



UNITED STATES
NUCLEAR WASTE TECHNICAL REVIEW BOARD
2300 Clarendon Boulevard, Suite 1300
Arlington, VA 22201-3367

AGENDA
Summer 2021 Board Meeting

August 24, 2021
Virtual Meeting

<https://preconvirtual.com/nwtrb-gov-8-24-21/>

- 11:30 a.m. EDT** **Call to Order and Introductory Statement**
Jean Bahr, Board Chair
- 11:45 a.m. EDT** **U.S. Department of Energy (DOE) Support of Research on Aluminum-clad Spent Nuclear Fuel (SNF) Packaging, Drying, and Dry Storage**
Mark Senderling, DOE, Office of Environmental Management
John Shultz, DOE, Office of Environmental Management
- QUESTIONS TO BE ADDRESSED:¹
- What are the plans and goals of the DOE program to support research on aluminum-clad SNF?
 - On what schedule does DOE plan to move aluminum-clad SNF to dry storage at Idaho National Laboratory and at the Savannah River Site?
 - What is the anticipated funding level for this research for fiscal year 2022 and beyond?
- 12:00 p.m. EDT Questions, discussion
- 12:10 p.m. EDT** **Review of the Research Program on Extended Dry Storage of Aluminum-clad SNF**
Josh Jarrell, Idaho National Laboratory
- QUESTIONS TO BE ADDRESSED:
- Please explain the overall scope of the program and the integration of the research tasks; please include research tasks that have been completed.
 - What significant open questions remain to be resolved?
 - What are the overall conclusions regarding long-term dry storage of aluminum-clad SNF based on the research completed to date?
- 12:30 p.m. EDT Questions, discussion

¹ The questions have been provided to the speakers in advance of the meeting to convey the Board's primary interests in the agenda topics and to aid in focusing the presentations.

For each of the following presentations, the same questions apply and should be addressed:

- What data have been collected and what are the key findings to date?
- What are the outstanding scientific and technical issues to be resolved?
- What is the path forward and schedule for completing the research?
- What independent reviews have been conducted? What were the results?
- What collaborations have occurred with other countries or with aluminum-related industries in the U.S.?
- Who are the principal investigators and collaborators?
- What reports and papers have been published?

12:45 p.m. EDT	Drying of Aluminum-clad SNF Surrogates (part of Task 5) <i>Rebecca Smith, Idaho National Laboratory</i>
1:15 p.m. EDT	Questions, discussion
1:30 p.m. EDT	Break
1:50 p.m. EDT	Radiolytic Gas Generation due to Aluminum-clad SNF Corrosion Layers (part of Task 2) <i>Greg Horne, Idaho National Laboratory</i>
2:20 p.m. EDT	Questions, discussion
2:35 p.m. EDT	Scale-Up Radiolysis Testing of Aluminum-clad SNF and Surrogates in a Mini-Canister Environment (part of Task 6) <i>Anna d'Entremont, Savannah River National Laboratory</i>
3:05 p.m. EDT	Questions, discussion
3:20 p.m. EDT	Modeling and Simulation Results for Aluminum-clad SNF in DOE Standard Canisters (part of Task 3) <i>Alex Abboud, Idaho National Laboratory</i>
3:50 p.m. EDT	Questions, discussion
4:05 p.m. EDT	Development of Wireless Sensors for Dry-Storage of Aluminum-clad SNF (Instrumented Lid Project) <i>Evans Kitcher, Idaho National Laboratory</i>
4:35 p.m. EDT	Questions, discussion
4:50 p.m. EDT	Public Comments
5:10 p.m. EDT	Adjourn