



## PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

MINUTES OF THE THURSDAY, NOVEMBER 21, 2024, CAB BOARD MEETING • 5:30 PM.

**Location:** Emerging Technology Building, WKCTC, Paducah, Kentucky

**Citizens Advisory Board (CAB) Members Present:** Don Barger, Gaye Brewer, Ben Stinnett, Rodney Hill, Gaylon Grubbs, Clint Combs, Eric Butterbaugh, Joycelyn Lightfoot

**CAB Members Absent:** Myron Wessel, Riley Willett, Reese Henderson

**U.S. Department of Energy (DOE) and Contractors:** DOE: April Ladd, Buz Smith; FRNP: Bruce Ford; EHI Consultants: Hayly Wiggins; ETAS: Zachary Boyarski

**Liaisons:** Division of Waste Management: Brian Lainhart (TEAMS); Environmental Protection Agency: Victor Weeks (TEAMS); Kentucky Dept. of Energy and Environment: April Webb (TEAMS), Mary Evans, Bart Schaeffer (TEAMS), Sonja Smiley (TEAMS)

**Attendees:** Marshall Jenkins, Darla Bowen, Molly Thompson

**Facilitator:** Eric Roberts, EHI

Approved by Ben Stinnett, Board Chair

Signature on file

Ben Stinnett

**Roberts:**

We have a new public comment policy. Anyone who wants to make a public comment is limited to two minutes of oral comment. If they want to comment in writing, you can email them to zachary.boyerski@pppo.gov through 11/29/2024.

**Call to Order:** 5:32 pm Ben Stinnett, CAB Chair.

**Stinnett:** Welcome to all attendees. Thank you for being here tonight. I want to extend a special welcome to Joycelyn Lightfoot who is attending her first meeting as a board member.

Attendees introduced themselves.

**DOE comments provided by April Ladd:** I have some project updates to share. We have 176 converters segmented and 165 in storage out of 497. The Site Management Plan for fiscal year 2025 was sent out on the 13<sup>th</sup>, a couple of days before its regulatory due date of the 15<sup>th</sup>. Then, the Environmental Baseline Survey for the first parcel at Paducah was transmitted through the EPA regulators in Kentucky on November 8<sup>th</sup>. Today, we hosted a tour for Paducah Tilghman High School students who will be creating the Student Annual Site Environmental Report (ASER): Student Summary.

**Additional DOE comments provided by Buz Smith:** I want to thank our soon-to-be CAB members for attending tonight's meeting. We are pleased to have you here learning about the CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) process, so you have some good background knowledge.

Liaison Comments: none

Administrative Issues: none

**Presentation-Bruce Ford, Environmental Services Director, Four Rivers Nuclear Partnership**

CERCLA Federal Facility Agreement Overview

An abbreviated overview of the presentation (a full overview is available [here](#)):

*CERCLA and Superfund overview*

- Congress enacted CERCLA (Comprehensive Environmental Response Compensation and Liability Act) on **December 11, 1980**.
- Law established broad federal authority to respond to hazardous waste releases

- The program created a trust fund (Superfund) for the cleanup of abandoned hazardous waste sites.
- Ford explained CERCLA requires the evaluation of **nine** detailed criteria for cleanup alternatives:
  - **Two** threshold criteria: protection of human health/environment and regulatory compliance.
  - **Five** balancing criteria: effectiveness, implementability, and cost considerations.
  - **Two** modifying criteria: state and community acceptance.

*Federal Facility Agreement at Paducah*

- The FFA is a tri-party agreement established in **1998** between DOE, EPA Region 4, and Kentucky.
- DOE serves as the lead agency responsible for cleanup.
- EPA provides regulatory oversight with final dispute resolution authority.
- Kentucky ensures compliance with state regulations and RCRA requirements.
- The agreement requires monthly meetings between FFA managers from all three agencies.

*Administrative record requirements*

- CERCLA mandates the establishment of administrative record for all cleanup decisions.
- Record must contain all documents supporting selection of response actions.
- Documents are available through [Environmental Information Center](#) website.
- The public can access full documentation of the decision-making process and rationale.

*Public participation process*

- A 45-day public comment period is required for proposed cleanup plans.
- Public meetings must be held if requested during the comment period.
- Public comments must be addressed in the final decision documentation.
- CAB provides ongoing community input throughout the process.

Goal to prepare CAB for potential recommendation by **May 2025**

<b>Question/Comment:</b>	<b>Answer:</b>
<p><b>Brewer:</b> A Removal Action is a quicker response type action, right? If you find something that needs immediate action, it is the removal action because it is responsive.</p> <p><b>Evans:</b> Is the public comment period from the very start?</p>	<p><b>Ford:</b> Yes, a Removal Action is a quicker action followed by a longer-term, but more complete, Remedial Action.</p> <p><b>Ford:</b> Yes, once we publish a notice about the final Record of Decision, there are 45 days of public comment period,</p>

<p><b>Butterbaugh:</b> What if the budget gets cut?</p> <p><b>Barger:</b> In the section on the administrative record, it says, "The President shall base." How does the President fit into this? He doesn't actually make decisions in this area, does he?</p> <p><b>Stinnett:</b> When you speak about public participation, is that strictly local, regional, or the whole public?</p> <p><b>Roberts:</b> What is the time frame from scoping to ROD? Several months to years, correct?</p> <p><b>Evans:</b> Are all projects at the site subject to CERCLA?</p>	<p>requirements driven by CERCLA and our FFA.</p> <p><b>Ford:</b> The federal facility agreement has provisions for potential budget cuts. There are budget letters DOE sends to EPA in Kentucky every year that talk about priorities. The budget for environmental management DOE's cleanup comes from Congress each year which is conveyed to EPA and Kentucky. If there are issues with funding or budget limitations, then we put it in a letter saying there are budget impacts.</p> <p><b>Ford:</b> This is verbiage from EPA guidance. The regulations read differently, depending on which agency wrote them. One agency might use the term "Administrator" and another "President." Essentially, it means CERCLA requires the establishment of administrative records (ARs) upon which the Federal Facility Agreement (FFA) Project Managers shall base the selection of a response action.</p> <p><b>Ford:</b> We must publish a notice of any Record of Decision in a local, well-circulated newspaper, such as The Paducah Sun, but anyone can comment on these Record of Decision (RODs) once they are published, whether they are local to the area or not.</p> <p><b>Ladd:</b> Yes, any person or organization can comment on these RODS from anywhere, and we will consider those comments.</p> <p><b>Ford:</b> We always try to accelerate to the best possible extent.</p> <p><b>Ford:</b> No, there are projects going on at the site that are not CERCLA projects, such as the converters being crushed and put into boxes for long-term storage, maintenance</p>
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	of roads and buildings, right-sizing the utilities, etc.
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**Ladd:** The next step for the CAB is, do you want the next step as an ad hoc subcommittee or continue with the CAB as a whole? We would need several sessions to learn the information and work on a recommendation.

**Roberts:** To prepare the CAB for a recommendation, we must ensure you are thoroughly educated on all topics related to potential waste disposal. Beginning in January, we have generally mapped out one-hour sessions. Do you want to meet on an ad hoc subcommittee level or with the full CAB in Educational Sessions to learn more about the CERCLA requirements and determine potential waste disposal options?

**Stinnett:** The subcommittee would do a deeper dive, but the full CAB board would still vote on the recommendation, correct?

**Roberts:** Yes, the full board votes on any recommendation.

**Butterbaugh:** Would that be adding two more meetings a month or just two meetings a month?

**Roberts:** That depends on how much detail the group wants.

**Hill:** If you say you want to be on a subcommittee, we would commit to attending every meeting, correct? I prefer to attend if I can, but if I cannot, that is okay.

**Barger:** I would like to ensure I get all the information for any meeting prior to the meeting so I can study and prepare.

**Roberts:** Hayly will ensure you get information at least one day before the meeting.

**Stinnett:** Would the group prefer making these full board educational sessions? *The group indicated affirmative.*

**Roberts:** We will start putting schedules together with April, her team, and the board and try to get some dates for you soon.

**Weeks:** DOE made some commitments several years ago to create documentation and exhibits to help keep the CAB informed about the potential waste cell process.

**Roberts:** Are there any public comments? <none> If anyone has public comments, you can email Buz Smith within the next week at (270) 441-6821 or [zachary.boyarski@pppo.gov](mailto:zachary.boyarski@pppo.gov) and we will add them as attachments to the minutes.

**Roberts:** We would like to present Don Barger with the gavel and block he has used for his years as CAB Board Chair. Don has spent 23,000 miles on the road to various

meetings and sites, read documents, and helped with all our meetings and recommendations. Thank you for your years of service to the Citizens Advisory Board.

**Barger:** Learning about the Paducah Site, its history, and cleanup has been a tremendous opportunity. I thank you for the chance to serve.

Stinnett adjourned the meeting at 7:09 pm.

## **Appendices to the Minutes for the November 21, 2024, Paducah CAB Meeting**

# **Appendix 1**

## Detailed Notes from Presentation



# CAB Meeting

**Date:** November 21, 2024

**Duration:** 1:39:16

**Participants:** April Ladd, Buz Smith, Eric Roberts, Ben Stinnett, Gaye Brewer, Don Barger, Rodney Hill, Gaylon Grubbs, Joycelyn Lightfoot, Eric Butterbaugh, Clint Combs, Marshall Jenkins, Darla Bowen, Molly Thompson, Zachary Boyarski, Mary Evans, April Webb (TEAMS) Victor Weeks (TEAMS), Sonja A Smiley (TEAMS), Brian Lainhart (TEAMS), Bart Shaeffer (TEAMS), Julie Galloway (TEAMS), Hayly Wiggins

## Action Items

- [ ] Hayly Wiggins - **Create PDF binder system for meeting materials** Create a comprehensive PDF binder system to compile and share educational session materials, discussions, and summaries with CAB members
- [ ] Eric Roberts - EHI - **Pull previous DOE commitment list** Pull list of DOE's previous commitments made in response to original CAB comments about waste disposal, as referenced by Victor Weeks
- [ ] Eric Roberts - EHI - **Schedule educational sessions** Coordinate with Buzz and April to set up schedule for waste disposal educational sessions starting in January

## Overview

- Team reviewed CERCLA process and environmental regulations to prepare for major 2029 cleanup decisions
- **176** of **497** converters have been segmented, with **165** in storage
- Site Management Plan for fiscal year **25** was submitted on **November 13th**, ahead of the **November 15th** deadline
- Environmental baseline survey for first Paducah parcel transmitted to EPA and Kentucky on **November 8th**
- The board agreed to hold open educational sessions starting January **2024** to prepare for potential waste disposal recommendations by **April/May 2024**

## Project status updates

- **176** converters segmented out of **497** total units
- **165** converters are now in storage
- Site management plan for FY **25** submitted **2** days ahead of regulatory deadline
- Environmental baseline survey for first Paducah parcel sent to regulators on **November 8th**
- ACER student tour conducted on **November 21st**

## Overview of environmental regulations

- Multiple regulations impact site activities:
  - Atomic Energy Act
  - Clean Water Act
  - Clean Air Act
  - Toxic Substances Control Act (TOSCA)

*Chartered as an EM Site Specific Advisory Board under the Federal Advisory Committee Act*

- Resource Conservation Recovery Act (RCRA)
- CERCLA (Superfund) was enacted in **December 1980** under President Carter
- Super Fund Amendments and Reauthorization Act (SARA) added in **1986**

#### **CERCLA process and requirements**

- Two types of response actions:
  - Remedial actions: Larger, long-term cleanups
  - Removal actions: Shorter-term, urgent responses
- Nine criteria are required for detailed analysis:
  - Threshold criteria: Protection of human health and environmental compliance
  - Balancing criteria: Effectiveness, implementability, and cost
  - Modifying criteria: State and community acceptance
- The public comment period is **45** days
- Record of Decision due within **30** days of public comment period closing
- Fieldwork must start within **15** months of decision and continue without interruption

#### **Federal Facility Agreement roles**

- DOE serves as lead agency responsible for cleanup
- EPA provides regulatory oversight with final dispute resolution authority
- Kentucky provides regulatory oversight and RCRA compliance verification
- FFA managers meet monthly:
  - April Ladd (DOE)
  - Victor Weeks (EPA)
  - April Webb (Kentucky)

#### **Public participation in cleanup decisions**

- A public comment period is required for **45** days on proposed plans
- Local newspaper notifications required for public notices
- Administrative record maintained and publicly accessible online
- CAB provides ongoing community input throughout the process
- Public meetings held when requested during comment periods
- All documentation available through the Environmental Information Center website [EIC](#)



**Chair**  
Ben Stinnett

**Vice-Chair**  
Gaye Brewer

**Past Chair**  
Don Barger

**Board Members**  
Eric Butterbaugh  
Clint Combs  
Gaylon Grubbs  
Reese Henderson  
Rodney Hill  
Joycelyn Lightfoot  
Myron Wessell  
Riley Willett

April Ladd  
*DOE DDFO*

Buz Smith  
*DOE Federal Coordinator*

**Board Liaisons**

April Webb  
*Division of Waste  
Management*

Victor Weeks  
*Environmental Protection Agency*

Mike Hardin  
*Fish and Wildlife Resources*

Stephanie Brock  
*Radiation Control Branch*

**Support Services**  
EHI Consultants, Inc.  
Emerging Technology Center  
4810 Alben Barkley Dr.  
Paducah, KY 42001  
Phone 270.554.3004  
[www.energy.gov/pppo/pgdp-cab](http://www.energy.gov/pppo/pgdp-cab)  
[info@pgdpcab.org](mailto:info@pgdpcab.org)

November 21, 2024

## November 2024 Citizens Advisory Board Meeting Agenda

### 5:30 pm

Call to order, introductions

### DOE Comments

### Federal Coordinator Comments

### Liaison Comments

### Administrative Issues

### Presentations

CERCLA Federal Facility Agreement Overview

### Final Comments

### Adjourn

[6450-01-P]

**DEPARTMENT OF ENERGY**

**Environmental Management Site-Specific Advisory Board, Paducah**

**AGENCY:** Office of Environmental Management, Department of Energy.

**ACTION:** Notice of open meeting.

**SUMMARY:** This notice announces a meeting of the Environmental Management Site-Specific Advisory Board (EM SSAB), Paducah. The Federal Advisory Committee Act requires that public notice of this meeting be announced in the *Federal Register*.

**DATES:** Thursday, November 21, 2024; 5:30 p.m. – 7 p.m. CDT

**ADDRESSES:** West Kentucky Community and Technical College, Emerging Technology Center, Room 215, 5100 Alben Barkley Drive, Paducah, Kentucky 42001.

**FOR FURTHER INFORMATION CONTACT:** Robert “Buz” Smith, Federal Coordinator, by Phone: (270) 441-6821 or E-mail: *Robert.Smith@pppo.gov*.

**SUPPLEMENTARY INFORMATION:**

*Purpose of the Board:* The purpose of the Board is to provide advice and recommendations concerning the following EM site-specific issues: clean-up activities and environmental restoration; waste and nuclear materials management and disposition; excess facilities; future land use and long-term stewardship. The Board may also be asked to provide advice and recommendations on any EM program components.

*Tentative Agenda:*

- Administrative Activities
- Public Comment Period

*Public Participation:* The meeting is open to the public. The EM SSAB, Paducah will make every effort to accommodate persons with physical disabilities or special needs. If you require special accommodations due to a disability, please contact Robert “Buz” Smith in advance of the meeting. The DOE leadership of the EM SSAB, Paducah will hear oral public comments during the meeting. A public comment period up to 15 minutes will take place at the end of the

agenda. Individual oral comments are to be limited to two minutes per speaker. Written statements may be filed either before or after the meeting. Written comments submitted by 5 p.m. CDT on Friday, November 29, 2024 will be included in the minutes. Please submit written comments to Zachery Boyarski @Zachary.Boyarski@pppo.gov> with “Public Comment” in the subject line. The Deputy Designated Federal Officer is empowered to conduct the meeting in a fashion that will facilitate the orderly conduct of business.

*Minutes:* Minutes will be available by writing or calling Eric Roberts, Board Support Manager, Emerging Technology Center, Room 221, 4810 Alben Barkley Drive, Paducah, KY 42001; Phone: (270) 554-3004. Minutes will also be available at the following website: <https://www.energy.gov/pppo/pgdp-cab/listings/meeting-materials>.

**Signing Authority:** This document of the Department of Energy was signed on May , 2024, by David Borak, Deputy Committee Management Officer, pursuant to delegated authority from the Secretary of Energy. That document with the original signature and date is maintained by DOE. For administrative purposes only, and in compliance with requirements of the Office of the Federal Register, the undersigned DOE Federal Register Liaison Officer has been authorized to sign and submit the document in electronic format for publication, as an official document of the Department of Energy. This administrative process in no way alters the legal effect of this document upon publication in the *Federal Register*.

Signed in Washington, DC on May , 2024.

**David Borak,**  
*Deputy Committee Management Officer.*

## ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

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Hanford Idaho Nevada Northern New Mexico  
Oak Ridge Paducah Portsmouth Savannah River

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September 19, 2024

Kelly K. Snyder  
Designated Federal Officer  
U.S. Department of Energy (DOE) Office of Environmental Management (EM)  
1000 Independence Avenue, SW  
Washington, DC 20585

Dear Ms. Snyder:

**Justification:** As DOE Headquarters endeavors to update its website, the EM Site Specific Advisory Board (SSAB) has been requested to provide input for the EM SSAB website and its content.

In order to educate and inform future board members, interested community groups, and the public in general, we want to maintain a detailed archive of board activities that is easily accessible from the website.

**Recommendation:** The board recommends that the EM SSAB website maintain and keep documents related to board activities in perpetuity. The documents shall be in a searchable archival online location available to the public. These documents include, but are not limited to, recommendations, responses, and minutes.

### Who We Are

*The EM SSAB is the DOE EM's most effective vehicle for fostering two-way communication between DOE EM and the communities it serves. The EM program is the world's largest environmental cleanup program, and the EM SSAB its only citizen advisory board. For more than 20 years, the volunteer citizens of the EM SSAB have partnered with EM officials at both the local and national levels to ensure that the public has a meaningful voice in cleanup decisions.*

*Public participation is required/recommended as part of a number of environmental regulations. It is also good business practice, resulting in better decisions that often result in improved cleanup. Since 1994, EM SSAB members have volunteered thousands of hours of their time and submitted to EM officials over 1700 recommendations, 85% of which have been fully or partially implemented, resulting in improved cleanup decisions.*

*The EM SSAB comprises approximately 200 people from communities in Georgia, Idaho, Kentucky, Nevada, New Mexico, Ohio, Oregon, South Carolina, Tennessee and Washington. The Board is cumulatively representative of a stakeholder population totaling millions of people who are affected by generator sites, transportation routes and disposal sites. As we move forward, the EM SSAB welcomes the opportunity to highlight the value of this unique volunteer board and discuss its priorities during the months and years ahead.*



Susan Coleman, Chair  
Hanford Advisory Board



Teri Ehresman, Chair  
Idaho Cleanup Project CAB



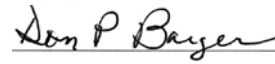
Anthony Graham, Chair  
Nevada SSAB



Patricio Pacheco, Chair  
Northern New Mexico CAB



Amy Jones, Chair  
Oak Ridge SSAB



Don Barger, Chair  
Paducah CAB



Jody Crabtree, Chair  
Portsmouth SSAB



Phyllis Britt, Chair  
Savannah River Site CAB



## Department of Energy

Washington, DC 20585

November 14, 2024

Mr. Ben Stinnett  
Chair  
Paducah Citizens Advisory Board  
P.O. Box 8208  
Paducah, Kentucky 42002

Dear Mr. Stinnett:

I have received the recommendation dated September 19, 2024, from the Environmental Management Site-Specific Advisory Board (EM SSAB) regarding the accessibility of documents related to board activities, including recommendations, responses, and meeting minutes. I would like to express my appreciation to you and the board for your continued dedication and commitment to ensuring transparency and public access to these important materials.

The Department of Energy's Office of Environmental Management (DOE EM) supports the EM SSAB's recommendation to maintain these documents in a searchable, online archival format, ensuring their availability to the public. DOE EM recognizes the value this will bring in promoting accountability, historical reference, and accessibility for all stakeholders. DOE EM will work with the webmaster to determine how best the EM SSAB recommendation can be implemented.

If you have any questions, I can be reached at (702) 918-6715 or [kelly.snyder@em.doe.gov](mailto:kelly.snyder@em.doe.gov).

Sincerely,

A handwritten signature in cursive script that reads "Kelly K. Snyder".

Kelly K. Snyder  
Designated Federal Officer

cc: April Ladd, PAD CAB DDFO





Portsmouth Paducah  
Project Office

# CERCLA Federal Facility Agreement Overview

Bruce Ford  
Environmental Services Director  
Four Rivers Nuclear Partnership, LLC  
November 21, 2024





# Many Regulations Impact Paducah Site Activities

- ▶ CERCLA
- ▶ RCRA
  - ▶ Subtitle C
  - ▶ Subtitle D
- ▶ TSCA
- ▶ CAA
- ▶ CWA
- ▶ AEA



# Many Regulations Impact Paducah Site Activities

- ▶ CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
- ▶ RCRA – Resource Conservation and Recovery Act
  - ▶ Subtitle C – Hazardous Waste
  - ▶ Subtitle D – Solid Waste
- ▶ TSCA – Toxic Substances Control Act
- ▶ CAA – Clean Air Act
- ▶ CWA – Clean Water Act
- ▶ AEA – Atomic Energy Act



# What is CERCLA?

- ▶ The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), also known as Superfund, was enacted by Congress in December 1980.
- ▶ Provided broad Federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment.
- ▶ Established prohibitions and requirements concerning closed and abandoned hazardous waste sites.
- ▶ Provided for liability of persons responsible for releases of hazardous waste at these sites.
- ▶ Established a trust fund to provide for cleanup when no responsible party could be identified.
- ▶ Enabled revision of the National Contingency Plan (NCP), which established the National Priorities List (NPL).



## What is CERCLA? (continued)

- ▶ Amended by the Superfund Amendments and Reauthorization Act (SARA) in October 1986.
  - ▶ Stressed the importance of permanent remedies and innovative treatment technologies in cleaning up hazardous waste sites;
  - ▶ Required Superfund actions to consider the standards and requirements found in other State and Federal environmental laws and regulations;
  - ▶ Provided new enforcement authorities and settlement tools;
  - ▶ Increased State involvement in every phase of the Superfund program;
  - ▶ Increased the focus on human health problems posed by hazardous waste sites;
  - ▶ Encouraged greater citizen participation in making decisions on how sites should be cleaned up; and
  - ▶ Increased the size of the trust fund.

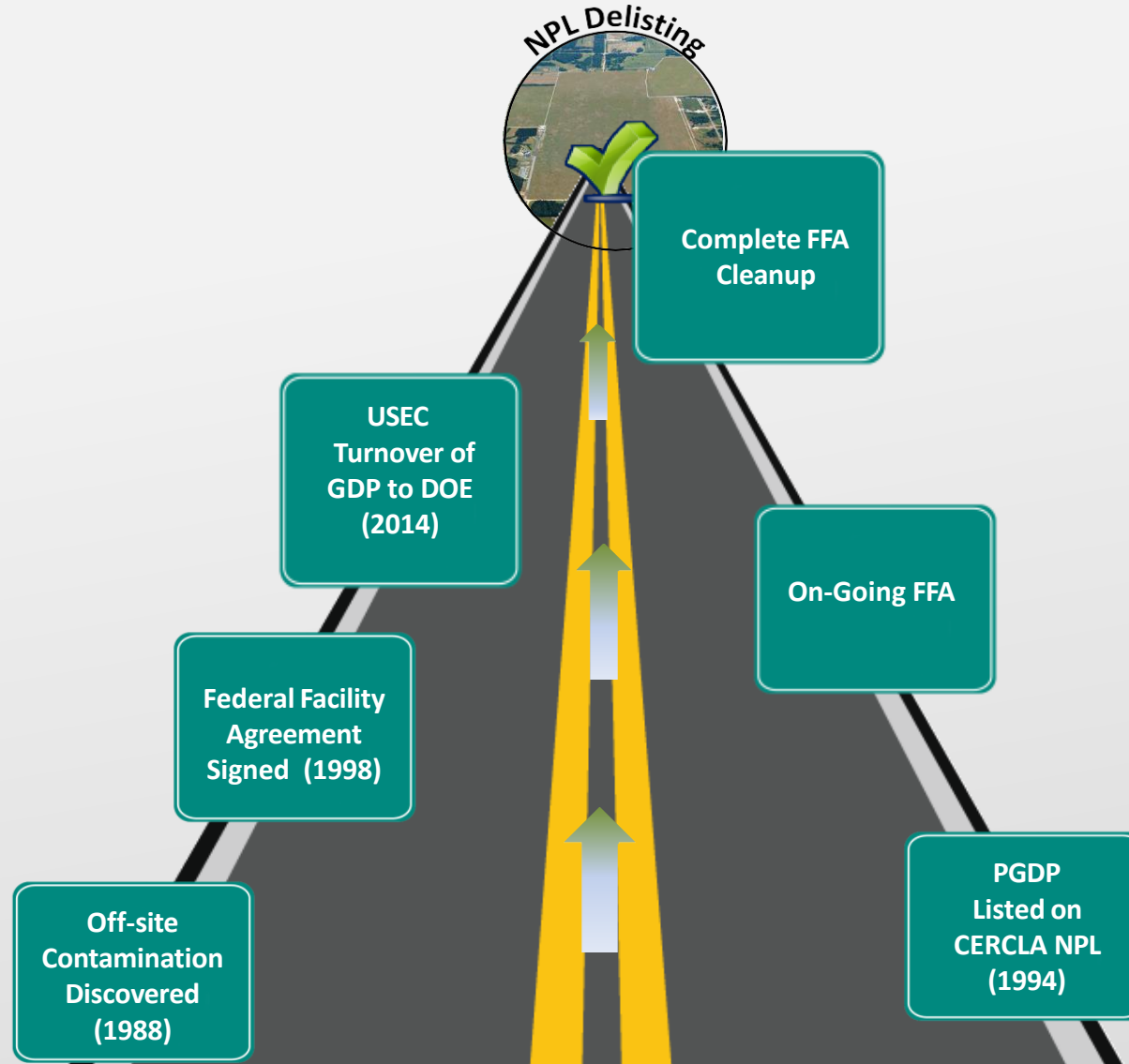


# Why Do We Have An FFA?

- ▶ In 1994, the PGDP was placed on the CERCLA National Priorities List (NPL).
  - ▶ Federal Facilities on the NPL are required to enter into Interagency Agreements (FFA) with EPA.
- ▶ In 1998, DOE entered into a Federal Facility Agreement (FFA) with EPA and Kentucky.
  - ▶ DOE – Lead Agency
  - ▶ EPA – Regulatory oversight (e.g., document review and approval), and final dispute resolution authority.
  - ▶ Kentucky – Regulatory oversight (e.g., document review and approval) and ensure compliance with the Resource and Conservation and Recovery Act (RCRA) corrective action requirements.



# CERCLA and the Paducah Federal Facility Agreement





# FFA – Applicability & Scope

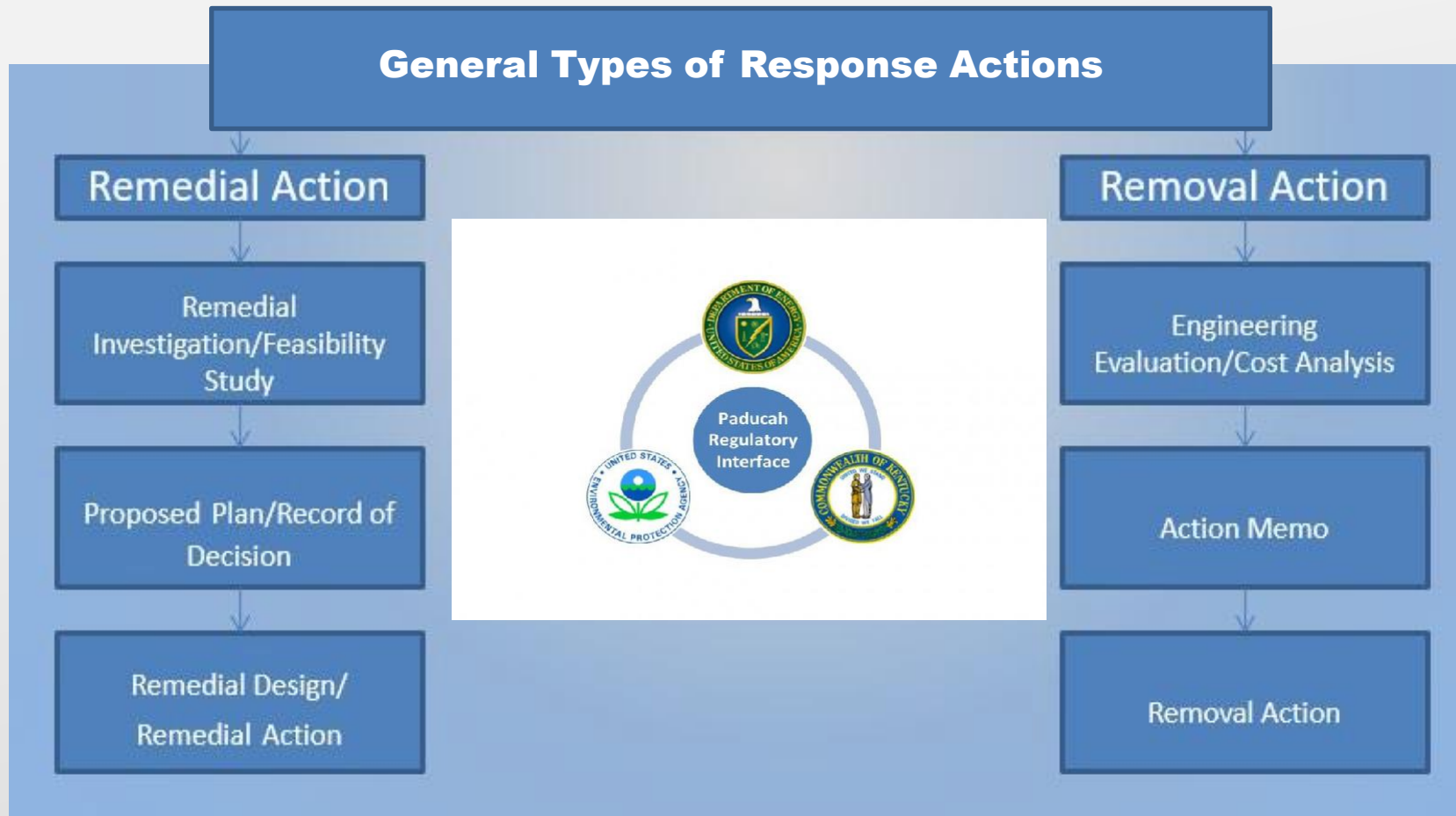
- ▶ The requirements of the FFA/CERCLA are applicable to:
  - ▶ Areas with potential or known releases of hazardous substances.
- ▶ The scope of CERCLA hazardous substances is very broad and includes, but is not limited to, all RCRA hazardous waste constituents and radionuclides.
- ▶ Examples of CERCLA hazardous substances present at the Paducah Site include:
  - ▶ Trichloroethylene (TCE);
  - ▶ Polychlorinated biphenyls (PCBs);
  - ▶ Uranium and Technetium-99 (Tc-99);
  - ▶ Heavy Metals (e.g., lead, chromium, mercury); and
  - ▶ Asbestos.





# Types Of CERCLA Response Actions

Note: The below removal action steps represent a Non-Time-Critical Removal Action, but a removal action can also consist of Emergency or Time-Critical Removal Actions depending on urgency.





# Types Of CERCLA Response Actions

## ▶ **Remedial Actions:**

- ▶ Usually, long-term response actions intended to permanently and significantly reduce risk.
- ▶ Can be interim actions but are followed up by final actions.
- ▶ Examples of remedial actions include capping landfills, groundwater treatment systems, excavation/disposal of contaminated soils.

## ▶ **Removal Actions:**

- ▶ Usually short-term in duration and lower-cost than remedial actions.
- ▶ Greater sense of urgency to address risk than remedial actions.
- ▶ Not intended to replace nor be inconsistent with the final remedial action.
- ▶ Examples include providing drinking water to residents, cleanout and sealing of sump areas, posting/fencing, demolition of contaminated facilities.

## ▶ **Three Types of Removals:**

- ▶ Emergency (immediate threat and planning period < six months)
- ▶ Time-Critical (planning period < six months)
- ▶ Non-Time-Critical (planning period > six months)
- ▶ The FFA specifies certain documentation and scheduling requirements for each particular type of removal action.



# CERCLA 9 Criteria for Detailed Analysis of Alternatives

## THRESHOLD CRITERIA

**Overall protection of Human Health and the Environment**

- How alternative provides protection of Human Health and Environment

**Compliance with ARARs**

- Chemical-specific
- Action-specific
- Location-specific

## BALANCING CRITERIA

**Long-term effectiveness and permanence**

- Magnitude of residual risk
- Adequacy and reliability of controls

**Reduction of Toxicity, Mobility, or Volume through treatment**

- Treatment process used and materials treated
- Volume of materials destroyed or treated
- Degree of expected reductions
- Degree to which treatment is irreversible
- Type and quantity of residuals remaining

**Short-term effectiveness**

- Protection of community during remediation
- Protection of workers during remediation
- Environmental impacts
- Time until RA objectives are achieved

**Implementability**

- Ability to construct and operate technology
- Reliability of technology
- Ease of understanding RA, if necessary
- Ability to monitor effectiveness of remedy
- Ability to coordinate and Obtain Approvals from other agencies
- Availability of services and materials

**Cost**

- Capital
- Operating and maintenance
- Present worth

## MODIFYING CRITERIA

**State Support Agency Acceptance\***

**Community Acceptance\***

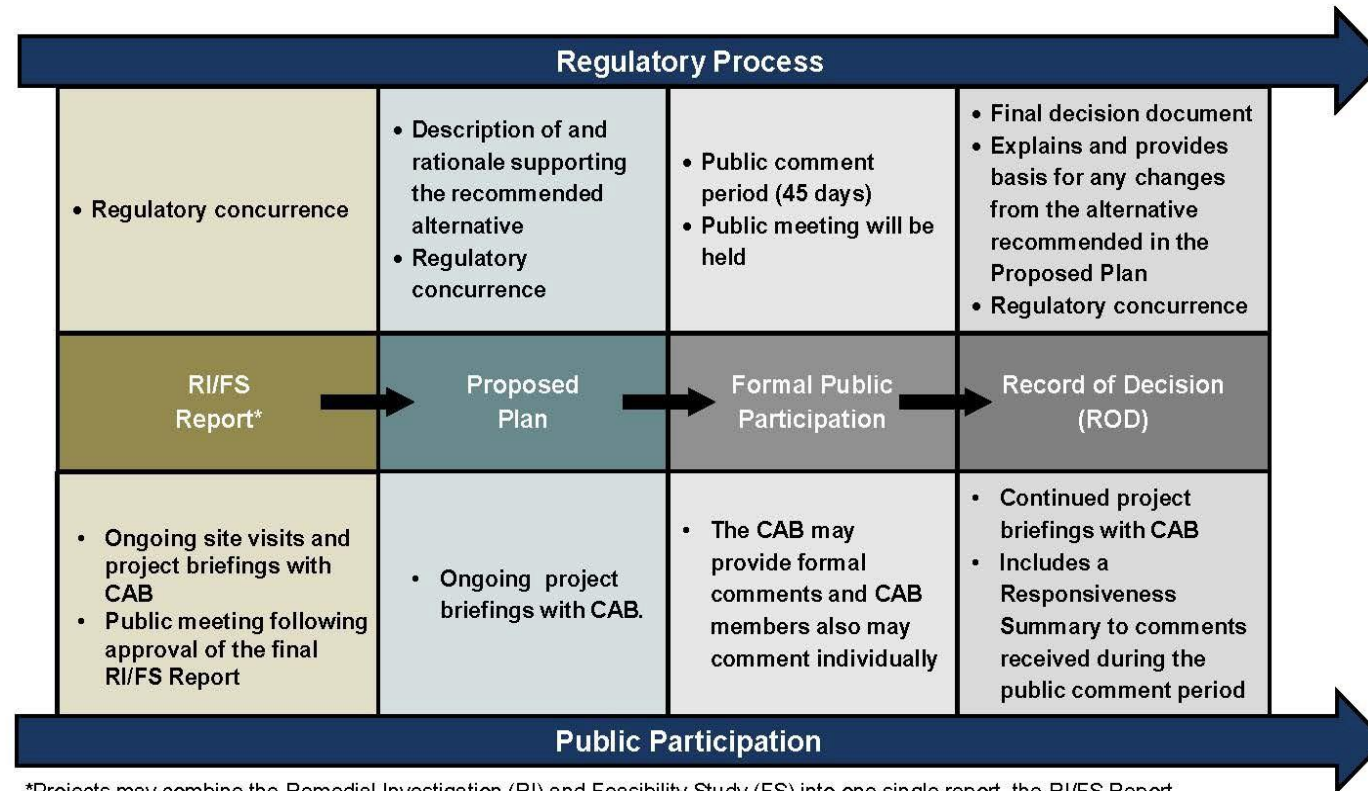
\* The assessments of these criteria are generally not completed until after public comment on RI/FS report and the proposed plan is received.



# CERCLA Remedial Action Process



## CERCLA Remedial Action Process



\*Projects may combine the Remedial Investigation (RI) and Feasibility Study (FS) into one single report, the RI/FS Report.



# Key Schedule Requirements

- ▶ Public comment periods (30 days under RCRA, but 45 days under CERCLA).
- ▶ Consultation with the regulatory agencies is required within 10 days of close of public comment period.
- ▶ The Record of Decision (ROD) is due to the regulators within 30 days of close of public comment, provided no significant public comments are received.
- ▶ Notice of the final ROD shall be published by DOE, with regulator concurrence, prior to start of work.
- ▶ Work must start within 15 months of ROD signature.



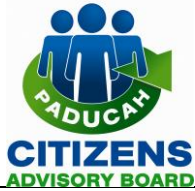
# Importance of the Administrative Record

- ▶ CERCLA requires the establishment of administrative records (ARs) upon which the President shall base the selection of a response action.
- ▶ The AR contains those documents which form the basis for selection of a response action. Judicial review of any issue concerning the adequacy of the response action is limited to the AR contents.
- ▶ The AR acts as a vehicle for public participation in selecting a response action.
- ▶ The AR for the Paducah Site can be found in the Environmental Information Center (EIC) at <https://eic.pad.pppo.gov>.



# FFA Project Managers – Points Of Contact

- ▶ FFA requires DOE, EPA, and Kentucky to designate certain individuals as the FFA Project Managers for implementation of the Agreement.
  - ▶ DOE – April Ladd
  - ▶ EPA – Victor Weeks
  - ▶ Kentucky – April Webb



# PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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## Paducah Gaseous Diffusion Plant Citizens Advisory Board Executive Committee Meeting Summary November 18, 2024

*The Citizens Advisory Board (CAB) Executive Committee met virtually (TEAMS)  
on Monday, November 18, 2024, at 2:30 p.m.*

**Board Members present:** Don Barger, Ben Stinnett, Rodney Hill, Gaye Brewer, Myron Wessel (TEAMS)

**U.S. Department of Energy (DOE) and related employees:** Buz Smith, April Ladd (TEAMS), DOE; Zach Boyarski, ETAS; Eric Roberts and Hayly Wiggins, EHI.

**Ladd** shared DOE awarded the Portsmouth Paducah Project Office Operations and Site Mission Support Contract to Mission Conversion Services Alliance LLC (MCSA). Work to be performed under the new contract will include DUF6 as well as cylinder management/operations and mission support such as site emergency management program, utilities operations, fire services, protective force, nuclear material control, and accountability, which were previously handled under alternate contractors on site. They will be the primary tenant on-site.

**Barger** asked if the transition would be seamless, where people come in one day working for one company and the next day work for a different company, or if there is a period where people have to reapply for jobs.

**Ladd** answered that everyone must apply for the new contractor's positions. The goal is all current employees will remain employed at the site, but under the new contractor. DOE will be reviewing its transition plan. Everyone at the site will have some sort of transition to work through, and the site dynamic will change.

**Smith** informed the subcommittee another potential company visited the site to view the potential property transfer area. Interest is growing in potential transfer of property and Paducah as a whole.

**Roberts** asked for feedback on the October Educational Session. Members said the meeting was informative and educational.

**Roberts** informed the Executive Subcommittee the December meeting will take place on December 11 instead of December 10 due to scheduling conflicts.

**Roberts** said the November board meeting will be on Thursday, November 21. This meeting will continue with discussions and education on the CERCLA process and waste disposal alternatives. The board will decide if they want to continue as a whole or break off into an ad hoc subcommittee to craft the recommendation, in hopes the recommendation is ready in May of 2025. The CAB meeting on January 16, 2025, will discuss the ASER and Environmental Monitoring. February's meeting will discuss the Federal Life Cycle and Budget & Funding. Additional waste cell discussions can be added if needed.

**Roberts** informed the committee Reese Henderson respectfully declined the offer to join the Executive Subcommittee during Billy Bob Clark's resignation due to medical treatment. He has a class during the time the Executive Subcommittee meets.

**Roberts** adjourned the meeting at 3:55 p.m.