



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON NUCLEAR WASTE  
WASHINGTON, D.C. 20555-0001

June 6, 2007

MEMORANDUM TO: ACNW Members  
ACNW Staff

*Michele S. Kelton*

FROM: Michele S. Kelton  
Technical Secretary, ACNW

SUBJECT: CERTIFIED MINUTES OF THE 178<sup>TH</sup> MEETING OF THE ADVISORY  
COMMITTEE ON NUCLEAR WASTE (ACNW) APRIL 10-12, 2007

The proposed minutes of the subject meeting have been certified as the official record of the proceedings for that meeting.

Attachment:  
Certified Minutes of the 178<sup>th</sup> Meeting  
April 10-12, 2007

cc: A. Bates, SECY (O-16C1)  
S. Jones, NMSS (T-8A23)  
J. Lamb, OEDO (O-16E15)

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# **CERTIFIED**

6/6/2007

By MICHAEL T. RYAN

Issued: 6/6/07

## **CERTIFIED MINUTES OF THE 178<sup>TH</sup> MEETING OF THE ADVISORY COMMITTEE ON NUCLEAR WASTE April 10–12, 2007**

The U.S. Nuclear Regulatory Commission (NRC) Advisory Committee on Nuclear Waste (ACNW or the Committee) held its 178<sup>th</sup> meeting on April 10–12, 2007, at One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The ACNW published a notice of this meeting in the *Federal Register* on March 30, 2007 (72 FR 15173) (see Appendix A). This meeting served as a forum for attendees to discuss and take appropriate action on agenda items (see Appendix B). The entire meeting was open to the public.

A transcript of selected parts of the meeting is available in the NRC's Public Document Room at One White Flint North, Room 1F19, 11555 Rockville Pike, Rockville, Maryland. Copies of the transcript are available for purchase from Neal R. Gross and Company, Inc., 1323 Rhode Island Avenue, NW, Washington, DC 20005. Members of the public may download transcripts from, or review them on, the Internet at <http://www.nrc.gov/reading-rm/doc-collections/acnw/tr/> at no cost.

ACNW members Dr. Michael T. Ryan (ACNW Chairman), Mr. Allen G. Croff (ACNW Vice Chairman), Dr. James H. Clarke, Dr. William J. Hinze, and Dr. Ruth Weiner attended this meeting. ACNW consultant Dr. Bruce Marsh was also in attendance. Appendix C includes a list of other attendees.

### **I. CHAIRMAN'S REPORT (OPEN)**

[Dr. Antonio Dias was the Designated Federal Official for this part of the meeting.]

Dr. Ryan, ACNW Chairman, convened the meeting at 10:28 a.m. and briefly reviewed the agenda. He noted that the meeting was being conducted in conformance with the Federal Advisory Committee Act. Dr. Ryan asked members of the public who were present and wished to address the Committee to inform the ACNW staff so that time could be allocated for them to speak.

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**II. STATUS OF OVERALL GEOLOGIC REPOSITORY PROGRAM AT YUCCA MOUNTAIN:  
VIEWS OF THE DIRECTOR OF THE U.S. DEPARTMENT OF ENERGY'S (DOE'S)  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT (OPEN)**

[Mr. Michael Lee was the Designated Federal Official for this part of the meeting.]

At the invitation of the Committee, Mr. Edward (Ward) F. Sproat III, shared his views regarding progress being made by the U.S. Department of Energy (DOE) in completing a licence application necessary for an NRC construction authorization for a geologic repository at Yucca Mountain, Nevada. As already widely reported in the media, Mr. Sproat noted that the DOE expects to submit a license application to the NRC by June 2008, based on Title 10 Part 63 of the *Code of Federal Regulations* (CFR) ("Disposal of High-Level Radioactive Wastes in a Geologic Repository at Yucca Mountain, Nevada"). He cautioned that the DOE's success in meeting the projected June 2008 license application submittal date relied on receiving \$494.5 million in full spending authority from Congress in fiscal year 2008. Mr. Sproat also noted that he will be leaving the DOE once the license application is submitted to the NRC.

In conjunction with preparation of the NRC license application, Mr. Sproat noted that he and his senior management team were working toward some key strategic objectives to ensure the viability of the DOE high-level waste (HLW) program for Yucca Mountain. As envisioned, this "business plan" included the preparation of a complete and high-quality NRC license application, the preservation and maintenance of a highly competent technical staff to support the DOE program, an accepted approach to satisfying the Federal Government's mounting contract liabilities with utilities concerning the title to spent nuclear fuel (SNF), and the development and implementation of a comprehensive (national) SNF transportation plan.

Mr. Sproat also noted that the DOE was in the process of advancing a draft legislative proposal through Congress that DOE managers believed was necessary to ensure successful operation of the repository should the NRC grant a construction authorization. Key elements of that draft legislative proposal include granting DOE greater access to the Nuclear Waste Fund, permanent withdrawal of certain public lands for operation of the geologic repository, and repeal of the 70,000 metric ton heavy metal legislative limit on the capacity of any Yucca Mountain repository. Mr. Sproat stated that DOE access to the interest alone on the Nuclear Waste Fund would be sufficient for DOE to maintain a viable program at Yucca Mountain.

Following his presentation, Mr. Sproat responded to questions and comments from the ACNW members. The scope of the Committee questions and comments, and Mr. Sproat's responses to them, have been captured in the verbatim meeting transcript that serves as the official meeting record for this presentation. As part of this dialogue, the members noted that they would be interested in future DOE briefings on the following subjects:

- recent total system performance assessment results in light of a 1,000,000-year standard
- final surface facility design for the license application

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- recent modeling results concerning the long-term stability of underground drifts and drift degradation
- final decisionmaking concerning seismic design bases

The Committee expects to be briefed by the staff on its independent view in this area at its next meeting. No letter will be written at this time.

**III. STAFF BRIEFING ON INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA) REQUIREMENTS DOCUMENT WS-R-4: "DESIGN AND OPERATION OF FACILITIES FOR GEOLOGICAL DISPOSAL OF RADIOACTIVE WASTE" (OPEN)**

[Mr. Michael Lee was the Designated Federal Official for this part of the meeting.]

The Waste Safety Standards Advisory Committee (WASSAC) is a standing International Atomic Energy Agency (IAEA) committee that focuses on the safe management of long-lived radioactive wastes in geologic repositories. The WASSAC develops safety requirements for all phases of geologic repository operations (i.e., planning, design, disposal operations, and closure). The NRC participates in WASSAC activities to ensure compatibility of its regulatory programs with international standard-setting efforts and to improve public confidence in its programs.

In 2005, the WASSAC completed an initial draft of an IAEA Safety Guide titled "Design and Operation of Facilities for Geological Disposal of Radioactive Waste" (DS-334). DS-334 provided general guidance to policy makers, regulators, and operators concerned with the development and regulatory control of these types of facilities. Supporting DS-334 is a companion IAEA/WASSAC Safety Requirements document titled "Geological Disposal of Radioactive Waste" (DS-154). DS-154 described specific safety objectives for both the pre- and post-closure phases of repository operations, but did not make any specific, quantitative recommendations concerning the duration (time) over which the safety objectives are to apply. Because of the relative maturity of the domestic high-level waste (HLW) disposal program, the United States (specifically the NRC) has played a leadership role in the development of DS-154. At its 161<sup>st</sup> meeting in July 2005, the NRC staff provided the ACNW with an information briefing on DS-154. Later, in 2006, DS-154 was approved by IAEA members and issued in final form but under a new control number, WS-R-4: "Design and Operation of Facilities for Geological Disposal of Radioactive Waste."

During this meeting, Mr. Tim McCartin, representing the Division of High-Level Waste and Repository Safety (HLWRS) summarized the content of WS-R-4 and described how it comported with the NRC's site specific regulatory framework for Yucca Mountain, Nevada, found at 10 CFR Part 63. During the presentation, he noted that WS-R-4 was consistent with 10 CFR Part 63 and in a few cases, more stringent. Mr. McCartin also noted essentially no changes were made to WS-R-4 over the earlier draft (DS-154). Following the completion of his presentation, Mr. McCartin responded to questions and comments from the ACNW members and staff.

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The scope of the Committee questions and comments, and Mr. McCartin's responses to them, have been captured in the verbatim meeting transcript that serves as the official meeting record for this portion of the meeting.

**IV. INTERIM STAFF GUIDANCE (ISG)-03: "PRECLOSURE SAFETY ANALYSIS—DOSE PERFORMANCE OBJECTIVES AND RADIATION PROTECTION PROGRAM TO SUPPLEMENT THE YUCCA MOUNTAIN REVIEW PLAN" (OPEN)**

[Mr. Christopher Brown was the Designated Federal Official for this part of the meeting.]

Dr. Sheena Whaley, Chief of the Engineering Branch, from the HLWRS, briefed the Committee on the HLWRS Interim Staff Guidance (ISG)-03, "Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program." The purpose of this ISG is to supplement the Yucca Mountain Review Plan (NUREG-1804, Revision 2, Final Report) for the staff's review of consequence estimates for the preclosure safety analysis and the associated radiation protection program (RPP). The RPP will be implemented by the DOE during geologic repository operation area (GROA) operations. Dr. Whaley explained what DOE should present in the license application and what the staff should evaluate in reviewing the GROA activities in the application. It was explained to the Committee that guidance was added on what constitutes a sufficient description of a RPP and adequate technical bases for consequence estimates. This additional information was needed in the ISG to ensure compliance with the performance objectives of 10 CFR Part 63 and radiation protection requirements of 10 CFR Part 20 ("Standards for Protection Against Radiation"). Dr. Whaley concluded her presentation by discussing several performance objectives for normal operations and event sequences.

The Committee supports the staff's proposal to issue this guidance.

**V. PROPOSED REVISION TO STANDARD REVIEW PLAN CHAPTERS 11.3 AND 11.4 FOR NEW REACTOR LICENSING (OPEN)**

[Mr. Derek Widmayer was the Designated Federal Official for this part of the meeting.]

Jean-Claude Dehmé of the Office of New Reactor Programs (NRO) briefed the Committee on the proposed updates and revisions to Chapter 11.3, "Gaseous Waste Management System" (GWMS) and Chapter 11.4, "Solid Waste Management System" (SWMS) of NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants." He explained that the Standard Review Plan (SRP) chapters have been updated to include 10 CFR Part 20.1406, "Minimization of Contamination," acceptance criteria and guidance for reviews of the GWMS and SWMS to meet this requirement, and to include more information on acceptability of mobile waste treatment systems. He explained that other changes have been made to bring the chapters up-to-date with reactor licensing procedures and rule

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language since the last time they were revised. The SRP chapters incorporate, where appropriate, information from the Tritium Task Force Report and from lessons learned in decommissioning developed by the now Office of Federal and State Materials and Environmental Management Programs (FSME).

In response to questions from the Committee, Dr. Dehmel discussed the use of the Gaseous and Liquid Effluent (GALE) Computer Code that is referenced as an approved methodology in the two SRP Chapters. The use of the GALE code has been a concern of the Committee from two previous briefings (on SRP Chapter 11.2, "Liquid Waste Management System," of NUREG-0800 and Reg Guide 4.15, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) – Effluent Streams and the Environment").

The Committee agreed to write a letter that consolidates the Committee's reviews on all SRP Radioactive Waste Management Chapters (Chapters 11.2 through 11.5) following the presentation for Chapter 11.5, "Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems," which is scheduled for the May 2007 Committee meeting.

**VI. PATH FORWARD ON AN IN-SITU LEACH (ISL) RULEMAKING—SUMMARY OF MEETINGS WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE NATIONAL MINING ASSOCIATION—NEXT STEPS (OPEN)**

[Dr. Latif Hamdan was the Designated Federal Official for this part of the meeting.]

FSME staff representatives briefed the Committee on the status of a rulemaking on groundwater protection at in-situ leach (ISL) uranium recovery facilities. The staff discussed the legislative and regulatory background for the licensing of uranium recovery operations, as well as the history of the rulemaking (including efforts to eliminate dual regulation), interactions with the U.S. Environmental Protection Agency (EPA), public interactions with the National Mining Association, and staff strategy and path forward for rulemaking development. The FSME staff indicated that the regulations for uranium recovery operations are grounded in the Uranium Mill Tailings Radiation Control Act and the Atomic Energy Act, as amended, and that they include the EPA standards in 40 CFR Part 192 ("Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings") and NRC regulations in Appendix A to 10 CFR Part 40 ("Criteria Relating to the Operation of Uranium Mills and the Disposition of Tailings or Wastes Produced by the Extraction or Concentration of Source Material From Ores Processed Primarily for Their Source Material Content"). They noted that these regulations apply mainly to conventional uranium mills and mill tailings disposal sites, and do not explicitly address uranium recovery by the ISL method.

The staff stated that ISL is currently the uranium mining method of choice and that the existing regulations provide little or no specific provisions for regulating uranium recovery by this method. They explained that ISL facilities are regulated by the NRC through license conditions, based on guidance in NUREG-1569 ("Standard Review Plan for In Situ Leach Uranium

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Extraction License Applications”), which calls for restoration of contaminants in the groundwater to pre-operational (baseline) water quality conditions or pre-operational class of use, in the production zone as well as any affected aquifers. If a constituent cannot technically or economically be restored, an applicant must demonstrate that the resulting higher concentration would not degrade adjacent groundwater resources unacceptably or threaten health and safety. They added that ISL operators must also obtain permits from the EPA or EPA-authorized states under the underground injection control program (40 CFR Parts 144 and 146). The staff said that their proposed strategy for the rulemaking is to create a new criterion in 10 CFR Part 40, Appendix A, which will address groundwater protection at ISL facilities, and that they will forward the proposed strategy to the Commission by April 30, 2007. The staff also said that they will brief the Committee on the technical basis for the rulemaking in the future as needed. At the end of the briefing, the staff answered questions by the Committee members and ACNW staff on several topics, including the technical basis for the rulemaking, stakeholder involvement, establishing background/baseline groundwater quality, radioactive and non-radioactive contaminants in the mined zone, groundwater restoration standard, post-restoration monitoring, alternate concentration limits, effluent disposal, updating existing regulatory guides, and risk-informing the regulations.

The Committee wrote a letter on its advice and recommendations on the impending development of the rulemaking.

**VII. BRIEFING ON THE MULTI-AGENCY RADIATION SURVEY AND ASSESSMENT OF MATERIALS AND EQUIPMENT (MARSAME) MANUAL (OPEN)**

[Mr. Derek Widmayer was the Designated Federal Official for this part of the meeting.]

Robert Meck of the Office of Nuclear Regulatory Research (RES) briefed the Committee on the Draft Multi-Agency Radiation Survey and Assessment of Materials and Equipment Manual (MARSAME). Dr. Meck provided the basic survey approaches recommended in the manual, emphasizing the statistical methodologies for addressing uncertainties. He provided handouts showing the major differences and similarities with the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), and discussed the application of the MARSAME approach using one of the case studies that is provided in MARSAME. Dr. Meck said the major advantages of the MARSAME approach over others is simply that it is being endorsed by multiple agencies who have operations and facilities at which free release of radioactively contaminated material is an issue, and that the methodology is technically defensible and reproducible.

The Committee expressed interest in hearing about the implementation of MARSAME once it is final. A letter may be issued at that time.



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**VIII. SCOPE AND METHODOLOGY OF THE GOVERNMENT ACCOUNTABILITY OFFICE'S (GAO'S) ONGOING REVIEW OF THE GLOBAL NUCLEAR ENERGY PARTNERSHIP (GNEP) EFFORT (OPEN)**

[Mr. John Flack was the Designated Federal Official for this part of the meeting.]

The Committee continues to remain informed of developments in the area of nuclear fuel recycling. A Government Accountability Office (GAO) representative provided the ACNW with an overview of the preliminary scope and objectives for a review they plan to undertake on the DOE's Global Nuclear Energy Partnership program. The review will focus on the domestic technology development component rather than the international effort, which includes working with other nations to develop and deploy advanced nuclear recycle and reactor technologies.

Three GAO objectives for the review were identified: (1) assess the DOE's basis for selecting the recycling strategy and the associated suite of technologies that would be used in the GNEP, (2) review DOE's assessment of the maturity of the associated technology, and (3) assess the DOE's plan for advancing GNEP. The last objective also considers a wide range of issues, including NRC licensing of the GNEP facilities, and time that would be needed for rulemaking if the DOE proceeds with GNEP. Sub-objectives for each of the 3 objectives were identified and included (e.g., how the DOE plans to analyze the volumes, treatment, and disposal of radioactive waste, and how the DOE will conduct research and development on the various waste forms that have been identified). In closing, the Committee offered its views on issues that GAO may want to consider during their review, and associated challenges that the GNEP represents from a regulatory perspective.

Information supports the Committee's development of a white paper on spent nuclear fuel recycle.

**IX. ACNW WHITE PAPER ON VOLCANISM (OPEN)**

[Mr. Neil Coleman was the Designated Federal Official for this part of the meeting.]

ACNW member William Hinze led the discussion about the white paper on igneous activity at Yucca Mountain. A draft of the report had been published in December 2006 and an ACNW working group meeting on volcanism was held in February 2007. During the March ACNW meeting, the members reviewed a preliminary set of observations and conclusions. These have now been incorporated in the report and were further discussed at the April ACNW meeting. Four handouts containing information related to the white paper were provided to the members. These included a revised summary and conclusions, a new version of the volcanism topics table that will be included in the summary section, a new version of the executive summary, and a draft of the cover letter to transmit the report to the Commission. The summary and conclusions consist of various elements: (1) an introduction, (2) a discussion of the nature, likelihood or probability, and consequences, and (3) uncertainties and alternative models. Dr. Hinze then read into the record the contents of the four white paper handouts.

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On departing this ACNW meeting, members were provided current drafts of the volcanism report on CD and in hard copy. The members were asked to provide any additional comments within two weeks so that a final version of the report and transmittal letter could be prepared for consideration at the May ACNW meeting. The final report is due to the Commission in June 2007.

**X. UPDATE ON WEST VALLEY DRAFT ENVIRONMENTAL IMPACT STATEMENT (OPEN)**

[Mr. Derek Widmayer was the Designated Federal Official for this part of the meeting.]

Dr. Keith McConnell and Mr. Chad Glenn representing the Division of Waste Management and Environmental Protection (DWMEP) provided a briefing on FSME's results of the core team process undertaken at the West Valley Site to identify a new decommissioning option for closure of the site to be evaluated in the site's draft environmental impact statement (DEIS). Staff briefly explained the use of the core team process, its use at other facilities like West Valley and the successes that were achieved, and the results of the process at West Valley to date.

A new decommissioning option tentatively agreed to within the core team was described. This option involves a phased decommissioning approach called a "delayed closure alternative." In summary, decommissioning would achieve an "enhanced" interim end state first, and then, following evaluation of further technical- and policy-related information, a delayed closure end state will be reached.

The "enhanced" interim end state would result in interim closure activities being undertaken to stabilize the NRC Disposal Area (NDA), remove additional liquid remaining in the HLW tanks, mitigate groundwater contamination at the site's North Plateau, and evaluate options for relocation of the HLW canisters to another location at the site. The delayed closure end state would result in the removal of all process buildings in a stabilized site (including further stabilization of the NDA if necessary), and the relocation of HLW canisters awaiting shipment to a deep geologic disposal facility.

The FSME staff representatives explained that there are several technical issues that need to be decided in order to fully achieve the "enhanced" interim end state and evaluate it fully in the DEIS (e.g., the extent of interim actions to be taken at the NDA). These decisions are planned to be made over the next several months by the core team. At the conclusion of the decision-making process, full evaluations of the new alternative will be made for the DEIS.

The DWMEP staff would like to provide a briefing to the ACNW, and acquire feedback from the Committee, on these three products: (1) the model regulatory framework that will be developed by the staff to provide the basis for regulatory decisions for the phased decommissioning approach proposed by the core team, (2) the draft technical basis for resolution of major technical issues that are required to implement the core team process in the DEIS, and, (3) the comments developed by the staff on the revised DEIS that include the core team alternative.

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The Committee agreed not to write a letter to the Commission on the Core Team process used at West Valley and the results of the process so far. However, the Committee agreed that they would like briefings commensurate with the three items identified by the DWMEP staff during the briefing to support a Committee letter at a future date.

The meeting adjourned at 3:40 p.m. on Thursday, April 22, 2007.

## APPENDIX B



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

March 27, 2007

AGENDA  
178<sup>th</sup> ACNW MEETING  
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**TUESDAY, APRIL 10, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,  
ROCKVILLE, MARYLAND**

- 1) 10:30 - 10:35 A.M. ~~10:30 - 10:35~~ **Opening Remarks by the ACNW Chairman** (Open) (MTR/AFD)  
ACNW Chairman, Dr. Michael Ryan, will make opening remarks regarding the conduct of today's sessions.
- 2) 10:35 - 12:30 P.M. ~~10:35 - 11:55~~ **Status of Overall Geologic Repository Program at Yucca Mountain: Views of the Director of the U.S. Department of Energy's (DOE's) Office of Civilian Radioactive Waste Management** (Open) (RFW/MPL)  
Mr. Edward F. (Ward) Sproat will provide the Committee with his views regarding progress being made by DOE in completing a Licence Application necessary for an NRC construction authorization for a geologic repository at Yucca Mountain, Nevada.  
  
11:55  
~~12:30~~ - 1:30 P.M. \*\*\*LUNCH\*\*\*
- 3) 1:30 - 2:30 P.M. ~~2:15~~ **Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste** (Open) (MTR/MPL)  
The Committee will hear a briefing by staff from NRC's Office of Nuclear Material Safety and Safeguards (NMSS) regarding the final IAEA document that is intended to provide guidance to policymakers, regulators, and operators concerned with the development and regulatory control of geologic disposal facilities for the management of long-lived radioactive waste. M. Carlin  
  
2:15 - 2:30  
2:30 - 2:45 P.M. \*\*\*BREAK\*\*\*
- 4) 2:45 - 3:30 P.M. ~~2:30 2:45~~ **Interim Staff Guidance (ISG) - 3: Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program to supplement the Yucca Mountain Review Plan** (Open) (MTR/CLB)  
The NRC staff from Division of High-Level Waste Repository Safety (HLWRS) will brief the Committee on ISG -03, Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program for the staff review of consequence estimates for the preclosure safety analysis and the associated radiation protection program. Whaley

2:45 - 3:30  
5)  
~~3:30 - 4:30 P.M.~~  
3:30 - 3:37

**Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing** (Open) (MTR/DAW)

The NRC Staff from the Office of Nuclear Regulatory Research (RES) will brief the Committee on the proposed revisions to NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," Chapter 11.3, "Gaseous Waste Management Systems" and Chapter 11.4, "Solid Waste Management Systems," in support of new reactor licensing. *Dehmel*

3:37 - 5:40  
6)  
~~4:30 - 5:30 P.M.~~

**Discussion of Draft ACNW Letter Reports** (Open) (All)

Discussion of proposed ACNW reports on the following:

- 6.1) Use of Moderator Exclusion in the Licensing of Spent Fuel Transportation Casks. (RFW/CLB)

5:40  
~~5:30 P.M.~~

Adjourn

**WEDNESDAY, APRIL 11, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**

7)  
~~9:00 - 9:05 A.M.~~  
9:03

**Opening Remarks by the ACNW Chairman** (Open) (MTR/MPL)

The Chairman will make opening remarks regarding the conduct of today's sessions. *Draft for M. Ryan*

8)  
9:05 - 10:30 A.M.

**Path Forward on an In-situ Leach (ISL) Rulemaking - Summary of Meetings with EPA and NMA - Next Steps**

(Open) (RFW/LSH)

The NRC staff from the Office of Federal and State Materials and Environmental Management Programs (FSME) will brief the Committee on their efforts in developing a path forward for a rulemaking on groundwater protection at ISL sites. *Slack - 10:30*

10:30 - 10:45 A.M.

\*\*\*BREAK\*\*\*

9)  
10:45 - 11:45 A.M.  
11:37

**Briefing on MARSAME Manual** (Open) (MTR/DAW)

The NRC staff from the Office of Nuclear Regulatory Research (RES) will brief the Committee on the Multi-Agency Radiation Survey and Assessment of Materials and Equipment Manual (MARSAME) Draft Report for Comment. *Meach*

11:37

11:45 - 1:30 P.M.

\*\*\*LUNCH\*\*\*

10)  
1:30 - 2:30 P.M.

**Scope and Methodology of the Government Accountability Office (GAO)'s Ongoing Review of the Global Nuclear Energy Partnership (GNEP) Effort** (Open) (AGC/JHF)

A GAO representative will brief the Committee on the scope and methodology of their current review of the GNEP effort. *Book*

2:30 - 2:45 P.M.

\*\*\*BREAK\*\*\*

2:45 - 3

11) ~~2:45 - 5:30 P.M.~~

3:00

**Discussion of ACNW Letter Reports** (Open) (All)

Discussion of proposed and potential ACNW letter reports on:

- 11.1) Use of Moderator Exclusion in the Licensing of Spent Fuel Transportation Casks (RFW/CLB) 11/10
- 11.2) Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste (MTR/MPL)
- 11.3) Interim Staff Guidance (ISG) - 3: Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program (MTR/CLB)
- 11.4) Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing (MTR/DAW)
- 11.5) Briefing on MARSAME Manual (MTR/DAW)

3:04

~~5:30 P.M.~~

**Adjourn**

volcano 3:27pm 3:00

**THURSDAY, APRIL 12, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**

12) ~~8:30 - 8:35 A.M.~~

5:30 8:33

**Opening Remarks by the ACNW Chairman** (Open) (MTR/NMC)

The Chairman will make opening remarks regarding the conduct of today's sessions.

13) ~~8:35 - 10:30 A.M.~~

8:33 10:05

**ACNW White Paper on Volcanism** (Open) (WJH/NMC)

Followup discussion from February working group meeting; general review of observations, revisions, and summary conclusions for the White Paper on Igneous Activity at Yucca Mountain.

14) ~~10:30 - 11:30 A.M.~~

10:34

**Update on West Valley Draft Environmental Impact Statement** (Open) (JHC/DAW)

The NRC staff from the Office of Federal and State Materials and Environmental Programs (FSME) will update the Committee on new analysis being considered for inclusion in the Draft Environmental Impact Statement for the West Valley Nuclear Fuel Services Center in New York.

11:10  
~~11:30 - 4:00 P.M.~~

**\*\*\*LUNCH\*\*\***

15) ~~1:00 - 2:00 P.M.~~

3:30

**Discussion of ACNW Letter Reports** (Open) (All)

Continued discussion of proposed and potential ACNW letter reports listed under Item 11. 15.1 ISL 14r. -- 2:30-3:30

16) ~~2:00 - 5:30 P.M.~~

3:40

~~5:30 P.M.~~

**Miscellaneous** (Open) (All)

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. Discussions may include content of future letters and scope of future Committee Meetings.

**Adjourn**

**NOTES:**

- \* Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
- \* Thirty five (35) hard copies and one (1) electronic copy of the presentation materials should be provided to the ACNW in advance of the briefing.

the subject facility operating license and any person whose interest may be affected by this proceeding and who wishes to participate as a party in the proceeding must file a written request for a hearing and a petition for leave to intervene. Requests for a hearing and a petition for leave to intervene shall be filed in accordance with the Commission's "Rules of Practice for Domestic Licensing Proceedings" in 10 CFR part 2. Interested persons should consult a current copy of 10 CFR 2.309, which is available at the Commission's PDR, located at One White Flint North, Public File Area O1F21, 11555 Rockville Pike (first floor), Rockville, Maryland. Publicly available records will be accessible from the Agencywide Documents Access and Management System's (ADAMS) Public Electronic Reading Room on the Internet at the NRC Web site, <http://www.nrc.gov/reading-rm/doc-collections/cfr/>. If a request for a hearing or petition for leave to intervene is filed by the above date, the Commission or a presiding officer designated by the Commission or by the Chief Administrative Judge of the Atomic Safety and Licensing Board Panel, will rule on the request and/or petition; and the Secretary or the Chief Administrative Judge of the Atomic Safety and Licensing Board will issue a notice of a hearing or an appropriate order.

As required by 10 CFR 2.309, a petition for leave to intervene shall set forth with particularity the interest of the petitioner in the proceeding, and how that interest may be affected by the results of the proceeding. The petition should specifically explain the reasons why intervention should be permitted with particular reference to the following general requirements: (1) The name, address and telephone number of the requestor or petitioner; (2) the nature of the requestor's/petitioner's right under the Act to be made a party to the proceeding; (3) the nature and extent of the requestor's/petitioner's property, financial, or other interest in the proceeding; and (4) the possible effect of any decision or order which may be entered in the proceeding on the requestors/petitioner's interest. The petition must also identify the specific contentions which the petitioner/requestor seeks to have litigated at the proceeding.

Each contention must consist of a specific statement of the issue of law or fact to be raised or controverted. In addition, the petitioner/requestor shall provide a brief explanation of the bases for the contention and a concise statement of the alleged facts or expert opinion which support the contention

and on which the petitioner intends to rely in proving the contention at the hearing. The petitioner/requestor must also provide references to those specific sources and documents of which the petitioner is aware and on which the petitioner intends to rely to establish those facts or expert opinion. The petition must include sufficient information to show that a genuine dispute exists with the applicant on a material issue of law or fact. Contentions shall be limited to matters within the scope of the amendment under consideration. The contention must be one which, if proven, would entitle the petitioner to relief. A petitioner/requestor who fails to satisfy these requirements with respect to at least one contention will not be permitted to participate as a party.

Those permitted to intervene become parties to the proceeding, subject to any limitations in the order granting leave to intervene, and have the opportunity to participate fully in the conduct of the hearing.

If a hearing is requested, the Commission will make a final determination on the issue of no significant hazards consideration. The final determination will serve to decide when the hearing is held. If the final determination is that the amendment request involves no significant hazards consideration, the Commission may issue the amendment and make it immediately effective, notwithstanding the request for a hearing. Any hearing held would take place after issuance of the amendment. If the final determination is that the amendment request involves a significant hazards consideration, any hearing held would take place before the issuance of any amendment.

Untimely requests and/or petitions and contentions will not be entertained absent a determination by the Commission or the presiding officer of the Atomic Safety and Licensing Board that the petition, request and/or the contentions should be granted based on a balancing of the factors specified in 10 CFR 2.309(c)(1)(i)-(viii).

A request for a hearing or a petition for leave to intervene must be filed by:

(1) First class mail addressed to the Office of the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemaking and Adjudications Staff; (2) courier, express mail, and expedited delivery services: Office of the Secretary, Sixteenth Floor, One White Flint North, 11555 Rockville Pike, Rockville, Maryland, 20852, Attention: Rulemaking and Adjudications Staff; (3) e-mail

addressed to the Office of the Secretary, U.S. Nuclear Regulatory Commission, [HEARINGDOCKET@NRC.GOV](mailto:HEARINGDOCKET@NRC.GOV); or (4) facsimile transmission addressed to the Office of the Secretary, U.S. Nuclear Regulatory Commission, Washington, DC, Attention: Rulemaking and Adjudications Staff at (301) 415-1101, verification number is (301) 415-1966. A copy of the request for hearing and petition for leave to intervene should also be sent to the Office of the General Counsel, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and it is requested that copies be transmitted either by means of facsimile transmission to 301-415-3725 or by e-mail to [OGCMailCenter@nrc.gov](mailto:OGCMailCenter@nrc.gov). A copy of the request for hearing and petition for leave to intervene should also be sent to George L. Edgar, Esq., Morgan, Lewis and Bockius, 1800 M Street, NW., Washington, DC 20036, the attorney for the licensee.

For further details with respect to this action, see the application for amendment dated March 22, 2006, as supplemented by letter dated September 12, 2006, which is available for public inspection at the Commission's PDR, located at One White Flint North, File Public Area O1F21, 11555 Rockville Pike (first floor), Rockville, Maryland. Publicly available records will be accessible from the ADAMS Public Electronic Reading Room on the Internet at the NRC Web site, <http://www.nrc.gov/reading-rm/adams.html>. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS, should contact the NRC PDR Reference staff by telephone at 1-800-397-4209, 301-415-4737, or by e-mail to [pdr@nrc.gov](mailto:pdr@nrc.gov).

Dated at Rockville, Maryland, this 21st day of March 2007.

For the Nuclear Regulatory Commission,  
**Mohan C. Thadani,**

*Senior Project Manager, Plant Licensing Branch IV, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.*

[FR Doc. E7-5642 Filed 3-27-07; 5:45 am]

BILLING CODE 7590-01-P

## **NUCLEAR REGULATORY COMMISSION**

### **Advisory Committee on Nuclear Waste; Notice of Meeting**

The Advisory Committee on Nuclear Waste (ACNW) will hold its 178th meeting on April 10-12, 2007, Room T-2B3, 11545 Rockville Pike, Rockville, Maryland.



The schedule for this meeting is as follows:

**Tuesday, April 10, 2007**

**10:30 a.m.–10:35 p.m.: Opening Remarks by the ACNW Chairman (Open)**—The ACNW Chairman will make opening remarks regarding the conduct of today's sessions.

**10:35 a.m.–12:30 p.m.: Status of Overall Geologic Repository Program at Yucca Mountain: Views of the Director of the U.S. Department of Energy's (DOE's) Office of Civilian Radioactive Waste Management (Open)**—Mr. Edward F. (Ward) Sproat will provide the Committee with his views regarding progress being made by DOE in completing a Licence Application necessary for an NRC construction authorization for a geologic repository at Yucca Mountain, Nevada.

**1:30 p.m.–2:30 p.m.: Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste (Open)**—The Committee will hear a briefing by staff from NRC's Office of Nuclear Material Safety and Safeguards (NMSS) regarding the final IAEA document that is intended to provide guidance to policymakers, regulators, and operators concerned with the development and regulatory control of geologic disposal facilities for the management of long-lived radioactive waste.

**2:45 p.m.–3:30 p.m.: Interim Staff Guidance (ISG)—3. Preclosure Safety Analysis—Dose Performance Objectives and Radiation Protection Program to supplement the Yucca Mountain Review Plan (Open)**—The NRC staff from the Division of High-Level Waste Repository Safety (DHLWRS) will brief the Committee on ISG-03, Preclosure Safety Analysis—Dose Performance Objectives and Radiation Protection Program for the staff review of consequence estimates for the preclosure safety analysis and the associated radiation protection program.

**3:30 p.m.–4:30 p.m.: Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing (Open)**—The NRC staff from the Office of Nuclear Regulatory Research (RES) will brief the Committee on the proposed revisions to NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," Chapter 11.3, "Gaseous Waste Management Systems" and Chapter 11.4, "Solid Waste Management Systems," in support of new reactor licensing.

**4:30 p.m.–5:30 p.m.: Discussion of ACNW Letter Reports (Open)**—The

Committee will discuss potential and proposed ACNW letter reports.

**Wednesday, April 11, 2007**

**9 a.m.–9:05 a.m.: Opening Remarks by the ACNW Chairman (Open)**—The ACNW Chairman will make opening remarks regarding the conduct of today's sessions.

**9:05 a.m.–10:30 a.m.: Path Forward on an In-situ Leach (ISL) Rulemaking—Summary of Meetings with Environmental Protection Agency (EPA) and National Mining Association (NMA)—Next Steps (Open)**—The NRC staff from the Office of Federal and State Materials and Environmental Management Programs (FSME) will brief the Committee on their efforts in developing a path forward for a rulemaking on groundwater protection at ISL sites.

**10:45 a.m.–11:45 a.m.: Briefing on MARSAME Manual (Open)**—The NRC staff from the Office of Nuclear Regulatory Research (RES) will brief the Committee on the Multi-Agency Radiation Survey and Assessment of Materials and Equipment Manual (MARSAME) Draft Report for Comment.

**1:30 p.m.–2:30 p.m.: Scope and Methodology of the Government Accountability Office (GAO)'s ongoing review of the Global Nuclear Energy Partnership (GNEP) effort (Open)**—A GAO representative will brief the Committee on the scope and methodology of their current review of the GNEP effort.

**2:45 p.m.–3:30 p.m.: Discussion of ACNW Letter Reports (Open)**—The Committee will continue discussion of potential and proposed ACNW letter reports.

**Thursday, April 12, 2007**

**8:30 a.m.–8:35 a.m.: Opening Remarks by the ACNW Chairman (Open)**—The Chairman will make opening remarks regarding the conduct of today's sessions.

**8:35 a.m.–10:30 a.m.: ACNW White Paper on Igneous Activity (Open)**—A followup discussion from ACNW February 2007 working group meeting on igneous activity, general review of observations, revisions, and summary conclusions for the White Paper on Igneous Activity at Yucca Mountain.

**10:30 a.m.–11:30 a.m.: Update on West Valley Draft Environmental Impact Statement (Open)**—The NRC staff from the Office of Federal and State Materials and Environmental Management Programs (FSME) will update the Committee on new analysis being considered for inclusion in the Draft Environmental Impact Statement for the

West Valley Nuclear Fuel Services Center in New York.

**1 p.m.–2 p.m.: Discussion of ACNW Letter Reports (Open)**—The Committee will continue discussion of potential and proposed ACNW letter reports.

**2 p.m.–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. Discussions may include content of future letters and scope of future Committee Meetings.

Procedures for the conduct of and participation in ACNW meetings were published in the *Federal Register* on October 12, 2006 (71 FR 60196). In accordance with these procedures, oral or written statements may be presented by members of the public. Electronic recordings will be permitted only during those portions of the meeting that are open to the public. Persons desiring to make oral statements should notify Mr. Antonio F. Dias (Telephone 301-415-6805), between 8:15 a.m. and 5 p.m. ET, as far in advance as practicable so that appropriate arrangements can be made to schedule the necessary time during the meeting for such statements. Use of still, motion picture, and television cameras during this meeting will be limited to selected portions of the meeting as determined by the ACNW Chairman. Information regarding the time to be set aside for taking pictures may be obtained by contacting the ACNW office prior to the meeting. In view of the possibility that the schedule for ACNW meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should notify Mr. Dias as to their particular needs.

Further information regarding topics to be discussed, whether the meeting has been canceled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted, therefore can be obtained by contacting Mr. Dias.

ACNW meeting agenda, meeting transcripts, and letter reports are available through the NRC Public Document Room (PDR) at [pdrr@nrc.gov](mailto:pdrr@nrc.gov), or by calling the PDR at 1-800-397-4209, or from the Publicly Available Records System component of NRC's document system (ADAMS) which is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> or [http://www.nrc.gov/reading-rm/doc-collections/ACRS & ACNW Mtg schedules/agendas/](http://www.nrc.gov/reading-rm/doc-collections/ACRS&ACNW_Mtg_schedules/agendas/).

Video Teleconferencing service is available for observing open sessions of

ACNW meetings. Those wishing to use this service for observing ACNW meetings should contact Mr. Theron Brown, ACNW Audiovisual Technician (301-415-8066), between 7:30 a.m. and 3:45 p.m. ET, at least 10 days before the meeting to ensure the availability of this service. Individuals or organizations requesting this service will be responsible for telephone line charges and for providing the equipment and facilities that they use to establish the video teleconferencing link. The availability of video teleconferencing services is not guaranteed.

Dated: March 22, 2007.

Annette L. Vietti-Cook,

Secretary of the Commission.

[FR Doc. E7-5658 Filed 3-27-07; 8:45 am]

BILLING CODE 7590-01-F

## NUCLEAR REGULATORY COMMISSION

### Advisory Committee on Reactor Safeguards (ACRS); Meeting of the ACRS Subcommittee on Digital Instrumentation and Control Systems; Notice of Meeting

The ACRS Subcommittee on Digital Instrumentation and Control Systems will hold a meeting on April 18, 2007, Room T-2B3, 11545 Rockville Pike, Rockville, Maryland.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Wednesday, April 18, 2007—8:30 a.m. Until the Conclusion of Business

The Subcommittee will (1) review DL-1151, Risk-Informed Digital System Reviews and (2) discuss issues related to the SRM assignment on digital systems. The Subcommittee will hear presentations by and hold discussions with representatives of the NRC staff regarding this matter. The Subcommittee will gather information, analyze relevant issues and facts, and formulate proposed positions and actions, as appropriate, for deliberation by the full Committee.

Members of the public desiring to provide oral statements and/or written comments should notify the Designated Federal Official, Mr. Charles G. Hammer, (Telephone: 301-415-7363) five days prior to the meeting, if possible, so that appropriate arrangements can be made. Electronic recordings will be permitted.

Further information regarding this meeting can be obtained by contacting the Designated Federal Official between 8:45 a.m. and 3:30 p.m. (ET). Persons

planning to attend this meeting are urged to contact the above named individual at least two working days prior to the meeting to be advised of any potential changes to the agenda.

Dated: March 22, 2007

Michael Junge,

Acting Branch Chief, ACRS.

[FR Doc. E7-5660 Filed 3-27-07; 8:45 am]

BILLING CODE 7590-01-P

## OVERSEAS PRIVATE INVESTMENT CORPORATION

### April 19, 2007, Public Hearing

*Time and Date:* 2 p.m., Thursday, April 19, 2007.

*Place:* Offices of the Corporation, Twelfth Floor Board Room, 1100 New York Avenue, NW., Washington, DC.

*Status:* Hearing open to the public at 2 p.m.

*Purpose:* Public Hearing in conjunction with each meeting of OPIC's Board of Directors, to afford an opportunity for any person to present views regarding the activities of the Corporation.

#### *Procedures:*

Individuals wishing to address the hearing orally must provide advance notice to OPIC's Corporate Secretary no later than 5 p.m., Friday, April 13, 2007. The notice must include the individual's name, title, organization, address, and telephone number, and a concise summary of the subject matter to be presented.

Oral presentations may not exceed ten (10) minutes. The time for individual presentations may be reduced proportionately, if necessary, to afford all participants who have submitted a timely request to participate an opportunity to be heard.

Participants wishing to submit a written statement for the record must submit a copy of such statement to OPIC's Corporate Secretary no later than 5 p.m., Friday, April 13, 2007. Such statements must be typewritten, double-spaced, and may not exceed twenty-five (25) pages.

Upon receipt of the required notice, OPIC will prepare an agenda for the hearing identifying speakers, setting forth the subject on which each participant will speak, and the time allotted for each presentation. The agenda will be available at the hearing.

A written summary of the hearing will be compiled, and such summary will be made available, upon written request to OPIC's Corporate Secretary, at the cost of reproduction.

**CONTACT PERSON FOR INFORMATION:** Information on the hearing may be

obtained from Connie M. Downs at (202) 336-8438, via facsimile at (202) 218-0136, or via e-mail at [cdowns@opic.gov](mailto:cdowns@opic.gov).

Dated: March 26, 2007

Connie M. Downs,

OPIC Corporation Secretary.

[FR Doc. 07-1538 Filed 3-26-07; 12:25 pm]

BILLING CODE 3210-01-M

## RAILROAD RETIREMENT BOARD

### Proposed Collection; Comment Request

**SUMMARY:** In accordance with the requirement of Section 3506 (c)(2)(A) of the Paperwork Reduction Act of 1995 which provides opportunity for public comment on new or revised data collections, the Railroad Retirement Board (RRB) will publish periodic summaries of proposed data collections.

*Comments are invited on:* (a) Whether the proposed information collection is necessary for the proper performance of the functions of the agency, including whether the information has practical utility; (b) the accuracy of the RRB's estimate of the burden of the collection of the information; (c) ways to enhance the quality, utility, and clarity of the information to be collected; and (d) ways to minimize the burden related to the collection of information on respondents, including the use of automated collection techniques or other forms of information technology.

*Title and purpose of information collection:* Public Service Pension Questionnaires; OMB 3220-0136.

Public Law 95-216 amended the Social Security Act of 1977 by providing, in part, that spouse or survivor benefits may be reduced when the beneficiary is in receipt of a pension based on employment with a Federal, State, or local governmental unit. Initially, the reduction was equal to the full amount of the government pension.

Public Law 98-21 changed the reduction to two-thirds of the amount of the government pension. Public Law 108-203 amended the Social Security Act by changing the requirement for exemption to public service offset, that Federal Insurance Contributions Act (FICA) taxes be deducted from the public service wages for the last 60 months of public service employment, rather than just the last day of public service employment.

Sections 4(a)(1) and 4(b)(1) of the Railroad Retirement Act (RRA) provides that a spouse or survivor annuity should be equal in amount to what the annuitant would receive if entitled to a like benefit from the Social Security

**APPENDIX C: MEETING ATTENDEES**  
**178<sup>TH</sup> ACNW MEETING**  
**APRIL 10–12, 2007**

**ACNW MEMBERS**

Michael Ryan, Chairman  
Allen Croff, Vice Chairman  
James Clarke  
William Hinze  
Ruth Weiner

**ACNW CONSULTANT**

Bruce Marsh

**ACNW STAFF**

Christopher Brown  
Neil Coleman  
Antonio Dias  
John Flack  
Frank Gillespie  
Latif Hamdan  
Michele Kelton  
Michael Lee  
Derek Widmayer

**ATTENDEES FROM THE NUCLEAR REGULATORY COMMISSION**

**APRIL 10, 2007**

M. Weber	NMSS
W. Brach	NMSS
D. Edwards	RES
R. Reeves	NMSS
R. Jervy	NRR
B. Leslie	NMSS
M. Nataraja	NMSS
M. Shah	NMSS
B. Jagannath	NMSS
L. Kokajiko	NMSS
D. Cool	FSME
V. Holahan	RES
T. Ghosh	NMSS
T. Frye	NRR
S. Koenick	NRO
G. Bjorkman	NMSS
R. Nelson	NMSS
W. Ruland	NMSS
E. Hackett	NMSS
P. Reed	RES
E. Leeds	NMSS
S. Whaley	NMSS
M. Rahimi	NMSS

**APPENDIX C  
178<sup>TH</sup> ACNW MEETING  
APRIL 10-12, 2007**

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**ATTENDEES FROM THE NUCLEAR REGULATORY COMMISSION (CONT'D)**

**APRIL 11, 2007 (Cont'd)**

M. Fuhrmann	RES
A. Schwartzman	RES
R. Jervey	NRR
D. Edwards	RES
R. Meck	RES
D. Lewis	RES
J. Firth	FSME
J. Mitchell	RES
E. Peters	NMSS
O. Font	RES
P. Reed	RES
G. Powers	RES

**APRIL 12, 2007**

J. Rubenstone	NMSS
J. Sulima	NMSS
R. Tadesse	FSME

**ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC**

**APRIL 10, 2007**

E. von Tiesenhausen	Clark County
B. Neuman	Carter Ledyard of Milburn for Lincoln County
S. Tetreault	Las Vegas Review-Journal
N. Henderson	Bechtel-SAIC (BSC)
E. Redmond, II	Nuclear Energy Institute (NEI)
A. Simpkins	Center for Nuclear Waste Regulatory Analyses (CNWRA)
C. Shumway	Sen. Ensign
J. Williams	Department of Energy (DOE)
J. Kessler	Electric Power Research Institute (EPRI)
S. Kraft	NEI
D. Siefken	TPMC
R. McCullum	NEI

**APPENDIX C**  
**178<sup>TH</sup> ACNW MEETING**  
**APRIL 10-12, 2007**

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**ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC (CONT'D)**

**APRIL 11, 2007**

E. von Tiesenhausen	Clark County
C. Farrell	NEI
F. Sanchez	Vanderbilt University
M. Aleem	DOE
J. Cook	General Accountability Office (GAO)
C. Kunitz	GAO
F. Carson	Consultant
K. Shin	Consultant
S. Bokhari	DOE

**Via Teleconference With CNWRA**

**APRIL 12, 2007**

E. von Tiesenhausen	Clark County
N. Henderson	BSC
R. McCullum	NEI
W. Bixby	Energy Solutions

**Via Teleconference**

A. McDonough	Sen. Harry Reid's Office
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## **APPENDIX D: FUTURE AGENDA**

The Committee agreed to consider the following topics during its 179<sup>th</sup> meeting, to be held May 16–17, 2007:

- AREVA Spent Nuclear Fuel Recycle Facilities
- ACNW White Paper on Volcanism
- ACNW Meeting with NRC Commissioner Jeffrey S. Merrifield
- Yucca Mountain Preclosure Repository Design: NRC Staff Review Readiness and Views on the Issues
- Proposed Revision to Standard Review Plan Chapter 11.5 for New Reactor Licensing
- Briefing on Interim Staff Guidance (ISG)-04, “Preclosure Safety Analysis—Human Reliability Analysis”
- Briefing on Long-Term Research Activities
- Discussion of Proposed and Potential ACNW letter reports on:
  - Yucca Mountain Preclosure Repository Design: NRC Staff Review Readiness and Views on the Issues
  - Proposed Revision to Standard Review Plan Chapters 11.5 for New Reactor Licensing
  - Interim Staff Guidance (ISG)-04, “Preclosure Safety Analysis—Human Reliability Analysis”
  - Long-Term Research Activities

**APPENDIX E**  
**LIST OF DOCUMENTS PROVIDED TO THE COMMITTEE**

[Note: Some documents listed below may have been provided or prepared for Committee use only. These documents must be reviewed prior to release to the public.]

**MEETING HANDOUTS**

<b><u>AGENDA</u></b> <b><u>ITEM NO.</u></b>	<b><u>DOCUMENTS</u></b>
<b>2</b>	<b>Status of Overall Geologic Repository Program at Yucca Mountain: Views of the Director of the U.S. Department of Energy's (DOE's) Office of Civilian Radioactive Waste Management</b>  1. Yucca Mountain Project Update, presented by Edward F. Sproat, III, DOE ( <b>Viewgraphs</b> )  2. Letter dated April 2, 2007, from Robert Loux, Executive Director, Office of the Governor, Agency for Nuclear Projects, State of Nevada, to The Honorable Dale Klein, Chairman, United States Nuclear Regulatory Commission, re secret substantive meetings with representatives of the license applicant to discuss issues germane to the anticipated DOE license application without issuing public notice ( <b>Handout</b> )
<b>3</b>	<b>Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste</b>  3. Development of International Standards on Geological Disposal, presented by Tim McCartin, DHLWRS ( <b>Viewgraphs</b> )
<b>4</b>	<b>Interim Staff Guidance (ISG)-03: Preclosure Safety Analysis—Dose Performance Objectives and Radiation Protection Program to Supplement the Yucca Mountain Review Plan</b>  4. Draft HLWRS-ISG-03: Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program, presented by Sheena Whaley, DHLWRS ( <b>Viewgraphs</b> )
<b>5</b>	<b>Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing</b>  5. Update on Revision of Standard Review Plant Chapter 11.3 - Gaseous Waste Management System and Chapter 11.4 - Solid Waste Management System, presented by Jean-Claude Dehmel, NRR ( <b>Viewgraphs</b> )

- 8 Path Forward on an In-situ Leach (ISL) Rulemaking—Summary of Meetings with the Environmental Protection Agency (EPA) and the National Mining Association—Next Steps**
- 6. Status of the ISL Rulemaking, presented by Mike Fliegel, FSME (**Viewgraphs**)
  - 7. Typical ISL Wellfield Layout (**Handout**)
- 9 Briefing on the Multi-Agency Radiation Survey and Assessment of Materials and Equipment (MARSAME) Manual**
- 8. Multi-Agency Radiation Survey and Assessment of Materials and Equipment Manual (MARSAME) Draft Report for Comment, presented by Robert Meck, RES (**Viewgraphs**)
- 10 Scope and Methodology of the Government Accountability Office's (GAO's) Ongoing Review of the Global Nuclear Energy Partnership (GNEP) Effort**
- 9. Preliminary Scope and Objectives for a Review of the Global Nuclear Energy Partnership, presented by Joseph Cook, U.S. Government Accountability Office (**Viewgraphs**)
- 14 Update on West Valley Draft Environmental Impact Statement**
- 10. West Valley Demonstration Project, Core Team Process—Consideration of New Decommissioning Alternative, presented by Keith McConnell, DWMEP (**Viewgraphs**)



MEETING NOTEBOOK CONTENTS

TAB

NUMBER (S)

DOCUMENTS

**Agenda, 178<sup>th</sup> ACNW Meeting, April 10-12, 2007, dated March 27, 2007**

**Color Code - 178<sup>th</sup> ACNW Meeting, dated March 27, 2007**

- |          |  |
|----------|--|
| <b>2</b> | <b>Status of Overall Geologic Repository Program at Yucca Mountain: Views of the Director of the U.S. Department of Energy's (DOE's) Office of Civilian Radioactive Waste Management</b> |
|          | 1. Status Report   |
| <b>3</b> | <b>Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste</b>         |
|          | 2. IAEA Safety Standards, Geological Disposal of Radioactive Waste, Safety Requirements, No. WS-R-4  |
|          | 3. FY 2008 Budget Rollout, viewgraphs by Edward F. Sproat, III, dated February 5, 2007   |
| <b>4</b> | <b>Interim Staff Guidance (ISG)-3: Preclosure Safety Analysis—Dose Performance Objectives and Radiation Protection Program to Supplement the Yucca Mountain Review Plan</b>              |
|          | 4. Status Report with Attachments  |
| <b>5</b> | <b>Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing</b>  |
|          | 5. Status Report   |
| <b>6</b> | <b>Path Forward on an In-Situ Leach (ISL) Rulemaking—Summary of Meetings with the Environmental Protection Agency (EPA) and the National Mining Association—Next Steps</b>               |
|          | 6. Status Report   |
|          | 7. NUREG/CR-6870, Consideration of Geochemical Issues in Groundwater Restoration at Uranium In-Situ Leach Mining Facilities (provided on CD)   |

**APPENDIX E**  
**178<sup>TH</sup> ACNW MEETING**  
**APRIL 10-12, 2007**

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- 7                    Briefing on the Multi-Agency Radiation Survey and Assessment of Materials and Equipment (MARSAME) Manual**
  - 8.    Status Report
- 10                  Update on West Valley Draft Environmental Impact Statement**
  - 9.    Status Report