



Paducah Gaseous Diffusion Plant  
Citizens Advisory Board

July 16, 2009

## Proposed Agenda for the July 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

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

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[info@pdpcab.org](mailto:info@pdpcab.org)

### 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

### Presentations

-- 30 minutes

### Administrative Issues

-- 10 minutes

Motions

### 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 July 16, 2009

The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky, July 16, 2009, at 6 p.m.

**Board members present:** Bobby Lee, Judy Clayton, Maggie Morgan, Ralph Young, Robert Coleman, Shirley Lanier, Anna Brewer, Mark Sullivan, Allen Burnett, John Anderson, Dianne O'Brien

**Board members absent:** Jonathan Hines, Matt Duncan, Alex Roman, Don Swearingen

**Board Liaisons and related regulatory agency employees:** Stephanie Brock and Rob Gresham KyRHB, Gaye Brewer KyDWM, Ed Winner, KDWM, Turpin Ballard, EPA, Brian Begley, KyDWM, Todd Mullins, KDEP

**Deputy Designated Federal Official:** Reinhard Knerr

**DOE Federal Coordinator:** Buz Smith

**U.S. Department of Energy (DOE) related employees:** Rich Bonczek, DOE; Suzanne Clinton, EHI; Bruce Gardner, PRS; Lynn Foster, SST; Harmony Paulsen, Sapere; Eric Roberts, EHI; Kate Brennen, DOE; Jim Etheridge, PRS; and Ted Theopolos, DOE, Rich Bonczek, DOE; Todd Nelson USW; Del R. Baird, CDM

**Public:** Steve Kopp, Oak Ridge; Delores Kopp, Oak Ridge; Joe Hudson, Building & Trades Medical

### Introductions

Harmony Paulsen, Sapere Consulting, Board facilitator welcomed everyone and allowed for round-table introductions. Paulsen 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](http://www.pgpcab.org). Questions and answers (paraphrased) appear below.

| Question/Comment                                    | Answer                                     |
|-----------------------------------------------------|--------------------------------------------|
| <b>Lee:</b> Can you give examples or any details on | <b>Knerr:</b> There are a number of safety |

|                                                           |                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| what type of safety training the new hires are receiving? | training programs—some required by OSHA; in addition there is radiological worker training (when appropriate) and various job specific training programs. Newly hired workers are trained for a full six weeks before beginning work. Additionally, training is ongoing. |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Question/Comment                                                                                                                                                      | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Burnett:</b> It's my understanding that stimulus money must be spent within two years. What happens if those funds are not expended within the two-year timeframe? | <b>Knerr:</b> We do expect to complete the work within the timeframe. The two-year time frame is an internal limitation. When projects were selected, criteria were established and certain preferences given. If by chance we are unable to complete the work on time, we would go ahead and finish up in fiscal year 2011. There is a 20% withholding; if projects are not executing successfully, those funds could be pulled and assigned to more successful projects. The flipside is that if projects are completed in a timely manner under cost and ahead of schedule, we can use those funds to accelerate additional work projects. All funds must be expended by 2015. |

Knerr presented the upcoming 2010 Budget. All presentations are available on the CAB Website at [www.pgpcab.org](http://www.pgpcab.org).

| Question/Comment                                                                                                                                                                                                                                                                         | Answer |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Lee:</b> Lee commented that Knerr has provided the CAB with the Integrated Priorities List and that providing input on those priorities is one place where the CAB can influence decision-making about clean-up. This issue will be visited in more detail at the fall board retreat. | n/a    |

#### Liaison Comments

Turpin Ballard, EPA, reported that they have been moving forward with implementing the “core-team” process on project scoping in Paducah. Sapere conducted training in April using ongoing projects as a basis for exercises in communication. The process is intended to improve the feedback and communication and facilitate the review/comment/approval process. The process was very successful at Savannah River. Also, regarding the withholding percentage that Reinhard mentioned earlier; EPA is working hard to retain that withholding and guarantee those funds go toward additional Paducah projects.

| Question/Comment | Answer |
|------------------|--------|
|------------------|--------|

|                                                                                          |                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Young:</b> What's the status on the Southwest Plume Focused Feasibility Study?</p> | <p><b>Ballard:</b> We just received the Study for review. A number of scoping meetings have already been held prior to the release of the study. We have approximately a 90-day review period during which we will perform a 9-point review.</p> |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ed Winner, Kentucky Division of Waste Management, reiterated the “core-team” process is important considering the volume of documents that are reviewed. A meeting was held in Oak Ridge recently to discuss modeling parameters for seismic concerns in western Kentucky; the CAB should receive a presentation on seismic issues within the next few months.

**Committee Chair Comments**

Ralph Young reported the Groundwater subcommittee had a presentation from Bruce Phillips on the hydrogeology of the site which led to focusing on the Southwest Plume. The subcommittee has the executive summary on the Southwest Plume Focused Feasibility Study.

Robert Coleman, Outreach Committee reported that in addition to the distributed information, the committee is working to get as much information out to the public as possible. The committee will explore disseminating information through Channel 2 at WKCTC. In regard to the injured worker comments made at CAB meetings that are actually outside the scope of the board; the committee is working to develop a public comment brochure with contact information on the proper people and organizations that can address those concerns. Lee commented that a brochure from the Department of Labor is available at the CAB offices, and could be distributed to visitors interested in work related issues.

Yvette Cantrelle reported that, at Bobby Lee’s suggestion, she has been working with WKMS, the local National Public Radio affiliate, to develop and air a series of commentaries on the site. Those commentaries are being finalized and should be on air shortly.

Allen Burnett, co-chair of the Waste/D&D subcommittee reported a presentation by John Gadd was given on waste disposal options at the April subcommittee meeting. This issue will continue to be a major focus of the subcommittee.

Bobby Lee, chair of the Future Use Subcommittee reported two focus group meetings have been conducted. The subcommittee is now working on scenarios which incorporate the potential activities provided by the focus groups. A meeting with KRCEE is scheduled in August to discuss how CAB activities will be incorporated with their future use project.

**Administrative Issues**

**Motion #1**

**Anderson moved the board affirm Judy Clayton as the next Chairperson of the Citizens Advisory Board effective October 1, 2009. Lanier seconded the motion.**

**APPROVED  
(11-0)**

**Motion #2**

**Lee moved the board approve Ralph Young as the Chair-elect of the Citizens Advisory Board for FY 2010. Burnett seconded the motion.**

**APPROVED  
(11-0)**

Lee stated her tenure with the CAB is ending effective October 1, 2009; her last meetings will be September 2009.

**Chairs Meeting**

Lee reported the fall Chairs meeting will be held September 21-25 in Idaho Falls, Idaho. Four CAB members can attend and the event is a great learning experience for any CAB members that might be interested.

The board agreed on the following top three issues and accomplishments for presentation at the Fall Chairs Meeting.

**Top Three Issues**

- **Inclusion of options in future RFPs**
- CAB involvement with KRCEE as they begin the process of a community wide Future Use Study for the site
- Continued public education information and involvement in the decision on the path forward on waste disposal options

Accomplishment:

- Installation of C-400
- Recognition of new members on the board

No requests for public comment were recorded in the sign-in sheet.

The meeting adjourned at 8:35 p.m.

Solving Cleanup Challenges Through Risk Reduction

Progress at the  
Paducah Gaseous  
Diffusion Plant

Presentation for  
Paducah CAB

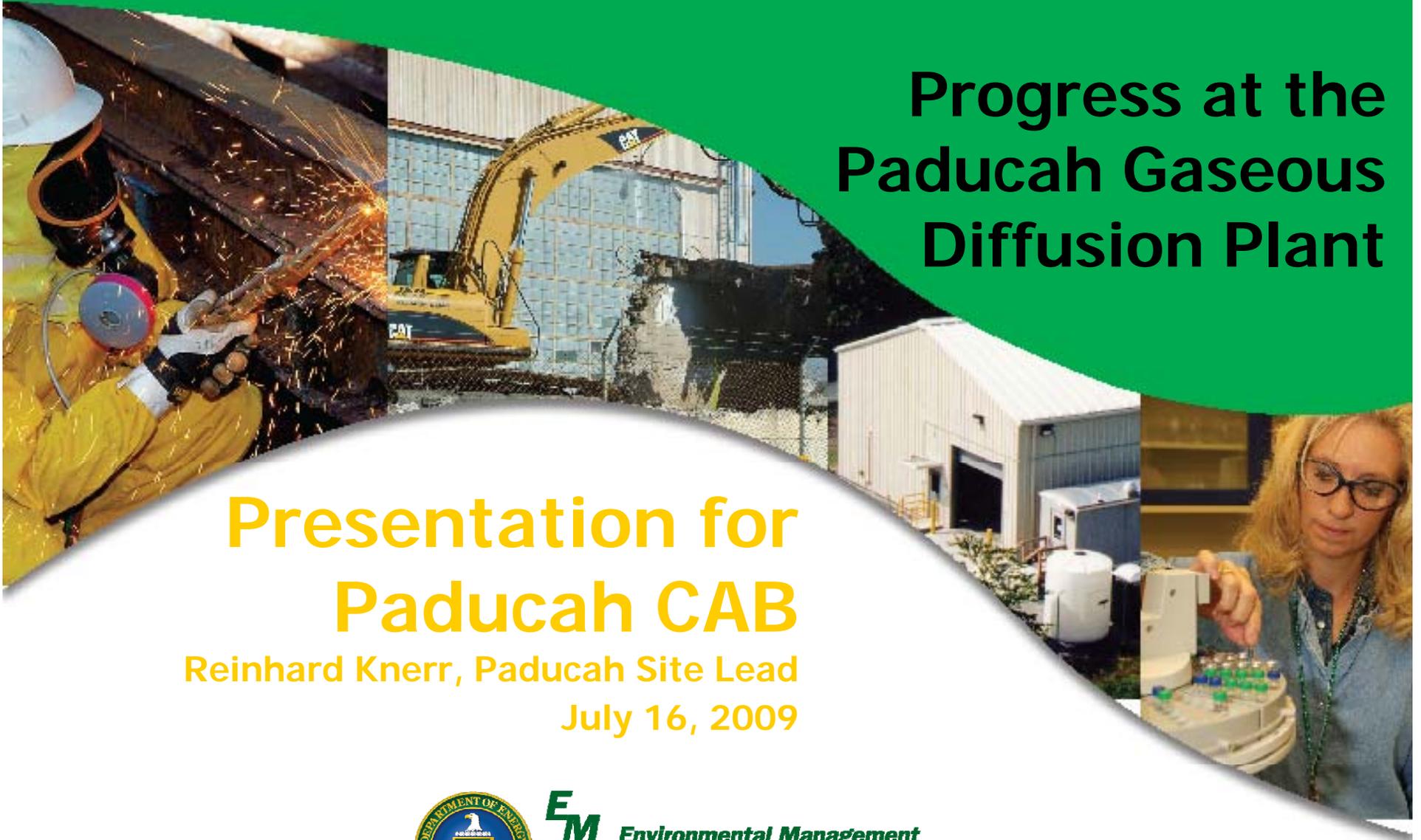
Reinhard Knerr, Paducah Site Lead

July 16, 2009



**EM** Environmental Management

safety ♦ performance ♦ cleanup ♦ closure



# Presentation Highlights

**C-400 Interim Remedial Action**



**Inactive Facilities  
ARRA Projects**



**Waste Removal Status**



## *C-400 TCE Source Reduction*



**Drilling and installation of the belowground treatment system has been completed.**

**Construction of the aboveground portion of the system will be completed in August 2009. Testing scheduled to start in September.**

**System operation to follow successful system test.**

**One of the final borings is made.**

## *C-400 TCE Source Reduction*

DOE planning  
public  
celebration  
when system  
goes on line.



A view from the roof of an adjacent building shows one of the final borings.

## *Inactive Facility Removal – ARRA Projects*

**First new hires on the job.**

**Decision document preparation underway.**

- Engineering Evaluation/ Cost Analysis (EE/CA) for Metals Plant and East End Smelter scheduled for submittal to EPA/KY in July
  - Action Memoranda will follow EE/CA approvals
- Existing C-410 Action Memorandum will be modified



**New workers hired to conduct D&D work under ARRA are shown how to use a radiation scanner before entering the C-410 Feed Plant where they will work initially.**

## ***ARRA Projects – C-410 Feed Plant***

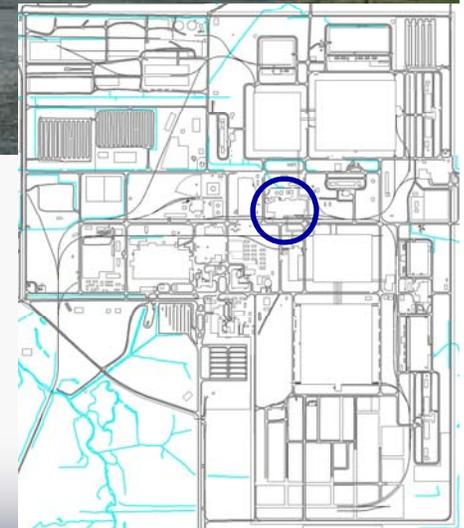
**Acceleration work has begun.**

**First 8 workers hired completed 6-week training program end of June 2009.**

- 11 additional workers hired for field and support positions
- 43 additional workers will be hired in the next month
- New workers will start at C-410 until work begins at other facilities
- Hiring for another ~90 positions continues
- Nearly 2,000 applications received



C-410 Feed Plant



## *ARRA Projects – C-340 Metals Plant*

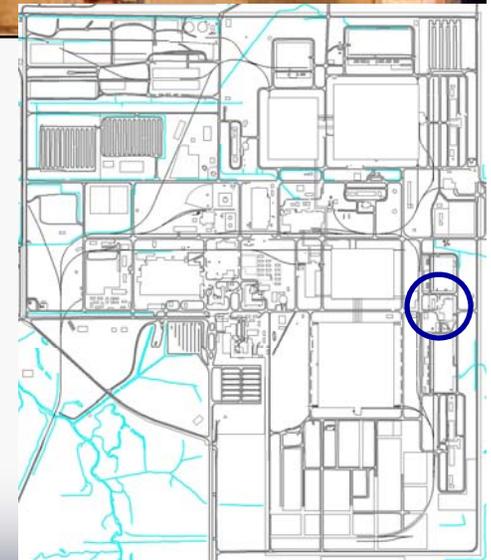
Work to prepare the building for D&D has begun using non-ARRA funds. This includes removal of loose material and debris and installation of construction lighting and power systems.

D&D work scheduled to start early FY 10 and will include the following:

- Stabilize internal systems
- Remove chemical hazards
- Remove/dispose of equipment and infrastructure
- Demolish south end annex of main production facility and two ancillary support facilities (C-340 D&E)
- Prepare complex (C-340-A, B, and C) for demolition
- Demolish facility



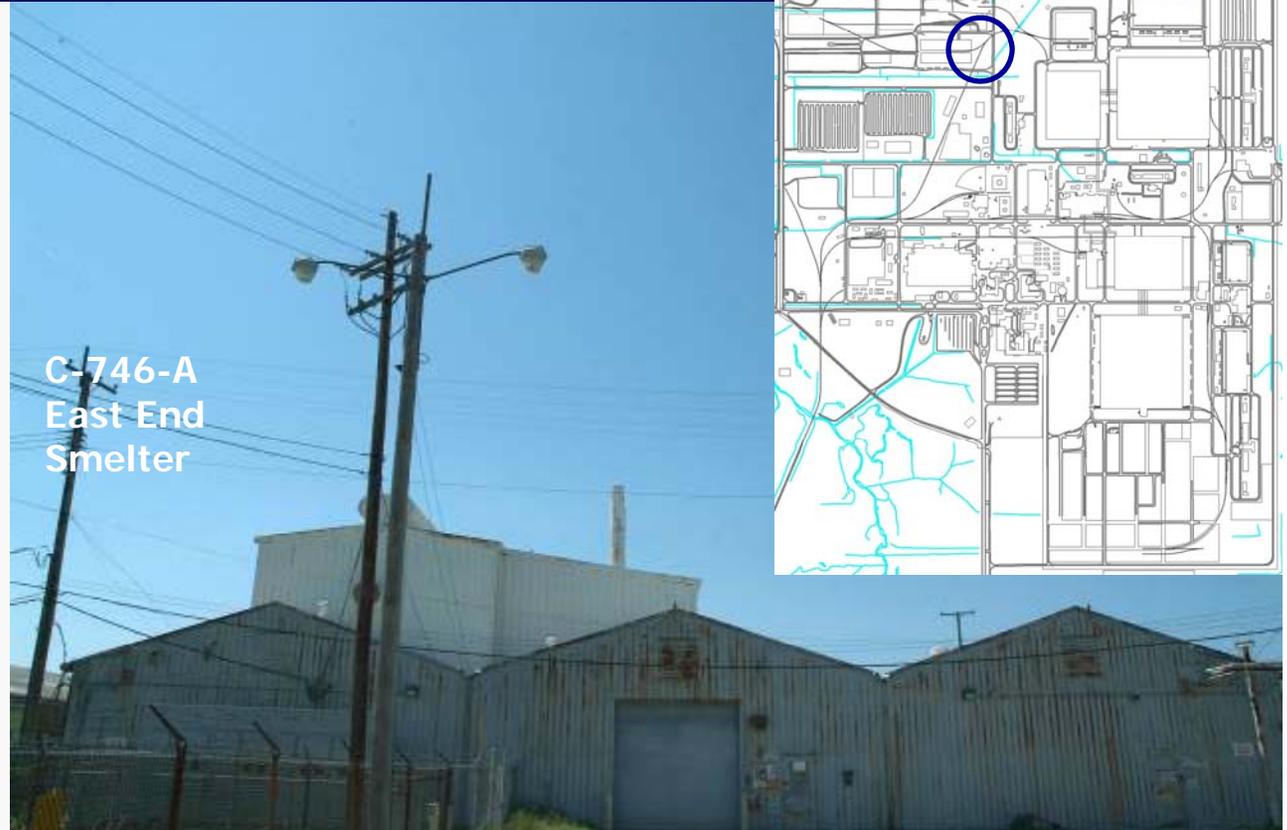
C-340 Metals Plant



## ARRA Projects – C-746-A East End Smelter

The first step is to unhook the building from the enrichment plant utilities grid (power, water, steam, etc.).

DOE crews will begin D&D work in early FY 10. This includes removal of loose material and debris and installing temporary power and lighting systems.



### D&D steps

- Remove and dispose of equipment
- Remove/dispose of infrastructure
- Demolish to slab

# Waste Removal



Between legacy wastes and items in DOE Material Storage Areas, the Paducah Site once stored more than 1,000,000 ft<sup>3</sup> of legacy waste materials. Just 30,000 ft<sup>3</sup> remains.

All wastes will be removed before September 30, 2009.





**DOE Portsmouth/Paducah Project Office**

# FY 2010

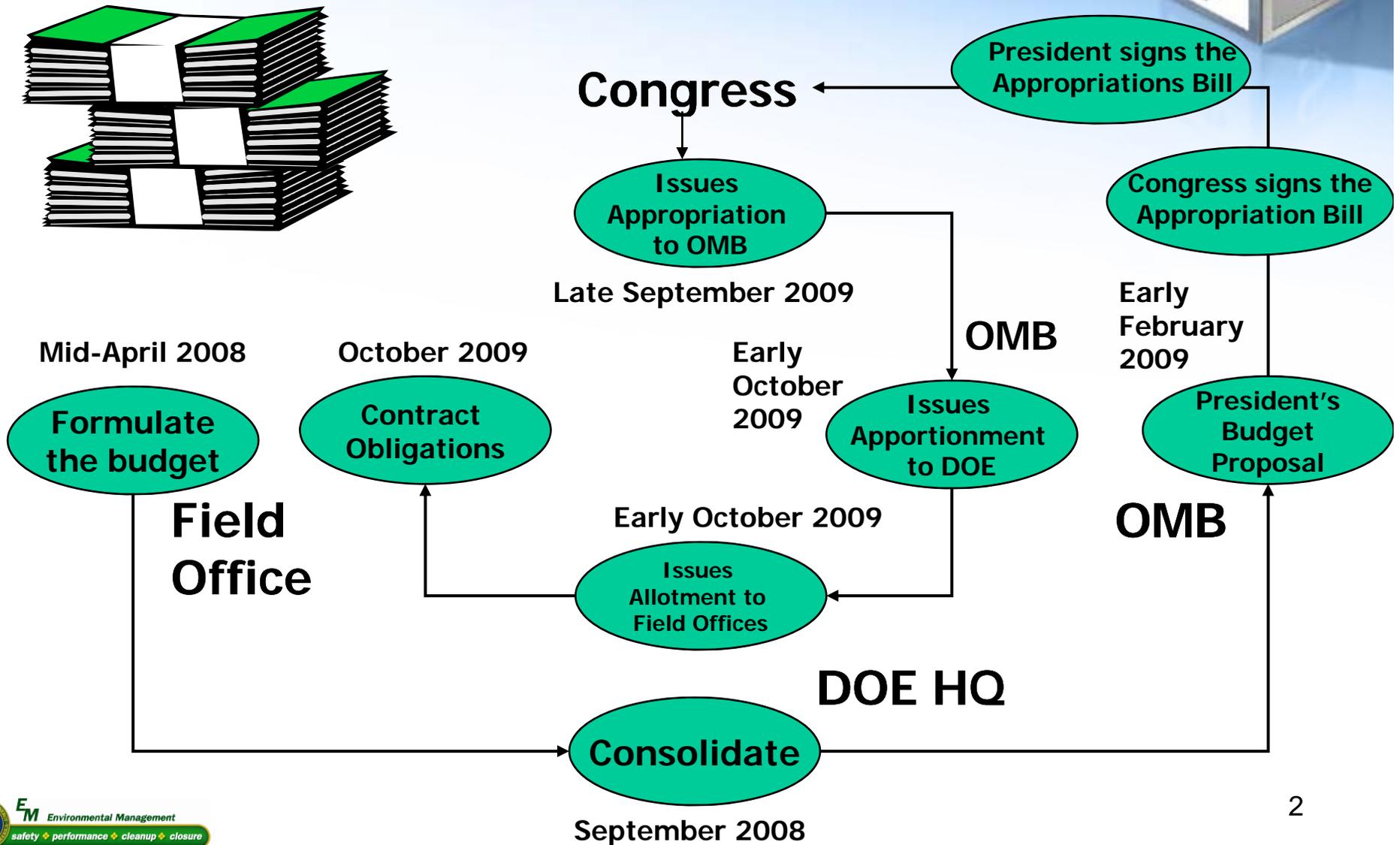
## DOE EM Budget Development

### Paducah Gaseous Diffusion Plant

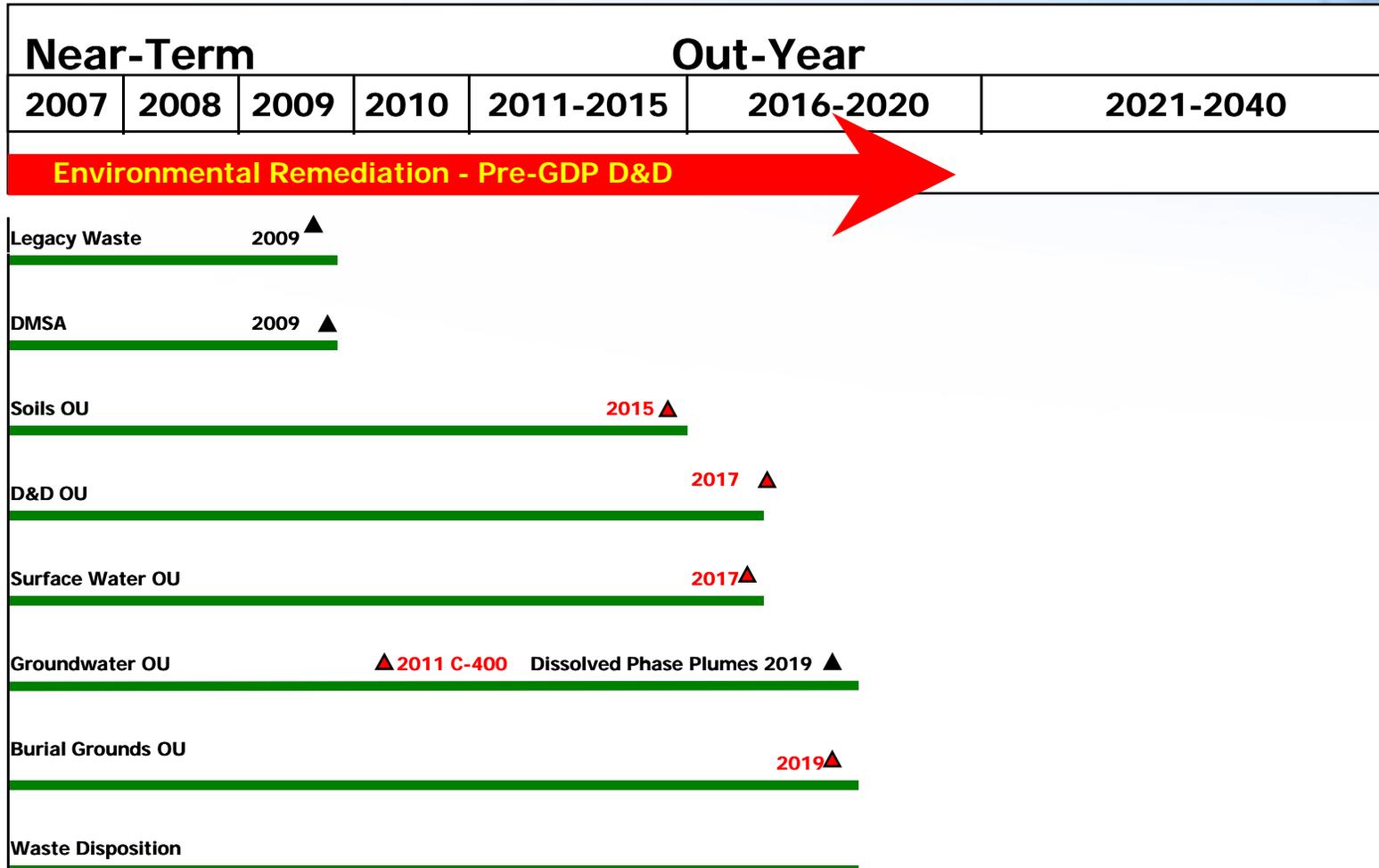
Reinhard Knerr



# FY 2010 Budget Process



# Paducah Cleanup Schedule



# Target Funding Levels



| PBS                                 | FY 10   | FY 11   | FY 12   | FY 13   | FY 14   |
|-------------------------------------|---------|---------|---------|---------|---------|
| PA-0011 - Uranium Enrichment (PCBs) | 2,257   | 2,390   | 2,300   |         |         |
| PA-0013 - Waste Management          | 9,283   | 8,267   | 7,195   |         |         |
| PA-0020 - Safeguards and Security   | 8,190   | 8,533   | 7,885   |         |         |
| PA-0040 - Cleanup and S&M           | 72,032  | 77,721  | 79,836  |         |         |
| PA-0102 – DOE Directs               | 1,529   | 3,206   | 3,206   |         |         |
| PA-0103 - CAB and AIP               | 2,529   | 2,483   | 2,483   |         |         |
| EM Cleanup                          | 95,820  | 102,600 | 102,905 |         |         |
| PA-0011X - DUF6                     | 48,909  | 33,992  | 34,639  |         |         |
| Total Projected Funding*            | 144,729 | 136,592 | 137,544 | 140,708 | 143,944 |

\*Does not include carry over

# FY2010 PBS Level Budget Request – Paducah



|                                                                             |        |               |
|-----------------------------------------------------------------------------|--------|---------------|
| PA-0013 - Waste Management                                                  | 9,283  |               |
| PA-0040 - Cleanup and S&M                                                   | 72,032 |               |
| EM Cleanup – Project Level Subtotal                                         |        | 81,315        |
| PA-0011 - Uranium Enrichment (PCBs)                                         | 2,257  |               |
| Includes PCB activities and miscellaneous facilities S&M                    |        |               |
| PA-0020 - Safeguards and Security                                           | 8,190  |               |
| Includes SST security oversight and contributions to USEC protective forces |        |               |
| PA-0102 - DOE Directs                                                       | 1,529  |               |
| FOIA requests, etc.                                                         |        |               |
| PA-0103 - CAB and AIP                                                       | 2,529  |               |
| Includes CAB budget and Agreements in Principal                             |        |               |
| EM Cleanup – Operations LOE Subtotal                                        |        | 14,505        |
| PA-0011X - DUF6                                                             | 48,909 | <u>48,909</u> |
| Total Projected Funding                                                     |        | 144,729       |

# FY 2010 Summary Level Scope/Budget Breakdown



## 1. IMMINENT THREATS

0

No activities at Paducah currently identified in this category

## 2. BASE OPERATIONS

89,732

Waste Operations

Surveillance and Maintenance

Security

DUF<sub>6</sub> Conversion Facility

PCB Activities

CAB and AIP

DOE Directs

# FY 2010 Summary Level Scope/Budget Breakdown



## 3. ENFORCEABLE COMMITMENTS

47,761

Federal Facility Agreement

C-400 Action

Burial Grounds

Surface Water Operable Unit (On-site)

C-410 D&D

Southwest Plume Investigation

Surface Soil Operable Unit

Site Treatment Plan

TRU Waste

TSCA FFCA Wastes

# FY 2010 Summary Level Scope/Budget Breakdown



## 4. REMAINING WORK

7,236

CERCLA Waste Disposal Evaluation

Low-Level Waste Disposal

Classified Waste Disposal

Groundwater Off-site Plume Action

C-340 D&D

Surface Water Operable Unit (Off-site)