



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
ADVISORY COMMITTEE ON NUCLEAR WASTE  
WASHINGTON, DC 20555 - 0001

**September 9, 2005**

**REVISED**

**AGENDA**  
**163<sup>rd</sup> ACNW MEETING**  
**SEPTEMBER 20-22, 2005**

**TUESDAY, SEPTEMBER 20, 2005, PACIFIC ENTERPRISE PLAZA BUILDING ONE, 3250  
PEPPER LANE, LAS VEGAS, NEVADA 89120**

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|--------------------------|--------------------|---|
| 1)                       | 9:45 - 10:00 A.M.  | <u>Opening Remarks by the ACNW Chairman</u> (Open) (MTR/JTL)<br>The Chairman will make opening remarks regarding the conduct of today's sessions.   |
| 2)                       | 10:00 - 11:45 A.M. | <u>Discussion of Prepared Letters Reports</u> (Open) (All)<br>The Committee will discuss proposed draft letters and reports on the following topics:<br>2.1) Collective Dose (MTR/NMC)<br>2.2) August 2005 ACNW Working Group Meeting on the Waste Determinations (AGC/LSH)<br>2.3) Review of Preclosure Aspects of the Proposed Yucca Mountain Repository Design (WJH/MLS) |
| <b>11:45 - 1:00 P.M.</b> |                    | <b>***LUNCH***</b>  |
| 3)                       | 1:00 - 2:00 P.M.   | <u>Overview on Status of Yucca Mountain Project</u> (Open) (MTR/MPL)<br>The Committee will be briefed by a U.S. Department of Energy (DOE) representative on recent developments affecting the geologic repository program at Yucca Mountain, Nevada.   |
| 4)                       | 2:00 - 3:00 P.M.   | <u>2005 Update to the DOE Performance Confirmation Program Plan</u> (Open) (MTR/NMC)<br>The Committee will be briefed by a DOE representative on the Performance Confirmation Plan to be included in any DOE license application requesting authorization to construct a geologic repository at Yucca Mountain.   |
| <b>3:00 - 3:15 P.M.</b>  |                    | <b>***BREAK***</b>  |
| 5)                       | 3:15 - 4:45 P.M.   | <u>NRC Project Plan for the Yucca Mountain License Application Review</u> (Open) (MTR/LSH)<br>The Committee will be briefed by an NRC representative on staff plans for the review of a DOE license application to construct a proposed geologic repository at Yucca Mountain.  |

- 6) 4:45 - 5:15 P.M. ACNW Low-Level Radioactive Waste (LLW) White Paper: Status Report (Open) (MTR/SAS)  
The Committee will discuss progress in development of a proposed White Paper on LLW management issues.
- 7) 5:15 - 5:45 P.M. ACNW Subcommittee Report on DOE Probabilistic Volcanic Hazards Analysis (PVHA) Workshop (Open) (WJH/NMC)  
The Committee will hear a report from those Members who observed the August 2005 DOE PVHA expert elicitation update.

**5:45 P.M. Adjourn**

**WEDNESDAY, SEPTEMBER 21, 2005, PACIFIC ENTERPRISE PLAZA BUILDING ONE,  
3250 PEPPER LANE, LAS VEGAS, NEVADA 89120**

- 8) 8:30 - 8:40 A.M. Opening Remarks by the ACNW Chairman (Open) (MTR/JTL)  
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 9) 8:40 - 10:40 A.M. 1995 National Academy Science (NAS) Recommendations for Yucca Mountain Standards and the 2004 Court Remand (Open) (WJH/MPL)  
Two Members of the NAS Committee that developed recommendations for site-specific radiation standards will discuss their individual views regarding the 2004 Court decision vacating the 10,000-year time period of regulatory compliance in 40 CFR Part 197, as well as the NAS' earlier one million year time frame recommendation. The scheduled speakers are Mr. Robert Fri (Resources for the Future) and Dr. Fred Philips (New Mexico Institute of Mining and Technology).

**10:40 - 11:00 A.M. \*\*\*BREAK\*\*\***

- 10) 11:00 - 12:00 Noon Evolution of Climate in the Yucca Mountain Area over the Next Million Years (Open) (WJH/NMC)  
Dr. Mark Huber (Purdue University) will review projected climate trends in the Yucca Mountain region and discuss possible implications for the regional ground-water flow system.

**12:00 Noon - 1:15 P.M. \*\*\*LUNCH\*\*\***

- 11) 1:15 - 2:15 P.M. An Approach to the Modeling of Magma/Repository Interactions (Open) (WJH/NMC)  
Dr. Bruce Marsh (Johns Hopkins University), an ACNW consultant, will discuss his views on how this potentially disruptive event might be modeled for the purposes of a Yucca Mountain performance assessment.

- 12) 2:15 - 3:15 P.M. ACNW Summer Intern Project: Modeling a Volcanic Ash Plume (Open) (JHC/MPL)  
Ms. Leah Spradley (Vanderbilt University) will brief the Committee on how the HYSPLIT (Hybrid-Particle Lagrangian Integrated Trajectory) atmospheric dispersion model, developed by the National Oceanographic and Atmospheric Administration, was used to develop an alternative ash plume dispersion analysis for the Yucca Mountain site.

**3:15 - 3:30 P.M. \*\*\*BREAK\*\*\***

- 13) 3:30 - 4:30 P.M. ACNW Subcommittee Report on August 2005 Savannah River and Barnwell LLW Disposal Site Visit (Open) (MTR/LSH)  
The Committee will hear a report from those Members who participated in the aforementioned visits.
- 14) 4:30 - 5:00 P.M. Continuation of Discussion of Possible Letters/Reports (Open) (All)  
The Committee will discuss proposed draft letters and reports on the following topics:
- 14.1) Collective Dose (MTR/NMC)
  - 14.2) August 2005 ACNW Working Group Meeting on the Waste Determinations (AGC/LSH)
  - 14.3) Review of Preclosure Aspects of the Proposed Yucca Mountain Repository Design (WJH/MLS)
  - 14.4) Overview on Status of Yucca Mountain Project (MTR/MPL)
  - 14.5) NRC Project Plan for the Yucca Mountain License Application Review (MTR/LSH)
  - 14.6) 2005 Update to the DOE Performance Confirmation Program Plan (MTR/NMC)
  - 14.7) 1995 National Academy Science Recommendations for Yucca Mountain Standards and the 2000 Court Remarks (WJH/MPL)
  - 14.8) Evolution of Climate in the Yucca Mountain Area over the Next Million Years (WJH/NMC)
- 15) 5:00 - 5:30 P.M. Miscellaneous (Open)  
The Committee will discuss matters related to the conduct of ACNW activities and specific issues that were not completed during previous meetings, as time and availability of information permit. Discussion may include future Committee meeting topics.

**5:30 - 6:00 P.M. \*\*\*BREAK\*\*\***

- 16) 6:00 - 8:00 P.M. ACNW Public Outreach Meeting (Open) (All)  
The purpose of meeting is to develop information to advise the Commission on concerns of Yucca Mountain stakeholders, and to advise the NRC Commission on opportunities to provide better involvement of the stakeholders in NRC's precicensing process. Following the public meeting, the Committee will prepare a letter to the Commission conveying its insights gained from the public's and stakeholders' questions, suggestions, and concerns about the Yucca Mountain program, and to advise the Commission on opportunities to provide better involvement of the stakeholders.

Those persons wishing to make oral or written statements should contact Sharon A. Steele, the ACNW Designated Federal Official, at 301-415-6805 (telephone) or [SAS@nrc.gov](mailto:SAS@nrc.gov) (email).

**8:00 P.M. Adjourn**

**THURSDAY, SEPTEMBER 22, 2005, PACIFIC ENTERPRISE PLAZA BUILDING ONE,  
3250 PEPPER LANE, LAS VEGAS, NEVADA 89120**

- 17) 8:30 - 12:00 P.M. ACNW Retreat (CLOSED) (MTR/JTL)  
The Members and management will discuss the ACNW 's performance, and accomplishments in 2005. Personnel matters such as staffing plans and technical capabilities will also be discussed.
- [NOTE: This session will be closed to protect information pursuant to 5 U.S.C. 552b(c) (2) and (6) to discuss organizational and personnel matters that relate solely to the internal personnel rules and practices of the ACNW, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

**12:00 Noon - 1:30 P.M. \*\*\*LUNCH\*\*\***

- 18) 1:30 - 3:00 P.M. ACNW Retreat, Continued (Open) (All)  
The Committee will evaluate it's progress against the 2005-2006 Action Plan, and determine a path forward to keep the Committee on track to meet Action Plan goals and objectives.

**3:00 - 3:30 P.M. \*\*\*BREAK\*\*\***

- 19) 3:30 - 5:00 P.M. ACNW Committee Member Retreat (Open) (All)  
The Committee will continue it discussion of progress against the 2005-2006 Action Plan.

**5:00 P.M. Adjourn**

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#### **NOTES:**

- C Presentation time should not exceed 50 percent of the total time allocated for a specific item. The remaining 50 percent of the time is reserved for discussion.
- Fifty (50) hard copies and one (1) electronic copy of the presentation materials should be provided to the ACNW.
- C ACNW meeting schedules are subject to change. Presentations may be canceled or rescheduled to another day. If such a change would result in significant inconvenience or hardship, be sure to verify the schedule with Ms. Sharon Steele at 301-415-6805 between 8:00 a.m. and 4:00 p.m. prior to the meeting.

C Special instructions concerning the meeting facility:

- Attendees at this meeting will be subject to security screening prior to entering the meeting facility. Attendees should plan to arrive approximately 45 minutes prior to the meeting.
- No food or drink other than bottled water will be allowed in the meeting facility.
- Access to the parking lot in front of the meeting facility is restricted to participants to the meeting and not available to the general public. Ample street parking for the public is available nearby on Pepper Lane and Sagebrush Lane.