



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

Order of Meeting

Developing Multiple Lines of Evidence

Hilton Arlington and Towers
950 North Stafford Street
Arlington, VA 22203
Tel: (703) 528-6000 Fax: (703) 812-5127

Friday; April 13, 2001; 8:30 a.m.

1. Welcome and introductory comments Paul Craig
2. General remarks Lake Barrett
3. DOE's views on multiple lines of evidence [Stephen Hanauer](#)
4. International perspective Abe Van Luik
5. Comments by Board members, consultants, and DOE representatives
6. Discussion of Question 1: *What natural or man-made characteristics, such as configurations, features, processes, designs, or materials, make potential geological or archaeological analogues useful for substantiating assumptions or adding confidence to the conclusions developed by performance assessment? To what extent do such useful analogues exist?*
7. Discussion of Question 2: *What are the pros and cons of using simplified calculations to add confidence to the conclusions of performance assessment?*
8. Discussion of Question 3: *To what extent **should** multiple lines of evidence be derived independently from performance assessment? Why? To what extent **can** multiple lines of evidence be derived independently from performance assessment? How?*
9. Discussion of Question 4: *What is the relationship in terms of adding confidence to the conclusions of performance assessment between traditional notions of defense-in-depth and multiple lines of evidence? (For the purposes of this question, the meaning of the term "defense-in-depth" draws upon the NRC's traditional defense-in-depth philosophy for power reactors, namely, complete reliance for safety cannot be placed on any single element of the repository system.)*
10. Work plans for documenting multiple lines of evidence [Claudia Newbury](#)

(Continued over)

Participants

Board Members

Paul Craig, Chair of Ad Hoc Panel on Multiple Lines of Evidence
Daniel Bullen
Debra Knopman
Richard Parizek
Don Runnells
Jeffery Wong

Board Consultants

Rodney Ewing	University of Michigan
William Murphy	California State University at Chico
Cliff Voss	U.S. Geological Survey/Reston

DOE Representatives

Robert Andrews	Bechtel-SAIC Company (BSC)
William Dudley, Jr.	U.S. Geological Survey/Denver
Stephen Hanauer	DOE
Ardyth Simmons	Lawrence Berkeley National Laboratory
Michael Voegele	BSC
Dennis Williams	DOE