



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

## MEETING AGENDA

Desert Research Institute  
755 East Flamingo Road  
Las Vegas, NV 89119  
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**FEBRUARY 1, 2006**

- 8:00 A.M.     **Opening Remarks**  
B. John Garrick, Chairman, U.S. Nuclear Waste Technical Review Board
- 8:30 A.M.     **OCRWM Program and Project Overviews**  
J. R. (Russ) Dyer, U.S. Department of Energy, Office of Civilian Radioactive Waste Management Chief Scientist
- 8:50 A.M.     *Discussion*
- 9:00 A.M.     **Conservatism, Non-conservatism, and Uncertainty in Dose Calculations – Risk Informed Dose Calculations**  
[Michael Ryan](#), Editor-in-Chief, *Health Physics Journal*  
Adjunct Professor, Medical University of South Carolina
- 9:25 A.M.     *Discussion*
- 9:45 A.M.     **Implementation of a Dose Standard after 10,000 Years**  
[Tim McCartin](#), U.S. Nuclear Regulatory Commission
- 10:10 A.M.    *Discussion*
- 10:30 A.M.    **Break**
- 10:45 A.M.    **Mass of Water Seeping into and out of Drifts over Time**  
[Jens Birkholzer](#), Lawrence Berkeley National Laboratory  
[Ernest L. \(Ernie\) Hardin](#), Bechtel SAIC Corporation (BSC)  
*What is the mass flux of water seeping into and out of the drifts over time? What key processes affect these estimates? What are the assumptions and uncertainties associated with these estimates? What is the technical basis for the models used to estimate water mass flux into and out of the drifts over time? How does the mass of water seeping into and out of the drifts vary temporally and spatially?*
- 11:35 A.M.    *Discussion*
- 12:00 P.M.    **Lunch**
- 1:15 P.M.     **Mass and Activity of Key Radionuclides Potentially Released from Waste Forms, Waste Packages, and Drifts over Time**  
[David C. \(Dave\) Sassani](#), Management and Technical Support (MTS)  
Robert L. (Rob) Howard, BSC  
*What are the most significant physical and chemical controls on release of radionuclides from the waste package? What is the qualitative and quantitative*

*level of understanding of those controls? What is being done at present to develop a better understanding of the most significant controls on the release of radionuclides from the waste package? What key processes and events affect the estimate of mass/activity flux from the waste package and engineered barrier system? What is the technical basis for the models used to evaluate those key processes and events? What are the key assumptions and uncertainties associated with these models?*

2:05 P.M. *Discussion*

2:45 P.M. **Break**

3:00 P.M. **Mass and Activity of Key Radionuclides Potentially Released from the Unsaturated and Saturated Zones over Time**

[Bruce Robinson](#), Los Alamos National Laboratory

[Bill W. Arnold](#), Sandia National Laboratory

*For a potential unit release of radionuclide mass or activity from the drifts, what is the rate of release from the unsaturated and saturated zones, respectively? What are the key processes that affect these estimates? What is the technical basis for models used to estimate the mass or activity flux out of the unsaturated and saturated zones? What are the key assumptions and uncertainties associated with this estimate? Given a unit release from the drift tunnels or unsaturated zone, respectively, how do releases from the unsaturated zone and saturated zone vary temporally and spatially?*

3:50 P.M. *Discussion*

4:30 P.M. **Management and Technical Support Peak Dose Sensitivity Analysis**

[Mark Nutt](#), MTS

*What key assumptions were used in the peak dose sensitivity analysis? What are the most significant processes in the peak dose sensitivity analysis? Which processes have the greatest impact on the magnitude of the peak dose? Which processes have the greatest impact on the timing of the peak dose?*

4:55 P.M. *Discussion*

5:15 P.M. **Public Comments**

6:00 P.M. **Adjourn Public Meeting**