsmouth/Paducah Project Office