



U.S. Nuclear Waste Technical Review Board

**NWTRB**  
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# U.S. Nuclear Waste Technical Review Board

Presented to:

**Winter 2022 Board Meeting**

Presented By:

**Dr. Jean M. Bahr, Chair**

# Board Members

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- ❖ **Jean M. Bahr, Ph.D., Chair** – University of Wisconsin, Madison
- ❖ **Steven M. Becker, Ph.D.** – Old Dominion University
- ❖ **Allen G. Croff, Graduate Nuc. Engr. Degree, MBA** – Vanderbilt University
- ❖ **Tissa H. Illangasekare, Ph.D., P.E.** – Colorado School of Mines
- ❖ **Kenneth Lee Peddicord, Ph.D. , P.E.** – Texas A&M University
- ❖ **Paul J. Turinsky, Ph.D., Deputy Chair** – North Carolina State University
- ❖ (Other positions vacant)



# About the Board

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The U.S. Nuclear Waste Technical Review Board (Board) was established by Congress as an independent federal agency in the 1987 amendments to the Nuclear Waste Policy Act (NWPA).



# Board Member Appointment



NATIONAL ACADEMY  
OF SCIENCES



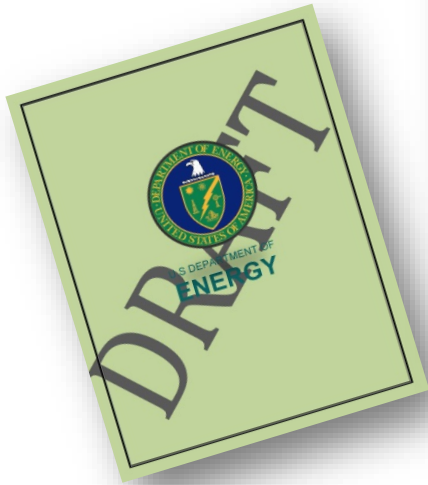
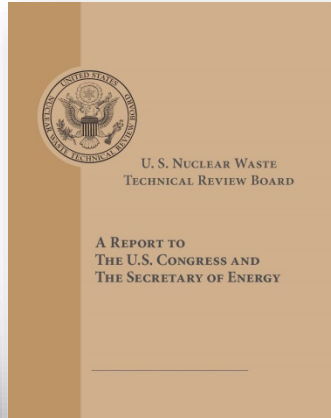
- At full strength, the Board is composed of eleven members
- Board members are nominated by the National Academy of Sciences and appointed by the President to four-year terms
- Terms are staggered, and Board members may continue to serve until they are reappointed or replaced



# About the Board

## The Board:

- Conducts independent and objective peer review of DOE activities
- Reports its findings, conclusions, and recommendations to the U.S. Congress and the Secretary of Energy
- By law, has access to draft DOE documents—according to the Legislative History of the NWPAA, so that Board recommendations can be made during decision-making, not after the fact
- Provides congressional testimony at the invitation of Congress



# About the Board (cont.)



- Holds public meetings each year, normally in different locations in the United States—meetings are webcast
- Provides technical and scientific comments in letters or reports to DOE following public meetings
- Makes all official documents and information (meeting transcripts, archived webcasts, and presentations; reports, correspondence, and congressional testimony) available on its website: [www.nwtrb.gov](http://www.nwtrb.gov)



# Today's Meeting Information

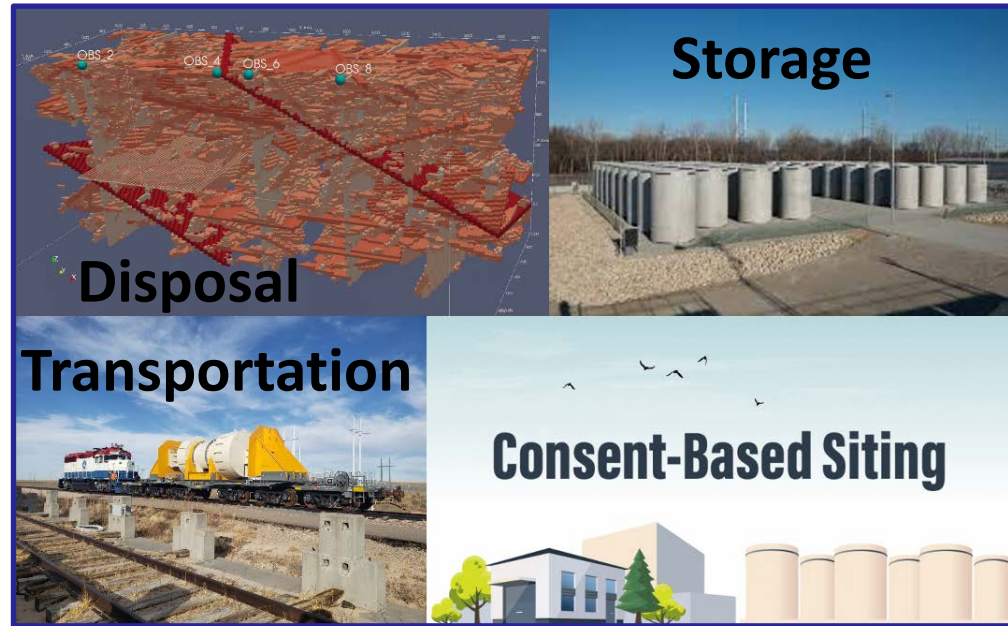
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- Go to [www.nwtrb.gov](http://www.nwtrb.gov) for meeting agenda and presentations
- Public comment period (at the end of each day)
  - Use “Comment for the Record”
  - Comments received before the public comment period begins will be read online by Board staff member Bret Leslie
  - Time for each comment during the meeting may be limited, but the entirety of the comment will be included in the meeting record
- The meeting is being recorded (the transcript and archived recording of the meeting will be available at [www.nwtrb.gov](http://www.nwtrb.gov))



# Meeting Objective

- Review some DOE research and development activities in the areas of disposal, storage and transportation, and integrated waste management that support DOE's spent fuel and waste disposition efforts.
- Review DOE's consent-based siting process for identifying Federal interim storage facilities for spent nuclear fuel.





# Meeting Agenda (March 1)

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- 12:15 p.m. EST Update on DOE's Dual-Purpose Canister (DPC) Direct Disposal Activities**  
*Timothy Gunter, DOE, Office of Nuclear Energy*  
*Geoff Freeze, Sandia National Laboratories*
- 12:55 p.m. EST Repository-Scale Performance Assessment Incorporating Post-Closure Criticality**  
*Laura Price, Sandia National Laboratories*
- 1:55 p.m. EST Break**
- 2:10 p.m. EST Cladding Degradation Modeling Development**  
*Brady Hanson, Pacific Northwest National Laboratory*  
*Laura Price, Sandia National Laboratories*
- 3:10 p.m. EST Summary and Status of DOE's Storage and Transportation Activities**  
*Ned Larson, DOE, Office of Nuclear Energy*
- 3:50 p.m. EST Spent Nuclear Fuel Interim Storage Canister Corrosion and Surface Environment Investigation**  
*Charles Bryan and Rebecca Schaller, Sandia National Laboratories*
- 4:50 p.m. EST Public Comments**
- 5:00 p.m. EST Adjourn Day 1**



# Meeting Agenda (March 2)

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- 12:05 p.m. EST**    **Aerosol Transmission**  
*Sam Durbin, Sandia National Laboratories*
- 12:55 p.m. EST**    **Hanford Lead Canister Overview and Status Presentation**  
*Nick Klymyshyn, Pacific Northwest National Laboratory*  
*Gary Cannell, Fluor/Central Plateau Cleanup Company*
- 1:45 p.m. EST**    **Break**
- 2:00 p.m. EST**    **Updated Waste Management System Analysis Tool Requirements and Enhancements**  
*Robby Joseph, Idaho National Laboratory*
- 2:50 p.m. EST**    **Current Functions and Capabilities of DOE's Stakeholder Tool for Assisting Radioactive Transportation (START)**  
*Erica Bickford, DOE, Office of Nuclear Energy*
- 3:40 p.m. EST**    **Update on Consent-Based Siting**  
*Alisa Trenzo, DOE, Office of Nuclear Energy*
- 4:45 p.m. EST**    **Public Comments**
- 5:00 p.m. EST**    **Adjourn Public Meeting**

