



U.S. Nuclear Waste Technical Review Board

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U.S. Nuclear Waste Technical Review Board

Presented to:

Summer 2023 Board Meeting

Presented By:

Dr. Nathan Siu, Chair

Board Members

- ❖ **Nathan Siu, Ph.D., Chair** – U.S. Nuclear Regulatory Commission (retired)
- ❖ **Ronald Ballinger, Sc.D.** – Massachusetts Institute of Technology
- ❖ **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.** – North Carolina State University
- ❖ **Scott Tyler, Ph.D., Deputy Chair** – University of Nevada, Reno
- ❖ **Brian Woods, Ph.D.** – Oregon State University
- ❖ (Position vacant)
- ❖ (Position vacant)



About the Board



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



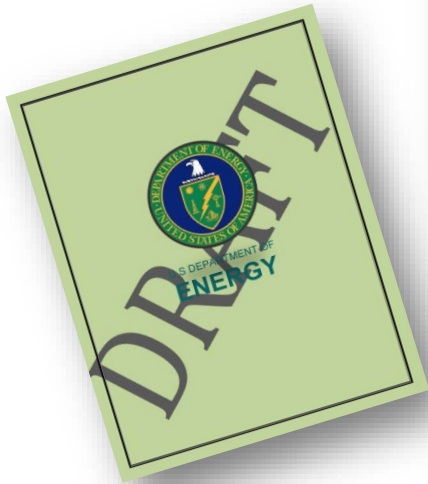
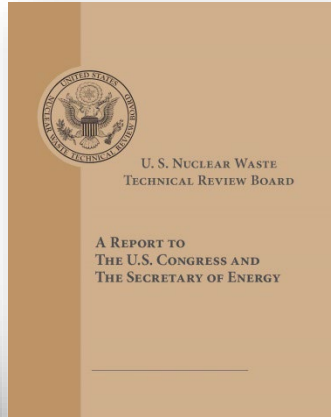
- At full strength, the Board is composed of eleven members
- Board members are nominated by the National Academy of Sciences and appointed by the President to four-year terms
- Terms are staggered, and Board members may continue to serve until they are reappointed or replaced



About the Board

The Board:

- Conducts independent and objective peer review of U.S. Department of Energy (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



Meeting Information

- Meeting agenda and presentations are available at www.nwtrb.gov
- Two public comment periods (12:15 & 3:40 p.m. MDT)
 - Oral commenters encouraged to sign the public comment register
 - Depending on the number of speakers, a time limit on individual remarks may be set
 - Virtual comments
 - Use “Comment for the Record”
 - Comments submitted online during the meeting will be posted to the Board’s website shortly after meeting adjournment
- The meeting is being webcast live (the transcript and archived recording of the meeting will be available at www.nwtrb.gov)



Meeting Objective

- Review the technical and scientific validity of DOE activities related to
 - Consent-based siting, including DOE's preliminary process for consent-based siting and its integration with DOE's integrated waste management efforts
 - Research and development (R&D) efforts on management and disposal of high burnup fuel
 - R&D efforts on disposition of future advanced reactor waste

CONSENT-BASED SITING ROADMAP

The U.S. Department of Energy is pursuing one or more federal consolidated interim storage facilities to **store the nation's commercial spent nuclear fuel** in the near-term using a **multi-stage consent-based approach** that puts communities' interests at the forefront.



U.S. DEPARTMENT OF ENERGY | Office of NUCLEAR ENERGY



<https://www.energy.gov/sites/default/files/2023-05/CBSRoadmap-2023.pdf>



Meeting Agenda

- 8:15 a.m. MDT** **Update on U.S. Department of Energy’s (DOE’s) Consent-Based Siting Activities**
Natalia Saraeva and Juan Uribe, DOE, Office of Nuclear Energy (DOE-NE)
- 9:20 a.m. MDT** **Overview of Environmental Justice in Consent-Based Siting**
Marissa Bell, DOE-NE
- 10:15 a.m. MDT** **Break**
- 10:25 a.m. MDT** **Incorporating Social Science to Consent-Based Siting**
Marissa Bell and Tran Le, DOE-NE
- 11:20 a.m. MDT** **Developing Digital Tools for Engagement**
Tran Le and Angelica Gheen, DOE-NE
- 12:15 p.m. MDT** **Public Comments**
- 12:30 p.m. MDT** **Lunch**



Meeting Agenda (continued)

- 1:40 p.m. MDT** **Update on DOE’s Research and Development (R&D) Activities on High Burnup Spent Nuclear Fuel (SNF)**
Ned Larson, DOE-NE
Scott Sanborn and John Bignell, Sandia National Laboratories
- 2:40 p.m. MDT** **Advanced Reactor Waste Disposition: Current Advanced Reactor Activities for Spent Fuel and Planned R&D Activities for the Future**
Ned Larson, DOE-NE
Brady Hanson, Pacific Northwest National Laboratory
- 3:40 p.m. MDT** **Public Comments**
- 3:55 p.m. MDT** **Adjourn Public Meeting**

