



February 3, 2011

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 L. Murphy
Dianne O'Brien
Ben Peterson
Elton Priddy
Ronnie Rathman
Alex Roman
Mark Sullivan
Don Swearingen
May Louise Zumwalt

Student Participant
R. Colby Davis

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

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Agenda for the rescheduled January Board Meeting

6:00

Call to order, introductions
Review of agenda

DDFO's Comments

-- 15 minutes

Federal Coordinator Comments

-- 5 minutes

Liaison Comments

-- 5 minutes

Administrative Issues

- Recommendation 11-1, Southwest Plume Sources
- Review Work Plan

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 February 3, 2011

The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky on Thursday, February 3rd at 6:00 p.m. The meeting was originally scheduled for January 20th, but was cancelled due to inclement weather.

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

Board members absent: Shirley Lanier; Mark Sullivan

Student Participant: Colby Davis (absent)

Board Liaisons and related regulatory agency employees: Gaye Brewer; Kentucky Department of Waste Management (KDWM); 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, Bill Franz, Sarah Bynum Roman, Eddie Spraggs, Eddie Magness, Sam Boss, Joe Walker, LATA Kentucky (LATAKy); Scott Smith, Swift & Staley (S&S); Eric Roberts, Suzanne Clinton, EHI Consultants (EHI); Greg Felts; Tony Graham

Public: Gary VanderBoegh; George L. Johnson

Introductions

CAB Chair, Judy Clayton called the meeting to order at 6:02 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** asked that board members note the November 17 minutes draft, and then called for round-table introductions.

Clayton asked if any members had additions or corrections to the November minutes. There being none, **Young** moved that the minutes be approved as written. The motion was seconded by **Coleman**.

MOTION APPROVED

Deputy Designated Federal Official Comments

Knerr presented project updates to the Board. All presentations are available on the CAB Website at www.pgpdcab.org.

The meeting broke briefly for a group photo session.

DOE Federal Coordinator Comments

None

Liaison Comments

None

Administrative Issues

- Recommendation 11-1, Southwest Plume Sources

Morgan introduced Recommendation 11-1, Southwest Plume Sources reporting that based on the results of the Phase 1, C-400 Electrical Resistance Heating Project, DOE had made the decision to go back to the Environmental Protection Agency and delay the submittal of the Southwest Plume Sources D2/R1 Proposed Plan. **Morgan** continued saying that, while timely remediation is important, the Ad Hoc subcommittee concurs that further evaluation, including technical feasibility and cost effectiveness of alternative technologies, is appropriate in this case. At **Clayton's** request, **Morgan** read the Recommendation into the record:

Recommendation 11-1, Southwest Plume Sources Project:

Recognizing that making any kind of change after a consensus has been reached by DOE and the regulators is difficult; the CAB supports DOE's decision to delay the submittal of the Southwest Plume Sources D2/R1 Proposed Plan pending further evaluation of proposed remediation alternatives. With the data collected to date for the C-400 project, we concur with the DOE that this technology may not be the best treatment option for the southwest plume sources. The CAB also supports DOE's decision to re-evaluate their options before resubmitting the Southwest Plume Sources Proposed Plan to the regulators.

While we understand that it is important for the DOE to aggressively implement technologies that will address environmental risks found at the PGDP site, we also feel it is important to make practical decisions using tax payer dollars for these remediation efforts.

We encourage DOE to continue to be diligent in the use of cleanup funds at the site. The CAB understands that delaying the CERCLA process is frustrating and costly for all concerned, but in this case, we feel the delay is justified.

As the CAB considers the project timeline, the remediation process has been delayed by an estimated eight months, which in the overall scope of the cleanup process, is insignificant. The lessons learned from this action will be beneficial to future cleanup actions at the site, and could result in expedited decisions. We look forward to continuing our work with the DOE on this project, including learning more about the alternatives being considered for treatment of the southwest plume sources.

Clayton asked if there was any additional discussion on the recommendation currently on the table. There being none, **Priddy** moved to approve the recommendation as written; **Franklin** seconded the motion.

Clayton stated the board must open the floor for any comments from those present on Recommendation 11-1. **Clayton** asked if anyone present has comments on the Recommendation currently under consideration.

Johnson stated he was interested in knowing how much DOE had budgeted for this process. He further stated he understands the “significance of this process” but asked how much money was budgeted to do the work. Johnson stated the budget is an important consideration in processes such as these.

Morgan stated she understands the mandate on DOE must be difficult to balance at times with pressure, on one hand, to complete the work quickly and, at the same time, equal pressure to do the work efficiently and cost effectively on the other hand.

Clayton called for a vote on the motion on the table.

MOTION APPROVED

Murphie stated he didn’t want to make any comment before the vote, but commended the CAB on taking the time to study and weigh in on this issue which, as Morgan said, becomes complicated considering the pressure for both remediation progress and cost effective solutions.

- Review Work Plan

Clayton stated the CAB received several requests from DOE for additional feedback on previously submitted recommendations: Recommendation 10-07 “PGDP Site Museum” the DOE response to which reads, in part, *Furthermore, DOE requests additional information regarding the CAB’s vision for preserving artifacts* and Recommendation 10-06 “Siting Criteria for a Potential CERCLA Cell” the response of which reads, in part, *DOE requests that the CAB, as representatives of the community, provide DOE a more specific, actionable*

recommendation by evaluating any applicable "non-technical" factors, weighing them and then providing DOE a recommendation regarding siting a potential CERCLA cell at the site.

Clayton continued saying these requests along with other issues make it necessary to amend the Work Plan. The proposed changes were discussed extensively at the Executive Committee meeting held February 1st. **Roberts** added that it's typical in the spring for the Work Plan to require adjustment because input needs estimated in August of the previous year often do not jibe with the work that is actually underway. **Roberts** continued saying, as is the case this fiscal year, the work plan leaves the month of June open for this purpose, in case topics need to slide forward to allow other unforeseen issues to be addressed in a timely manner.

The proposed changes are as follows (noted in red):

Waste Disposition

2010 - 2011 Topics

Month	Subject	Topic
October 2010	Waste Disposal Options Siting/Long Term Impacts	Subcommittee tour of possible locations of a potential CERCLA waste disposal facility in preparation for a recommendation to DOE. Discussion of long term impacts of siting an on-site cell.
December 2010	Asset Recovery/Recycling/Microwave Smelter	Presentation on potential viability of an asset recovery/recycling program for D&D of the PGDP in preparation for a recommendation to DOE
February 2011	Review DOE request for additional information [added]	Recommendation 10-06, Siting Criteria for a Potential CERCLA Cell [added]
April 2011	Waste Disposal Options Alternatives-Cost/Benefit Analysis [pushed from February]	Evaluate Waste Disposal Alternatives at the site [pushed from February]
June 2011	Waste Disposal Options ARARs/WAC [pushed from April]	Review and consider contaminants that will be a part of the waste generated for disposal [pushed from April]
August 2011	FY 2012 Project Briefings	Project Update and Briefings in preparation for Annual CAB Retreat

Funding and Scheduling Impacts Subcommittee

2010 - 2011 Topics

Month	Subject	Topic
October 2010	Levelized Funding	
December 2010	Asset Recovery/Recycling/Microwave Smelter	Presentation on potential viability of an asset recovery/recycling program for D&D of the PGDP in preparation for a recommendation to DOE
February 2011	Review Site Management Plan & Integrated Priorities List. [added]	Possible Recommendation (s) to DOE [added]
April 2011	*	
June 2011	*	
August 2011	FY 2012 Project Briefings	Project Update and Briefings in preparation for Annual CAB Retreat

Historical Preservation Subcommittee

2010 - 2011 Topics

Month	Subject	Topic
October 2010	Historical Preservation	Status presentation by KRCEE on assigned scope in preparation for possible recommendation to DOE. Discuss activities related to site's 60 th Anniversary
December 2010	Open	Open – Possible attendance at Asset Recovery/Recycling discussion
February 2011	Review DOE request for additional information [added]	Recommendation 10-07, PGDP Site Museum [added]
April 2011	Historical Preservation [pushed from February]	Review information on other sites and Presentation by USEC (Portsmouth) on tools currently being used to preserve PORTS history in preparation for possible recommendation to DOE [pushed from February]
June 2011	Historical Preservation [pushed from April]	Review progress of KRCEE initiatives and discuss future options for (center, museum, etc.) Historical Preservation at Paducah [pushed from April]
August 2011	FY 2012 Project Briefings	Project Update and Briefings in preparation for Annual CAB Retreat

Community Involvement Subcommittee

2010 - 2011 Topics

Month	Subject	Topic
October 2010	Speakers Bureau presentation/ Eco Fair/School Outreach/KRCEE/ Government Access TV	Discuss subcommittee topics and outline implementation plan.
December 2010	Open	Open – Possible attendance at Asset Recovery/Recycling discussion
February 2011	Community Involvement [added]	Develop Community Involvement Plan [added]
April 2011		
June 2011		
August 2011	FY 2012 Project Briefings	Project Update and Briefings in preparation for Annual CAB Retreat

Southwest Plume Ad-Hoc

Ad-hoc Committee Name	Description	Term
1)Southwest Plume Ad-hoc	A timely investigation into a proposed path forward for remediation of Southwest Plume sources.	Target reporting date: November 18, 2010 CAB Meeting
Date TBD	SW Plume Feasibility Study & Proposed Plan [added]	Possible Recommendation on technical alternatives [added]

Clayton asked if there was any additional discussion on the amended Work Plan. There being none, **Priddy** moved to approve the amended Work Plan as written; **Peterson** seconded the motion.

MOTION APPROVED

Presentations

None

Subcommittee Chair Comments

Clayton reported for the Executive Committee saying a meeting was held Tuesday, February 1st. The CAB's top three issues for submission at the Spring Chairs Meeting (April, 2011) was discussed and it was decided the question would be added as an item to individual subcommittee agendas on February 17th to gather feedback from CAB members. **Clayton** said the Paducah CAB would have 5 minutes to offer their suggestions to Dr. Triay on local issues and that it is important that members offer well thought-out items on which, ideally, Dr. Triay can have an impact. **Clayton** stated the Chairs travel budget was also discussed at the meeting. **Clayton** continued saying the subcommittees have not met since their reports at the November 17th CAB meeting and that the CAB held a working session in December at which Bill Murphie gave a presentation on asset recovery.

Public Comments

Clayton stated six attendees signed up to make public comments. She reminded those present that the 15-minute time period allotted for public comment would be split between the six speakers which gives speakers approximately 2.5 minutes each.

Bill Franz, Operations Manager for LATAKy, stated it's been six months since LATA took over as remediation contractor at the PGDP site. He said LATA appreciates the skilled workforce available to the company in the region as well as their work ethic and the way they have embraced the safety programs that have been put into place which have resulted in improved safety for remediation workers. **Franz** said he looks forward to the next six months at the PGDP.

Eddie Magness, Safety Manager for LATAKy, stated he feels LATA is working with a great group of people at the PGDP in regard to both safety and the performance of remediation work for the Department of Energy. He said employees have embraced a "culture of safety" at the site. **Magness** added that he and his family enjoy living in the region and that he looks forward to continuing remediation work at the PGDP site.

Sam Boss, Industrial Hygiene Manager for LATAKy, stated LATA has a comprehensive industrial hygiene program for which he receives full support from the management team and his organization. He said his program covers a confined space entry program and a chemical safety management program. **Boss** continued saying his team reviews all chemicals that are purchased for the site to make sure they are the safest chemicals that can be used at the site. His department's sole responsibility is to ensure that workers leave the site at least as healthy as or healthier than they were when they came to the site. **Boss** thanked the CAB for the opportunity to speak.

Sarah Roman, Community Affairs Coordinator for LATAKy, reported that, as well as skilled and focused on safety, LATA employees are also focused on the community. **Roman** said the LATA team won the Business division for the Salvation Army bell ringing, raising over \$5,000 for the Salvation Army during the Christmas season. She said much of the credit for this effort goes to Jim Etheridge who was instrumental in recruiting LATA employees to participate.

Roman reported in addition to the Salvation Army, LATA employees are also committed to supporting the United way as well as Relay for Life. She said a chili cook-off was held earlier in the day in support of Relay for Life. **Roman** thanked Buz Smith for acting as a judge at the event. She thanked members of the CAB for their support of and participation in the Public Information Exchange held January 18-19 at Heath High School and West Kentucky Community and Technical College.

Gary VanderBoegh, Commonwealth Environmental Services, stated that the contractor should be able to speak any time and that members of the public should be offered more time than two minutes in which to speak at the meeting. **VanderBoegh** stated that his company represents sick nuclear workers and passed some information to CAB members saying the document had been provided to Dr. Inés R. Triay [Assistant Secretary for Environmental Management]. **VanderBoegh** said he understands the CAB has a meeting in Las Vegas. He said that he wanted to go on record as saying no members of the public are allowed to meet with Dr. Triay although, in his opinion, there should be others besides board members or CAB members afforded that opportunity. **VanderBoegh** stated he is an advocate for the workers, that he is linked with Cold War Patriots, and that he is trying to promote public awareness of the conditions in the plant associated with the workers. He said he would like to be able to invite workers to the meeting to discuss safety issues, but that he did not believe they would be allowed to come to the meeting and discuss those issues. **VanderBoegh** continued saying there will soon be whistleblower complaints go before federal administration judges in Paducah and added that both DOE and LATA is aware of that. He said workers need to be fully protected under the 10 CFR 708 Whistleblower Program.

Barbara Mazurowski, Project Manager for LATAKy, stated she appreciates the opportunity to work under the current contract. She said she's recently begun speaking to all the workers at LATAKy to make them aware that funding under ARRA [American Recovery and Reinvestment Act] is coming to an end. Mazurowski continued saying building 340 will be demo ready by the end of April; building 410 will be ready by the end of September and planned D&D work is coming to an end this fiscal year. She said because the work is ending, LATA will be experiencing reductions in the workforce. Mazurowski said she wanted all employees to be aware of these reductions so they might take the necessary steps in order to plan for the layoff. She said no numbers are as yet available on just how many workers will be laid off, but the reductions will occur between April and the end of September, 2011 and possibly beyond that. Mazurowski stated she is very sorry the work is coming to an end and said she wanted everyone to be aware that LATA is working closely with DOE to make sure employees get the benefits and training that they need in order to secure another job following the reduction.

There being no further public comments, **Clayton** asked if there were any additional comments from the table. **Hines** stated he wants CAB members to be aware he is working on a project called the “Cold War Patriot’s House” which is under development in a neighborhood across from Lourdes Hospital. The house at 1223 Lone Oak Road was donated by Dr. Argotte and relocated. **Hines** said the project is a means by which to honor sick nuclear workers across the country and, along with the house; a memorial garden will be developed at the new site. Hines said a number of people have volunteered to work on the project, funding sources have been identified, and the project design (house renovation) has received preliminary approval from the City of Paducah. Hines said he hopes the project will come in at approximately half a million dollars upon completion.

There being no further business, the meeting adjourned at 6:54 p.m.

Recommendation 11-1

Southwest Plume Sources

Originated by the Ad Hoc
Subcommittee

Maggie Morgan, Chair

C-400 Source Reduction



Southwest Treatment Area

- Extracted, treated more than 2.5 million gallons of groundwater
- Recovered 174 gallons of TCE from extracted vapor



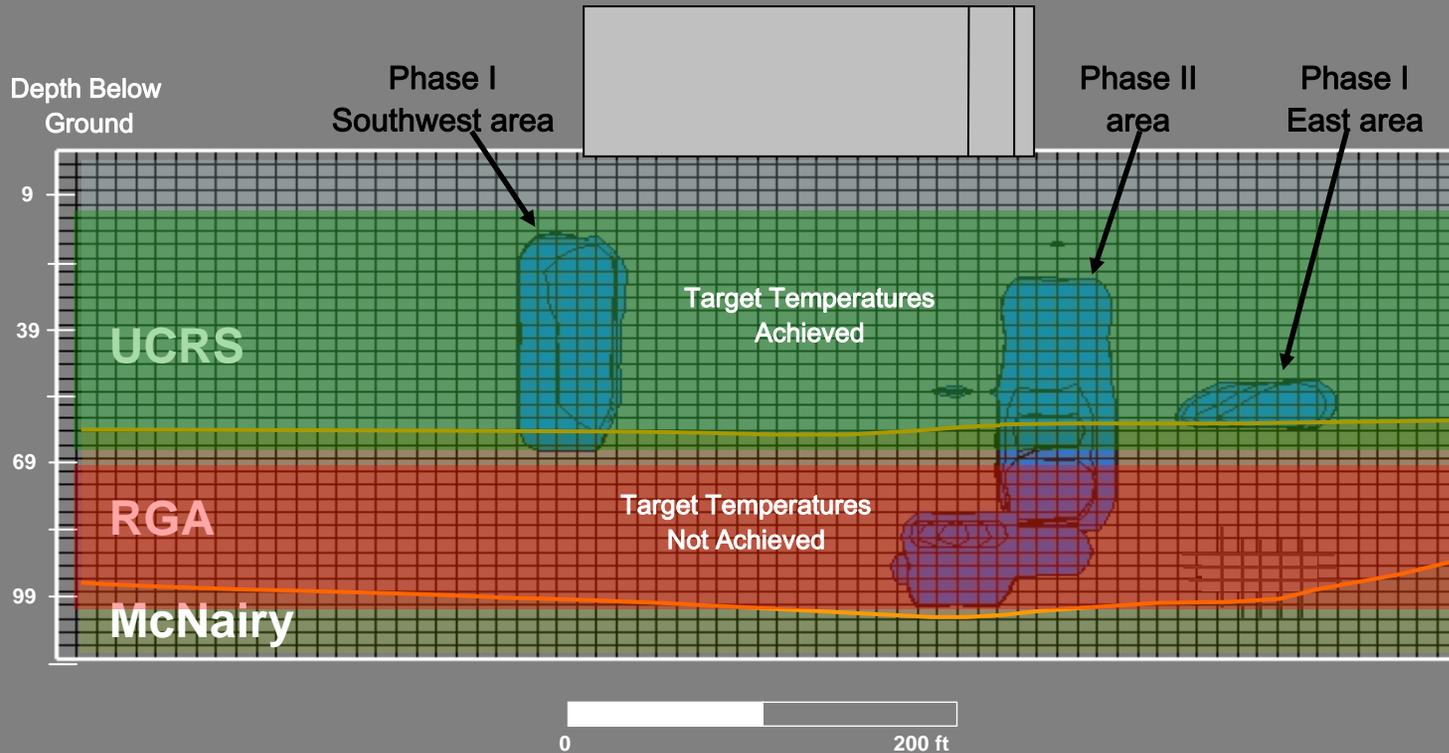
East Treatment Area

- Extracted, treated more than 1.5 million gallons of groundwater
- Recovered 289 gallons of TCE from extracted vapor

C-400 TCE Source Reduction

Conceptual Site Model

CROSS-SECTION VIEW (looking north)



Potential "DNAPL" Zone based only on MIP data

- **Recognizing that making any kind of change after a consensus has been reached by DOE and the regulators is difficult, the CAB supports DOE's decision to delay the submittal of the Southwest Plume Sources D2/R1 Proposed Plan pending further evaluation of proposed remediation alternatives. With the data collected to date for the C-400 project, we concur with the DOE that this technology may not be the best treatment option for the southwest plume sources. The CAB also supports DOE's decision to re-evaluate their options before resubmitting the Southwest Plume Sources Proposed Plan to the regulators.**

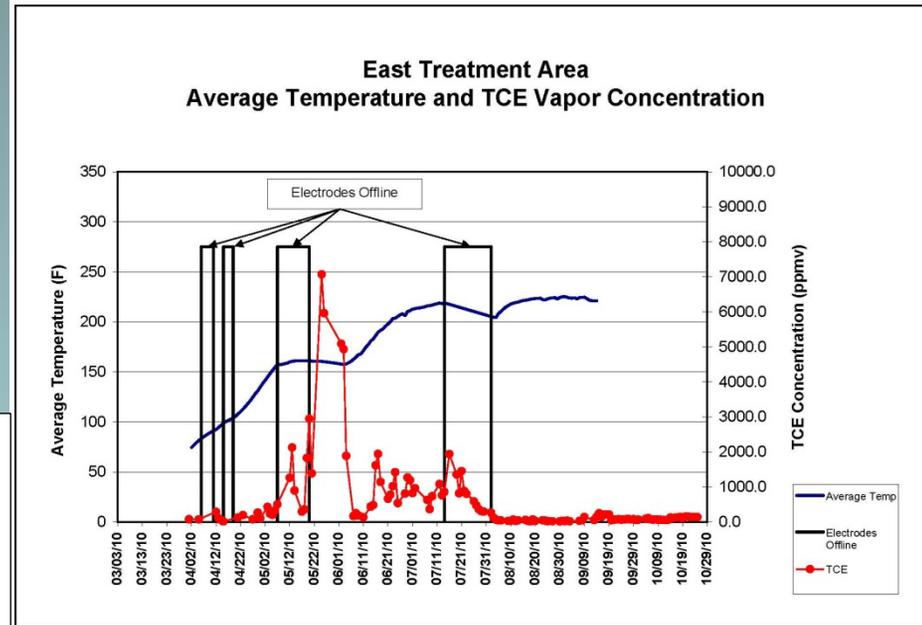
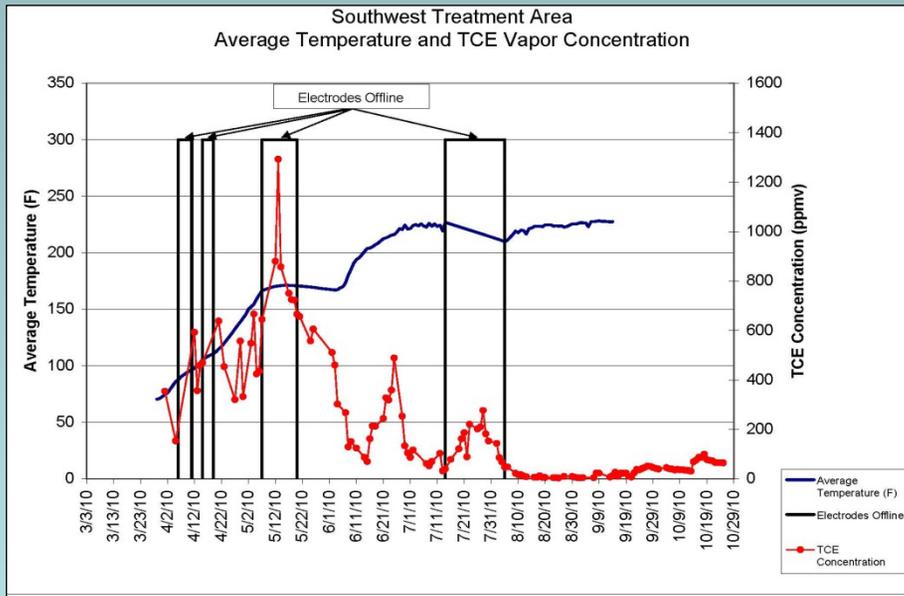
- **While we understand that it is important for the DOE to aggressively implement technologies that will address environmental risks found at the PGDP site, we also feel it is important to make practical decisions using tax payer dollars for these remediation efforts. We encourage DOE to continue to be diligent in the use of cleanup funds at the site. The CAB understands that delaying the CERCLA process is frustrating and costly for all concerned, but in this case, we feel the delay is justified.**

- **As the CAB considers the project timeline, the remediation process has been delayed by an estimated eight months, which in the overall scope of the cleanup process, is insignificant. The lessons learned from this action will be beneficial to future cleanup actions at the site, and could result in expedited decisions. We look forward to continuing our work with the DOE on this project, including learning more about the alternatives being considered for treatment of the southwest plume sources.**

Groundwater Operable Unit

ROD Goals Achieved in Phase I Areas

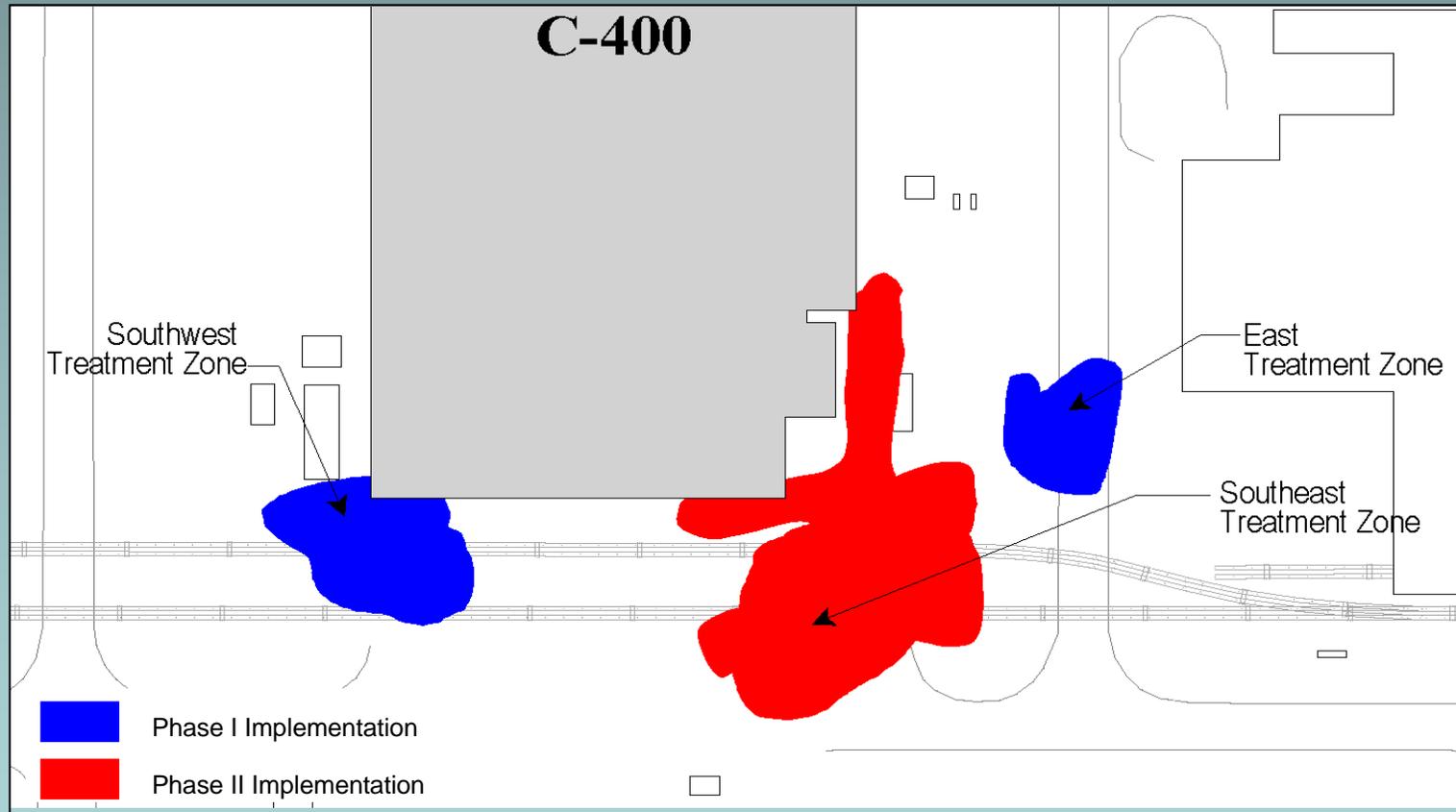
- Reached stable target temps
- TCE mass removal in vapor at asymptotic level



C-400 TCE Source Reduction

- Recovered TCE volume was significantly less than estimated
- Inability to reach target temperature in RGA
- Difficulty in reaching consensus for ceasing operations of Phase I

C-400 Source Reduction



- **Completed Phase I heating operations 10/29/2010**
- Recovered ~560 gal. of TCE from Phase I source areas
- Soil vapor extraction continues to facilitate subsurface cooling
- Evaluating Phase II path forward