



U.S. Nuclear Waste Technical Review Board

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U.S. Nuclear Waste Technical Review Board

Presented to:
Summer 2024 Meeting

Presented By:
Dr. Nathan Siu, Chair

August 29, 2024

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 Nuclear Engineer, 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
- ❖ **Scott Tyler, Ph.D., Deputy Chair** – University of Nevada, Reno
- ❖ **Brian Woods, Ph.D.** – Oregon State University
- ❖ (Other positions 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 Nuclear Waste Policy Amendments Act (NWPAA)



Board Member Appointment



NATIONAL ACADEMY
OF SCIENCES



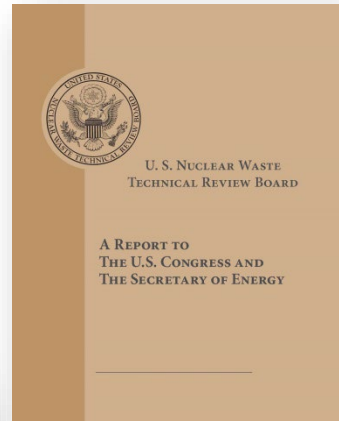
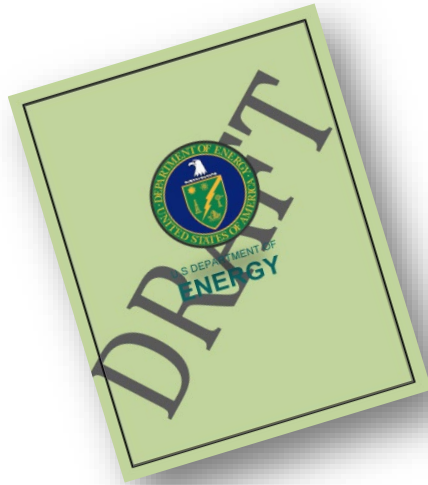
- At full strength, the Board is composed of eleven members
- Board members are nominated by the National Academy of Sciences and appointed by the President to four-year terms
- Terms are staggered, and Board members may continue to serve until they are reappointed or replaced



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



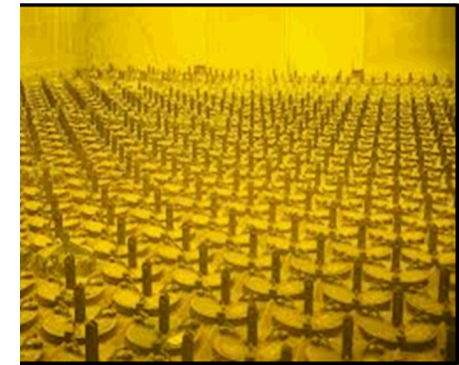
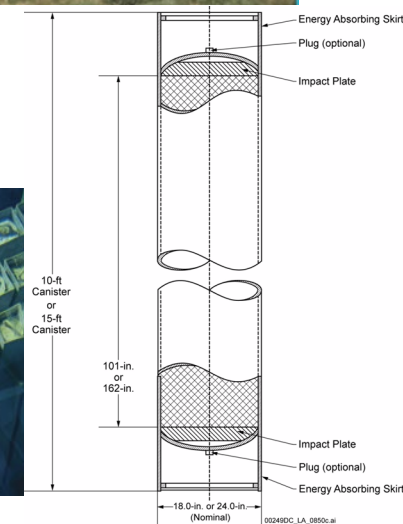
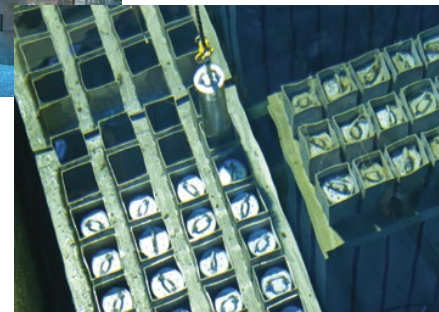
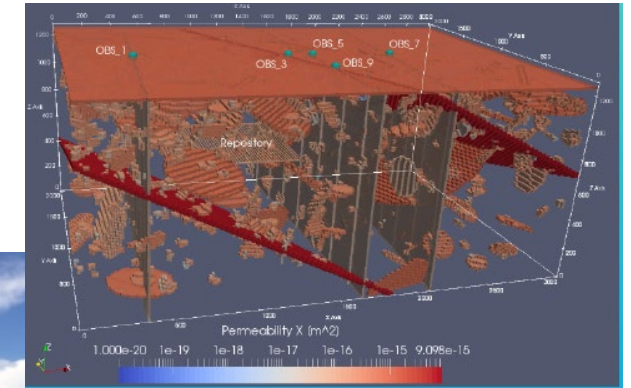
Meeting Information

- Meeting agenda, presentations, and an acronym list are available at www.nwtrb.gov
- Public comment period (at the end of the day)
 - 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 commenters
 - 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 and recorded (the transcript and archived recording of the meeting will be available www.nwtrb.gov)



Meeting Objectives

- Review the scientific and technical validity of DOE activities related to
 - Reprioritization of storage, transportation, and disposal research and development activities
 - Development of federal consolidated interim storage facilities for commercial spent nuclear fuel using a consent-based siting approach
 - Management and plans for disposal of DOE spent nuclear fuel



Workshop Agenda

- 8:15 a.m. EDT** **U.S. Department of Energy (DOE) Office of Spent Fuel and High-Level Waste Disposition Program Update**
Paul Murray, DOE, Office of Nuclear Energy
- 9:05 a.m. EDT** **Overview of DOE Spent Nuclear Fuel (SNF) Storage, Transportation, and Plans for Disposal: Program Successes, Challenges, and DOE's Management Plans**
Jomaries Rovira, DOE, Office of Environmental Management
- 10:00 a.m. EDT** **Break**
- 10:10 a.m. EDT** **DOE Office of Environmental Management SNF Technology Development Program**
Rodrigo Rimando, DOE, Office of Environmental Management
Elmar Eidelpes, Idaho National Laboratory
Gordon Petersen, Idaho National Laboratory
- 11:10 a.m. EDT** **Accelerated Basin De-inventory Project at the Savannah River Site**
James Therrell, Savannah River Nuclear Solutions



Workshop Agenda (cont.)

- 12:00 p.m. EDT** **Lunch Break**
- 1:00 p.m. EDT** **SNF Management at the Savannah River Site L-Basin Facility**
Kiran Karanth, Savannah River Nuclear Solutions
Alexis Schuchmann, Savannah River Nuclear Solutions
- 2:00 p.m. EDT** **SNF Management Alternatives at the Savannah River Site for the Remaining SNF**
Steven Vitto, DOE, Office of Environmental Management
Anna d'Entremont, Savannah River National Laboratory
Xiankui Zhu, Savannah River National Laboratory
- 3:05 p.m. EDT** **Break**
- 3:15 p.m. EDT** **Idaho Site SNF Management: Activities and Plan, Part I**
Nick Balsmeier, DOE Idaho Operations Office
Steve Wahnschaffe, DOE Idaho Operations Office



Workshop Agenda (cont.)

- 4:00 p.m. EDT** **Idaho Site SNF Management: Activities and Plan, Part II**
Will Anderton, Idaho Environmental Coalition
- 4:45 p.m. EDT** **Public Comments**
- 5:00 p.m. EDT** **Adjourn Meeting**

