



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

## MEETING AGENDA

Longstreet Inn  
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SEPTEMBER 27, 2006

- 9:00 A.M.     **Opening Remarks**  
B. John Garrick, Chairman, U.S. Nuclear Waste Technical Review Board
- 9:30 A.M.     **OCRWM Program and Project Overviews**  
[Edward Sproat](#), Director,  
Office of Civilian Radioactive Waste Management, DOE
- 9:50 A.M.     *Discussion*
- 10:10 A.M.    **Break**
- 10:30 A.M.    **NRC Perspective on the Safety Case for Geologic Repositories**  
[Lawrence Kokajko](#), U.S. Nuclear Regulatory Commission
- 11:00 A.M.    *Discussion*
- 11:30 A.M.    **Lunch**
- 12:30 P.M.    **Overview of OCRWM's Yucca Mountain Repository System Postclosure Safety Case**  
[Russ Dyer](#), DOE/OCS
- 12:50 P.M.    *Discussion*
- 1:10 P.M.     **Barrier Capability and the Assessment of System Performance**  
[Peter Swift](#), Sandia National Laboratories  
  . *System performance assessment process: site characterization; features, events, and processes (FEPs); iterative modeling of components and data collection; identification of barriers; development of system model (i.e., TSPA)*  
  . *Multiple barrier system concept: Quantitative estimates of the capabilities of specific barriers, quantitative estimates of overall system performance*  
  . *Sources and types of uncertainty in system performance assessment*  
  . *Representative quantitative examples of barrier performance*
- 1:40 P.M.     *Discussion*
- 2:10 P.M.     **Break**

- 2:30 P.M.     **The Role of Analogues**  
Pat Brady, Sandia National Laboratories  
  . *The role of analogues in evaluating conceptual models, numerical models, and numerical model predictions*  
  . *Insights into source term, unsaturated zone transport, and system modeling from the Peña Blanca natural analogue*  
  . *Natural analogues in Probabilistic Volcanic Hazard Assessment, Probabilistic Seismic Hazard Assessment, and long-term climate predictions*  
  . *Engineered system analogues*
- 3:00 P.M.     *Discussion*
- 3:30 P.M.     **The Science and Technology Program**  
Mark Peters, Argonne National Laboratory  
  . *Overview of Science and Technology Program research in source term, engineered systems, and natural systems*  
  . *Approach used to ensure that results from the S&T Program enhance the technical basis of (and confidence in) the performance estimates for a Yucca Mountain repository*
- 4:00 P.M.     *Discussion*
- 4:30 P.M.     **Performance Confirmation and Long-Term Science and Monitoring**  
Frank Hansen, Sandia National Laboratories  
  . *Regulatory requirements for Performance Confirmation and Long-term Science and Monitoring*  
  . *Performance Confirmation ongoing and planned activities*  
  . *Long-term Science and Monitoring ongoing and planned activities*
- 4:50 P.M.     *Discussion*
- 5:10 P.M.     **Concluding Remarks**  
Peter Swift, Sandia National Laboratories
- 5:15 P.M.     *Discussion*
- 5:20 P.M.     **Public Comments**
- 6:00 P.M.     **Adjourn Public Meeting**