



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

AGENDA
Winter Meeting
Wednesday, February 16, 2011
Marriott Suites Convention Center
325 Convention Center Drive
Las Vegas, NV 89109
(T) (702)-650-2000 (F) (702)-650-9466
Lake Mead/Red Rock Salons (17th floor)

- 8:30 a.m.** **Call to Order and Introductory Statement**
B. John Garrick, Chairman
U.S. Nuclear Waste Technical Review Board
- 8:45 a.m.** **Update on the Fuel-Cycle Technology Activities of the**
U.S. Department of Energy's Office of Nuclear Energy (DOE-NE)
[Monica C. Regalbuto](#), Deputy Assistant Secretary for Fuel Cycle
Technologies
DOE-NE
- 9:15 a.m. Questions and Discussion*
- 9:30 a.m.** **Update on DOE's Research and Development Activities for Used**
Nuclear Fuel Disposition: Storage, Transportation, and Disposal
[William J. Boyle](#), Director
Office of Used Nuclear Fuel Disposition Research and Development
DOE-NE
- 10:00 a.m. Questions and Discussion*
- 10:15 a.m.** **BREAK (15 minutes)**
- 10:30 a.m.** **Panel on Technical Experience Gained from DOE's Spent Nuclear Fuel**
and High-Level Radioactive Waste Management Efforts, to Date.
Moderator: B. John Garrick, NWTRB Chairman
- Panelists:**
Lake H. Barrett, Independent Consultant
Former Acting Director, DOE Office of Civilian Radioactive Waste
Management (DOE-RW) (1993, 1996 - 1999, 2000 - 2002)

[George E. Dials](#), Executive Vice President
B&W Technical Services Group
Former President and General Manager of TRW Environmental Safety Systems, Inc., (Management and Operating Contractor for the DOE Yucca Mountain Project) (1999 – 2001); and Manager of the DOE Carlsbad Area Office with responsibility for managing the WIPP Project (1993 – 1998)

[Christopher A. Kouts](#), Independent Consultant
Former Acting Director of DOE-RW (2009 - 2010)

[John W. Bartlett](#), Independent Consultant, Retired (Invited)
Former Director, DOE-RW (1990-1993)

Each panel member has been invited to make an opening presentation and to address the following questions:

1. What technical advances were made during the development of the Yucca Mountain program that would be applicable in developing future programs for management of spent nuclear fuel and high-level waste in the United States?
2. What scientific research, or technical development work, should be undertaken now, or in the near term, to support future development of a repository for disposal of spent nuclear fuel and high-level waste?
3. How did different managerial approaches and changes in management approaches during the development of the Yucca Mountain program influence the technical design, planned operations and logistics?
4. What actions were taken to build public trust and confidence in scientific and technical activities and results? Which of these actions should be repeated for future repository programs and which should not? What, if anything, could have been done better?

11:30 a.m. **Discussion on Technical Experience Gained**
Board and Panel members

12:30 p.m. **LUNCH (1 hour 15 minutes)**

1:45 p.m. **Electric Power Research Institute (EPRI) Review of Geologic Disposal Options for Used Fuel and High-Level Radioactive Waste – Lessons Learned**
[Andrew G. Sowder](#), Senior Project Manager
Used Fuel and High-Level Radioactive Waste Management
EPRI

2:15 p.m. *Questions and Discussion*

2:30 p.m. Deep Borehole Disposal: *Technical Concept and Performance Assessment Summary*

[Patrick V. Brady](#), Senior Scientist
Sandia National Laboratories (SNL)

Deep Borehole Disposal: *Programmatic Benefits and Pilot Demonstration Path Forward*

[S. Andrew Orrell](#), Director
Nuclear Energy & Fuel Cycle Programs
SNL

3:00 p.m. *Questions and Discussion*

3:15 p.m. BREAK (15 minutes)

3:30 p.m. Panel on Geologic Disposal Options
Moderator: Andrew Kadak, NWTRB Member

Panelists:

[Ernest L. Hardin](#), Principal Member of the Technical Staff
Nuclear Fuel Cycle System Engineering & Integration Department
SNL

S. Andrew Orrell, Director of Nuclear Energy & Fuel Cycle Programs
SNL

[Hank C. Jenkins-Smith](#), Professor of Political Science
University of Oklahoma

Ernest Hardin will discuss issues raised in the recent SNL Report on this subject (*Geologic Disposal Options in the USA*) and technical aspects of identifying suitable geologic media for a geologic repository. Andrew Orrell will join the discussion. Hank Jenkins-Smith will discuss public acceptance issues related to the process for identifying a geographic location for a repository.

4:15 pm. Discussion on Geologic Disposal Options
Board and Panel Members

5:00 p.m. Public Comments

5:30 p.m. Adjourn