

January 23, 2004

**AGENDA
148th ACNW MEETING
FEBRUARY 24-27, 2004**

**TUESDAY, FEBRUARY 24, 2004, CONFERENCE ROOM T- 2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 1) 8:00 - 8:10 A.M. Opening Statement (Open) (BJG/MTR/MPL)
The Chairman will open the meeting and turn it over to the Working Group Chairman who will state the Working Group objectives and provide a session overview. Invited experts will also be introduced at this time.

**WORKING GROUP: BIOSPHERE DOSE ASSESSMENTS FOR THE PROPOSED YUCCA
MOUNTAIN HIGH-LEVEL WASTE REPOSITORY** (Open)

- 2) 8:10 - 8:20 A.M. The purposes of this Working Group Sessions are to:
2.1) Increase the ACNW's technical knowledge of NRC staff plans to develop and conduct biosphere dose assessment work for the proposed Yucca Mountain repository;
2.2) Understand NRC staff expectations for biosphere dose assessments;
2.3) Review examples of biosphere dose assessment work being planned;
2.4) Identify aspects of biosphere dose assessments that may warrant further study; and
2.5) Complement the previous Working Groups.
- 3) 8:20 - 8:50 A.M. Keynote Presentation: What are the key issues in Biosphere dose assessments. How do the assessments enhance confidence by estimating potential doses? (Open)
3.1) Views on biosphere dose assessments will be presented by a distinguished expert.
3.2) Discussion
- 4) 8:50 - 9:50 A.M. Introduction to Biosphere Dose Assessment: NRC Staff Expectations Regarding Content of Potential Yucca Mountain License Application (Open)
4.1) Presentation by representative(s) of NRC's Office of Nuclear Material Safety and Safeguards' Division of Waste Management (DWM).
4.2) Discussion

9:50 - 10:10 A.M. *BREAK*****

- 5) 10:10 - 11:10 A.M. U.S. Department of Energy (DOE) Approach to Conducting Biosphere Dose Assessments for Yucca Mountain (Open)
 5.1) Presentation by DOE representative(s)
 5.2) Discussion
- 6) 11:10 - 12:00 Noon Public Comments (Open)
- 12:00 - 1:00 P.M. ***LUNCH*****
- 7) 1:00 - 3:15 P.M. Technical Session Discussions: Elements of a Biosphere Dose Assessment Program (Open)
 The two key areas of interest to the Working Group are environmental pathway analysis and metabolic models.
 7.1) Environmental Pathway Analysis: The first technical session will examine how humans might come into contact with radionuclides released from a potential geologic repository at Yucca Mountain. Participants will be asked to describe the principal exposure routes (pathways) through the local biosphere, and how they are being modeled. Principal food-chain, inhalation, and direct contact pathways will be discussed for 6 key radionuclides (^{129}I , ^{99}Tc , ^{237}Np , ^{241}Am , ^{14}C , and ^{239}Pu)
- 1:00 - 1:30 P.M. 7.1.1) Presentation by NRC's DWM representative(s)
 1:30 - 2:00 P.M. 7.1.2) Presentation by DOE representative(s)
 2:00 - 2:30 P.M. 7.1.3) Discussion
 2:30 - 3:00 P.M. 7.1.4) Public Comments
- 3:00 - 3:15 P.M. ***BREAK*****
- 3:15 - 5:45 P.M. 7.2) Metabolic Models: The second technical session will examine the manner by which the human response to radionuclides is assessed. Participants will be asked to describe metabolic routes and exposure duration for each of the environmental pathways identified in Section 7.1 of the Working Group Session. Again, the discussions will be in the context of the 6 key radionuclides of interest.
- 3:15 - 4:15 P.M. 7.2.1) Presentations by NRC's DWM and DOE representative(s)
 4:15 - 4:45 P.M. 7.2.2) Discussion of Federal Guidance applicable to Yucca Mountain
 4:45 - 5:15 P.M. 7.2.3) Discussion
 5:15 - 5:45 P.M. 7.2.4) Public Comments
- 5:45 P.M. Adjourn Day 1

**WEDNESDAY, FEBRUARY 25, 2004, CONFERENCE ROOM T- 2B3, TWO WHITE FLINT
NORTH, ROCKVILLE, MARYLAND**

- 8) 8:00 - 8:10 A.M. Opening Statement (Open) (BJG/MTR/MPL)
The Working Group Chairman will make opening remarks regarding the conduct of today's sessions.

**WORKING GROUP: BIOSPHERE DOSE ASSESSMENTS FOR THE PROPOSED YUCCA
MOUNTAIN HIGH-LEVEL WASTE REPOSITORY - CONTINUED** (Open)

- 9) 8:10 - 9:40 A.M. NRC's Risk Insights Initiative: Impact on Biosphere Dose Assessment Plans (Open) (MTR/MPL)
NRC and DOE reached agreement on 293 additional information needs to be included in a potential Yucca Mountain License Application. These agreements were subsequently risk-ranked by the NRC staff. The intent of this agenda item is for participants and stakeholders to understand what affect, if any, these agreements have had on respective staff approaches to biosphere dose assessments for Yucca Mountain.
- 8:10 - 8:40 A.M. 9.1.1) Presentation by NRC's DWM representative(s)
8:40 - 9:10 A.M. 9.1.2) Presentation by DOE representative on the Departments' position on NRC's risk insights initiative.
9:10 - 9:40 A.M. 9.1.3) Discussion
- 9:40 - 9:55 A.M. ***BREAK*****
- 10) 9:55 - 12:00 Noon Presentations by Stakeholder Organizations (Open)
- 12:00 - 1:00 P.M. ***LUNCH*****
- 11) 1:00 - 1:30 P.M. NRC's Office of Nuclear Regulatory Research (RES) Perspective on Biosphere Dose Assessments (Open)
11.1) Presentation by NRC RES representative
11.2) Discussion
- 12) 1:30 - 2:45 P.M. Working Group Roundtable Panel Discussion (Open)
- 2:45 - 3:00 P.M. ***BREAK*****
- 13) 3:00 - 4:00 P.M. Panel and Committee Summary Discussion (Open)
- 14) 4:00 - 4:30 P.M. Public Comments (Open)
- 15) 4:30 - 4:45 P.M. Closing Comments by the Working Group Chairman (Open) (MTR/MPL)
- 16) 4:45 - 5:45 P.M. Discussion of ACNW Letter Report (Open) (MTR/MPL)
Discussion of principal points in potential letter report to the Commission on results and observations from the ACNW Biosphere Dose Assessment Working Group.
- 5:45 P.M. Adjourn Day 2

THURSDAY, FEBRUARY 26, 2004, CONFERENCE ROOM T-2B3, TWO WHITE FLINT

NORTH, ROCKVILLE, MARYLAND

- 17) 11:30 - 11:40 A.M. Opening Remarks by the ACNW Chairman (Open) (BJG/JTL)
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 18) 11:40 - 12:30 P.M. Waste Management - Related Safety Research Report (Open) (RFW/MTR/RPS)
Discussion of recent Member activities relevant to the ACNW review of NRC waste management - related safety research as well as a discussion of the proposed report.
- 12:30 - 1:30 P.M. ***LUNCH*****
- 19) 1:30 - 4:30 P.M. Radiological Dispersal Devices (Closed) (MTR/RKM)
The Committee will be briefed by the NRC staff on the current status of work in progress on health and safety and public protection issues related to radiological dispersal devices (**Room T-8E8**).
- 4:30 - 4:45 P.M. ***BREAK*****
- 20) 4:45 - 6:30 P.M. Preparation of ACNW Reports (Open) (BJG/RKM)
The Committee will discuss potential reports on:
20.1) Pre-Closure Safety Assessment Tool (RFW/RKM)
20.2) Drift Degradation at Yucca Mountain (BJG/RKM)
20.3) Public Interactions during November 2003 Nevada Field Trip (BJG/MPL)
20.4) ACNW Chair/Vice Chair January 7-8, 2004 Individual Meetings with Commissioners and NRC Senior Management (BJG/MPL)

**FRIDAY, FEBRUARY 27, 2004, CONFERENCE ROOM T-2B3, TWO WHITE FLINT
NORTH, ROCKVILLE, MARYLAND**

- 21) 8:30 - 8:35 A.M. Opening Remarks by the ACNW Chairman (Open) (BJG/JTL)
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 22) 8:35 - 10:00 A.M. Risk Insights Report (Open) (BJG/NMC)
The Committee will be updated by and hold discussions with representatives of the NRC staff on recent risk insight activities.
- 10:00 - 10:15 A.M. ***BREAK*****
- 23) 10:15 - 11:15 a.m. Report on KTI Status and DWM Evaluation of DOE's Bundling Approach (Open) (GMH/MPL)
The Committee will be briefed by a representative of the NRC staff on the status of Yucca Mountain KTIs and the results of the DWM evaluation of DOE "Bundles" received to date.

- 24) 11:15 - 12:15 P.M. Preparation of ACNW Reports (Open) (BJG/RKM)
 The Committee will discuss potential reports on:
 24.1) Pre-Closure Safety Assessment Tool (RFW/RKM)
 24.2) Drift Degradation at Yucca Mountain (BJG/RKM)
 24.3) Public Interactions during November 2003 Nevada Field Trip (BJG/MPL)
 24.4) Risk Insights Report (BJG/NMC)
 24.5) Report on DWM Evaluation of DOE Bundling Approach (GMH/MPL)
 24.6) Radiological Dispersal Devices (MTR/RKM) **(Closed)**
(Room T-8E8)
 24.7) Biosphere Working Group (MTR/MPL)
 24.8) ACNW Chair/Vice Chair January 7-8, 2004 Individual Meetings with Commissioners and NRC Senior Management (BJG/MPL)
- 12:15 - 1:15 P.M. *****LUNCH*****
- 25) 1:15 - 2:45 P.M. Preparation of ACNW Report (Open) (BJG/RKM)
 The Committee will continue preparation of reports in Item 24.
- 26) 2:45 - 3:00 P.M. Miscellaneous (Open)
 The Committee will discuss matters related to the conduct of Committee activities and matters and specific issues that were not completed during previous meetings, as time and availability of information permit.
- 3:00 P.M. Adjourn 148th Meeting

NOTE:

- 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.
- Thirty-Five (35) copies of the presentation materials should be provided to the ACNW.
- 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 Mr. Howard Larson at 301-415-6805 between 8:00 a.m. and 4:00 p.m. prior to the meeting.

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