



Paducah Gaseous Diffusion Plant
Citizens Advisory Board

May 21, 2009

Proposed Agenda for the May Board Meeting

Chair

Bobby Ann Lee

Chair-Elect

Judy Clayton

Board Members

John Anderson

Anna Brewer

Allen Burnett

Robert Coleman

Matt Duncan

Jonathan Hines

Shirley Lanier

Margaret Morgan

Dianne O'Brien

Elton Priddy

Alex Roman

John Russell, Ph.D.

Mark Sullivan

Don Swearingen

Ralph Young

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

Rob Gresham

Radiation Health Branch

Support Services

EHI Consultants, Inc.

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6:00

Call to order, introductions

Review of agenda

DDFO's Comments

-- 20 minutes

Federal Coordinator Comments

-- 5 minutes

Liaison Comments

-- 10 minutes

Committee Chair Comments

-- 10 minutes

Chairs Meeting Update

--10 minutes

Presentations

-- 30 minutes

**-Kentucky Research Consortium for
Energy and the Environment (KRCEE)**

Public Comments

-- 10 minutes

Administrative Issues

-- 10 minutes

Motions

Final Comments

Adjourn

Solving Cleanup Challenges Through Risk Reduction

Progress at the
Paducah Gaseous
Diffusion Plant

Presentation for
Paducah CAB

Reinhard Knerr, Paducah Site Lead

May 21, 2009



Presentation Highlights

Legacy Waste



DOE Material Storage Areas



C-400 Interim Remedial Action



Inactive Facilities



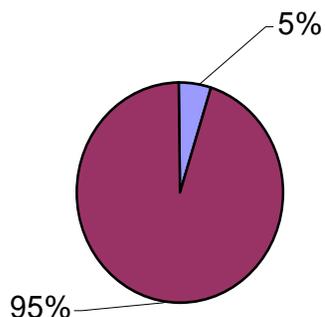
Legacy Waste

The Paducah Site stored more than 500,000 ft³ of legacy waste materials.

Fewer than 25,000 ft³ remain for disposition.

Legacy Waste Status – May 2009

■ Remaining as of 04/30/09 ■ Disposed as of 04/30/09



Beginning Inventory FY02 = 515,122 ft³



An outside storage area is shown before removal work began and as it looked in April 2009 as removal neared completion.



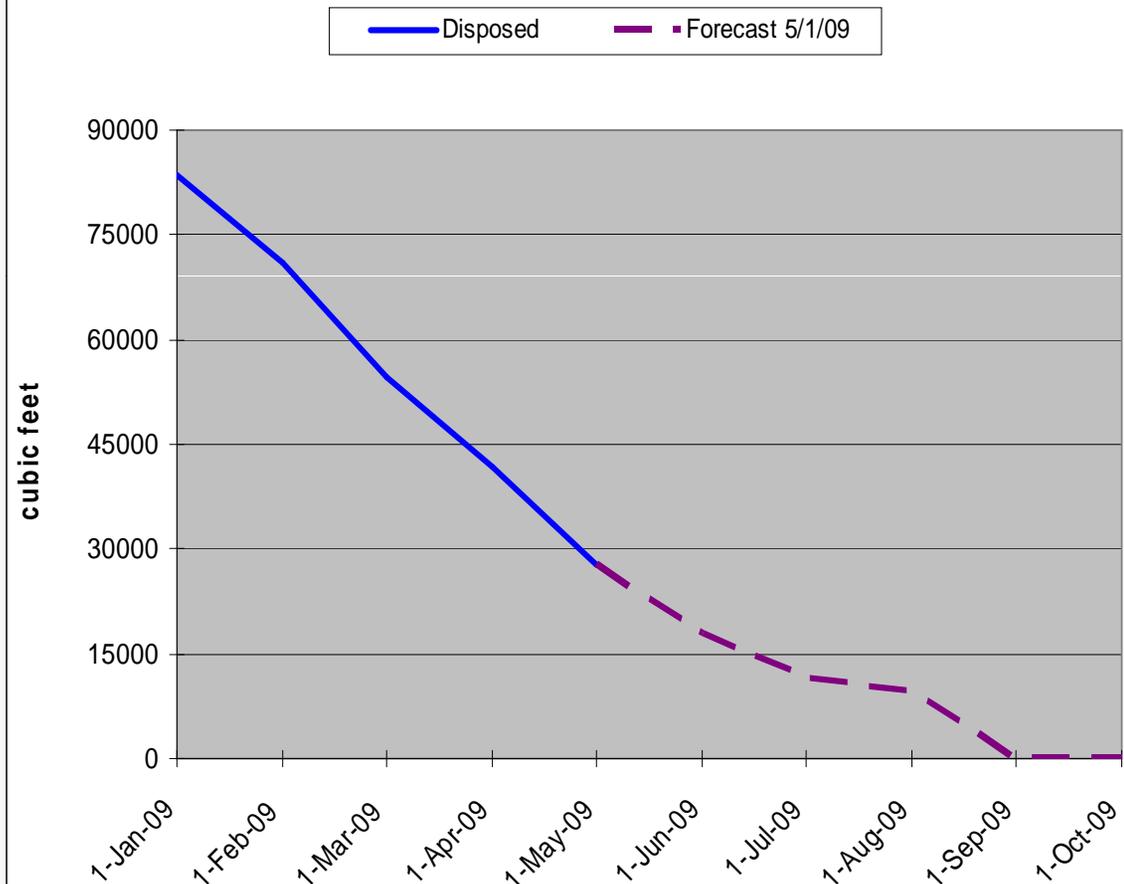
Legacy Waste

The schedule for completing disposition is September 2009. Material will be disposed of in C-746-U landfill or sent to off-site facilities for treatment/disposal.



2009 Legacy Waste Disposition

Legacy Waste Disposition and Forecast

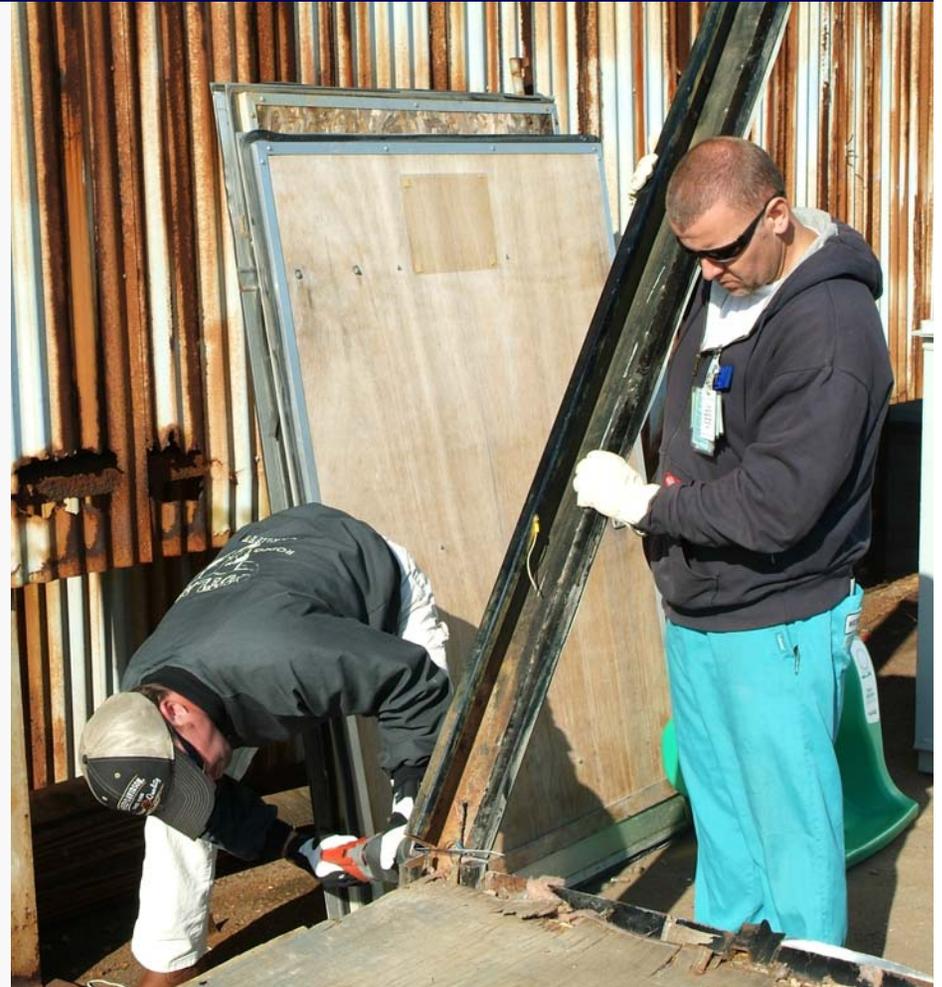


Waste material is prepared for shipment.

DOE Material Storage Areas

PRS projects characterization of all DMSA materials will be completed the last week of May.

As of the end of April 2009, only 3,000 ft³ of 820,000 ft³ of material remained for characterization.



Debris is moved from a DMSA for characterization.

DOE Material Storage Areas

All DMSA materials requiring disposition are scheduled to be shipped before September 30.

As of the end of April 2009, 16,000 ft³ of the 615,000 ft³ requiring disposition remained on the site.



DMSA material is loaded for disposition.

C-400 TCE Source Reduction



DOE is installing a system along the southern edge of the C-400 Cleaning Building that will use electrical resistance heating to vaporize the degreaser TCE that has contaminated the soil up to 100 ft below the surface.

The system is being built in two phases, Phase I – to the east and southwest – and Phase II – to the southeast of C-400. The design of Phase II may be modified based on lessons learned during Phase I operations.

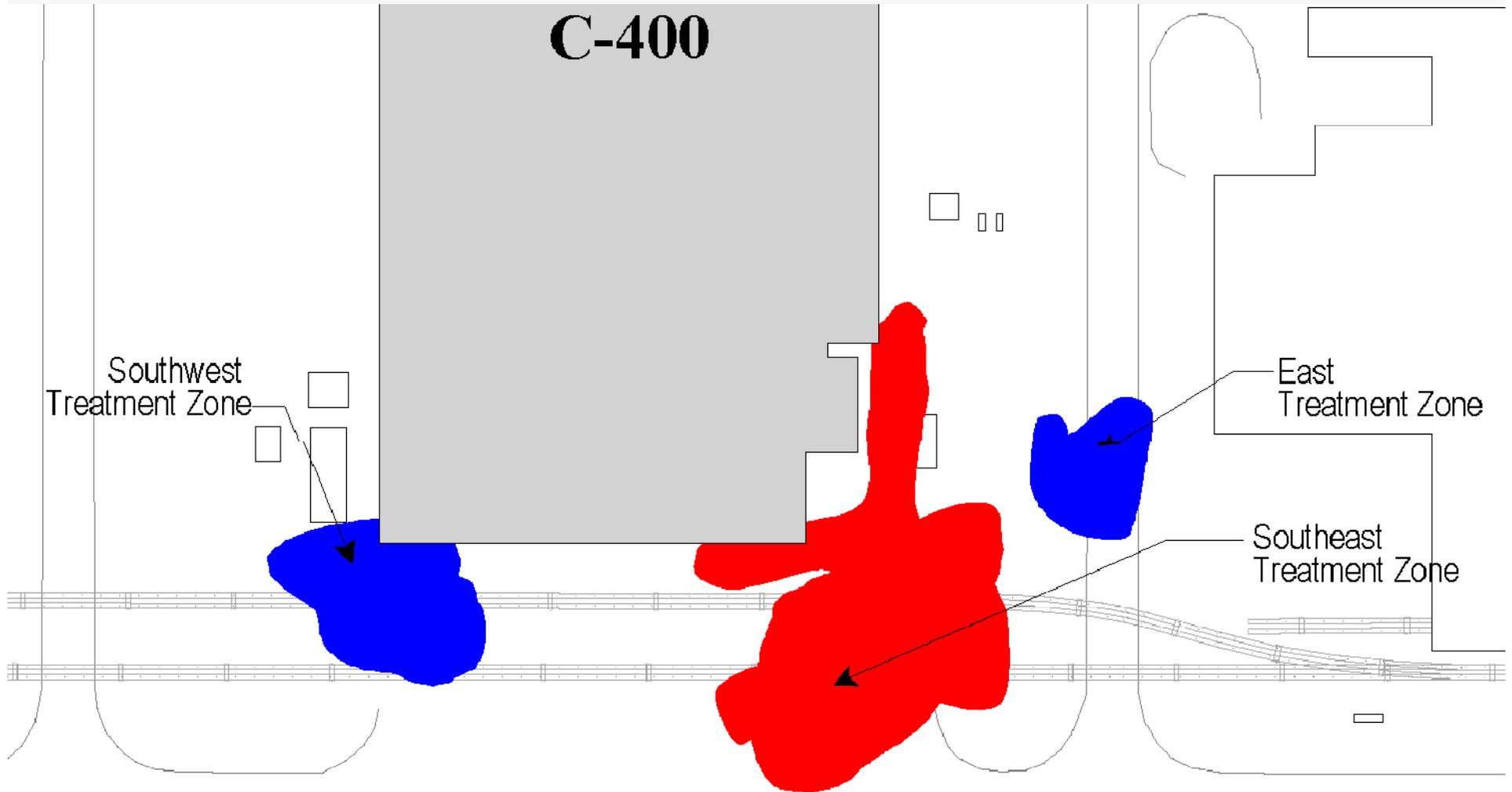
- Drilling and installation of Phase I electrodes more than 90% complete
- Installation of subsurface components scheduled for June completion
- Construction of surface portion of system will continue into July

Preparing to make a boring.



C-400 TCE Source Reduction

Construction and treatment in two phases: Blue area is Phase I, red area is Phase II.



C-400 TCE Source Reduction

- System testing scheduled to begin when construction is complete
- Operations targeted to begin in September



Construction of the aboveground portion of the treatment system has been completed.

American Recovery and Reinvestment Act Status

Funding to begin planning and document preparation has been received by Paducah.

- 8 people have been hired
- Another 54 scheduled to be hired by August 4
- An additional about ~100 jobs will be added later
- \$78.8 million in additional funding
- Will allow 3 Paducah facilities to be removed earlier than scheduled



- Accelerated work on C-410 to begin late June
- All three facilities to be removed to the slab by September 30, 2011

Want more information? www.energy.gov/recovery/

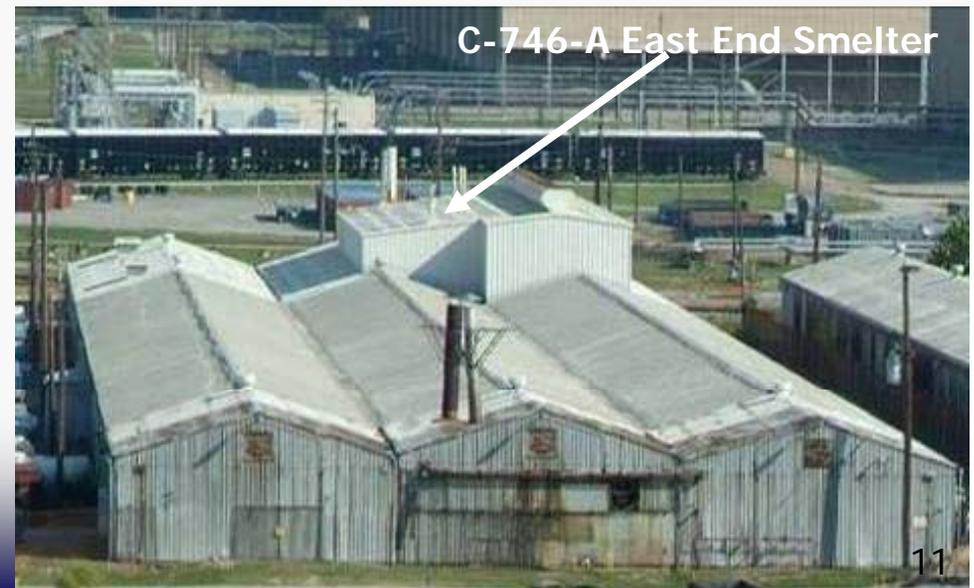
American Recovery and Reinvestment Act Status

**Removal actions
being performed
under provisions of
both CERCLA and
NEPA.**

- Key items in the next two months include training new personnel and deploying them to Feed Plant work



C-340 Metals Plant



C-746-A East End Smelter

Additional Information

- On May 18, DOE and PRS received a Notice of Violation related to the C-746-U Landfill permit requirements
- Notice included three issues, none relating to risks to human health or the environment
 1. Failure to perform periodic equipment inspections as required by the landfill permit
 2. Use of soils from inside the plant security fence for cover
 3. Staging of waste longer than allowed in the permit



Some of the C-746-U Landfill equipment on which periodic inspection reports were not completed.

Additional Information



The C-746-U Landfill.

Additional Information

Remedial measures required by the NOV have been completed

- Corrective actions were already in place on equipment inspections
- No additional soils from plant site are staged or scheduled for use
- Concrete stockpiled for erosion control has been placed in the landfill



Concrete rubble stockpiled for erosion control is removed for disposal in the landfill.



DOE Portsmouth/Paducah Project Office