



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

May 29, 2007

MEMORANDUM TO: ACNW Members
ACNW Staff

Michele S. Kelton

FROM: Michele S. Kelton
Technical Secretary, ACNW

SUBJECT: CERTIFIED MINUTES OF THE 177TH MEETING OF THE ADVISORY
COMMITTEE ON NUCLEAR WASTE (ACNW) MARCH 20-22, 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 177th Meeting
March 20-22, 2007

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



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

MEMORANDUM TO: Antonio Dias, Team Lead
Advisory Committee on Nuclear Waste

FROM: Michael T. Ryan, Chairman
Advisory Committee on Nuclear Waste

SUBJECT: PROPOSED MINUTES OF THE 177TH MEETING OF THE
ADVISORY COMMITTEE ON NUCLEAR WASTE (ACNW)
MARCH 20–22, 2007

I certify that, based on my review of these minutes¹, and to the best of my knowledge and belief, I have observed no substantive errors or omissions in the record of this proceeding subject to the comments noted below.

Comments:

Michael T. Ryan, Chairman

May 29, 2007

Date:

⁽¹⁾ Minutes of the 177th Meeting of the ACNW held March 20–22, 2007, dated May 29, 2007.



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

May 29, 2007

MEMORANDUM TO: Michael T. Ryan, Chairman
Advisory Committee on Nuclear Waste & Materials

FROM: *Michele S. Kelton*
Michele S. Kelton, Technical Secretary
Advisory Committee on Nuclear Waste & Materials

SUBJECT: PROPOSED MINUTES OF THE 177TH MEETING OF THE
ADVISORY COMMITTEE ON NUCLEAR WASTE (ACNW)
MARCH 20-22, 2007

Enclosed are the proposed minutes of the 177th meeting of the ACNW. This draft is being provided to give you an opportunity to review the record of this meeting and provide comments. Your comments will be incorporated into the final certified set of minutes as appropriate. Please provide your corrections and comments to me.

Please note that these minutes are being issued in two parts: (1) main body (working copy form) and (2) appendices. The appendices are being sent only to those members who have requested them.

A copy of the certified minutes with appendices will be forwarded to each member

Enclosure: As stated

cc w/o Encl. 2: ACNW Members
ACNW Staff

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CERTIFIED

5/29/07

By MICHAEL T. RYAN

Issued: 5/29/07

**CERTIFIED MINUTES OF THE 177TH MEETING OF THE
ADVISORY COMMITTEE ON NUCLEAR WASTE
MARCH 20–22, 2007**

The U.S. Nuclear Regulatory Commission (NRC) Advisory Committee on Nuclear Waste (ACNW or the Committee) held its 177th meeting on March 20–22, 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 6, 2007 (72 FR 9980) (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 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 convened the meeting at 11:00 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.

II. SAVANNAH RIVER NATIONAL LABORATORY WORKSHOP ON CEMENTITIOUS MATERIALS USED IN WASTE DETERMINATION (OPEN)

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

Professor Barry Scheetz from the Pennsylvania State University briefed the Committee on a workshop about the use of cement in radioactive waste applications that was held in Aiken, South Carolina, on December 12–14, 2006, and hosted by the Savannah River National Laboratory, U.S. Department of Energy (DOE), Vanderbilt University, and the Consortium for Risk Evaluation with Stakeholder Participation.

Professor Scheetz explained that the workshop was structured around five main topics. These are (1) the role of cementitious materials in meeting regulatory and stakeholder requirements for DOE low-level waste disposal, (2) chemical, mineralogical, and contaminant transport properties of cementitious materials, (3) water and gas transport through cementitious materials, (4) degradation mechanisms and test methods, durability criteria, and long-term degradation evaluation, and (5) long-term performance predictions and risk assessment integration of cementitious materials in performance assessment modeling. He also noted that civil engineering applications focus on a timeframe of 25 to 100 years and not the thousands of years required for DOE applications, and that the use of data from civil engineering applications to assess the performance of cementitious materials in waste treatment and disposal applications over thousands of years represented a challenge.

Professor Scheetz indicated that the issues discussed at the workshop related to modeling and perceived needs, including data needs. Modeling issues discussed included (1) the appropriateness of applying models to assess the performance of cement in applications involving long timeframes, (2) the need for an iterative approach so that models can be adapted to changing regulations and technologies, (3) avoidance of conservatism and gross under-estimation of the performance of systems and use of an appropriate degree of complexity and realism, and (4) the need for controlling mechanisms, monitoring, and maintenance. He said that there is a need for an integrated cement durability degradation model, as well as coupling of reaction and transport with mechanical properties, modeling of transport in the vadose zone, and moving toward probabilistic models. He added that data needs include lack of fundamental thermodynamic data, lack of kinetic data, lack of information on redox coupling in an alkaline environment, lack of speciation data for radionuclides, lack of experience with transport in the vadose zone, lack of a common engineering and materials database, lack of a framework for survivability of blended cements, need for better understanding of cracking, and lack of microstructural development and evolution.

Professor Scheetz noted two other important issues that the workshop did not cover. These are the role of organic admixtures in grout and concrete formulations and the failure to understand scaling with respect to energy input into mass concrete.

III. STAKEHOLDER VIEWS ON MODERATOR EXCLUSION (OPEN)

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

Representatives from the Nuclear Energy Institute, the Electric Power Research Institute (EPRI), and H322 Consulting LLC briefed the Committee on their views concerning moderator exclusion in transportation casks for spent nuclear fuel. In particular, they addressed the pros and cons, alternatives, and risk considerations for moderator exclusion. Additionally, staff from DOE's Idaho National Laboratory briefed the Committee on an upcoming license application requesting the approval of the U.S. Nuclear Regulatory Commission (NRC) for the DOE standardized spent nuclear fuel canister relying on the use of moderator exclusion. The presentation to the Committee summarized (1) the reasons that credit for moderator exclusion is needed, (2) the packaging approach for ensuring leak-tightness, (3) the supporting analytical work and testing, and (4) the presenters' understanding of the regulatory issues associated with crediting the canister for remaining leaktight. Following the presentations, Dr. Ruth Weiner led

a followup discussion with the presenters and representatives from the NRC's Office of Nuclear Materials Safety and Safeguards, Division of Spent Fuel Storage and Transportation, on the technical and regulatory issues surrounding the moderator exclusion issue.

The Committee plans to write a letter report to the Commission that summarizes its conclusions and recommendations concerning the use of moderator exclusion for spent fuel transportation casks.

IV. ACNW MEETING WITH NRC COMMISSIONER GREGORY B. JACZKO (OPEN)

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

Commissioner Jaczko gave a public presentation that addressed regulatory issues of interest to him and the Committee. In his introductory remarks, the Commissioner indicated that he wanted to discuss some issues that he found important and that he wanted to hear the Committee's views on these issues and other topics of interest to the Committee. He noted that the ACNW charter should be revised and that the Committee's role should be expanded to include the materials area. He also noted that the ACNW role is to give indepth reviews of staff work and to inform the Commission about important issues. He observed that the Committee has done that in certain areas, such as the high-level waste program. The Commissioner then discussed the following topics:

Risk from Use of Nuclear Materials The Commissioner noted that the use of nuclear materials entails risks and that exposure caused by the use of nuclear materials has immediate health consequences. He said that the NRC is not well recognized for the work that it does within its regulatory authority in the materials area. He said that actions can be taken in this regard, including looking at improvements in human performance or training or other kinds of actions to reduce the incidence of medical exposures and industrial exposures. The Commissioner finds this area of great interest.

Use of Models The Commissioner indicated that ACNW can provide good guidance to the Commission on the use of models in different applications and areas of interest, such as decommissioning, dose analysis and dose assessment, and high-level waste. He said information is needed on appropriateness, limitations, and accuracy of models and that such information should be presented and made accessible to policymakers and stakeholders.

Definition of Nuclear Materials The Commissioner observed that the definition of nuclear materials is currently based on their origin and is not risk-informed, and he said that the definition ought to be based on health and safety impacts and the associated risk. He cited the cleanup at the Heritage site in New Jersey as an example, indicating that site cleanup was limited to uranium and thorium that meet the criterion for licensable material (0.05 percent by weight), but that neither the site cleanup nor the dose calculation considered uranium and thorium that did not meet this criterion, despite the inherent risk to public health and safety. The Commissioner concluded that the definition of nuclear materials should be based on public health and safety and not on whether the material could be useful as a commercial source.

Low-Level Waste The Commissioner discussed the need for a national policy and framework for long-term disposal issues related to low-level waste, including greater-than-Class C waste.

Risk from Dry Cask Storage The Commissioner noted that the NRC staff has done much work recently to evaluate the risks from dry cask storage, including fuel loading, transport, and storage. He indicated that the work was good, but he was surprised that the integrated risk was so low, and he believes that the estimated risk may warrant further examination.

A roundtable discussion of the issues followed the Commissioner's presentation. The Committee members responded positively to the Commissioner's concerns, and the discussion revolved around how the Committee can best use its expertise and experience to support licensing actions by the Commission. Committee Chairman Michael Ryan said that the Committee was pleased that the Commissioners had expressed interest in revising the ACNW charter and expanding ACNW support to the Commission. He noted that ACNW has shifted from the high-level waste program to the materials area, which is reflected in the ACNW Action Plan for fiscal years 2007 and 2008. He observed that there are more than 20,000 Agreement State materials licensees and that ACNW can add value in the materials area. Other topics discussed with the Commissioner by the Committee members included modeling and monitoring; transportation of nuclear materials including testing of transport packages; material and waste definition and classification; disposal of low-activity Class A waste in Resources Conservation and Recovery Act facilities; decommissioning issues; and Yucca mountain licensing support including license application reviews and reviews of specific topics such as seismicity, drift stability, and performance assessment.

The Committee will consider all of Commissioner Jaczko's comments and concerns as it proceeds to implement its action plan for fiscal years 2007 and 2008.

V. UPDATE BY DOE ON THE PROPOSED YUCCA MOUNTAIN REPOSITORY DESIGN (OPEN)

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

The Committee has been periodically briefed on the maturity of the DOE geologic repository design to be used for any license application under Title 10, Part 63, "Disposal of High-Level Radioactive Wastes in a Geologic Repository at Yucca Mountain, Nevada," of the *Code of Federal Regulations* (10 CFR Part 63). The most recent of these briefings was in April 2005 during the Committee's 159th meeting. Since that briefing, DOE has announced its intent once again to rely on a multipurpose waste package disposal canister. (In the 1988 Site Characterization Plan, DOE originally had intended to rely on a multipurpose waste package disposal canister to perform essentially the same functions as the newer (circa 2006) transportation-aging-disposal or TAD canister concept.) TAD-packaged waste will go either directly underground once it arrives at the site or temporarily to one of two thermal aging pads for cooling before geologic emplacement. The use of a TAD canister is expected to simplify waste handling operations (and hence the overall surface facility design) as well as to reduce worker occupational exposures because it eliminates the need for repackaging most of the waste received at the site.

At the 177th meeting, DOE again briefed ACNW on the status of the surface facility design. In that briefing, Mr. Paul Harrington, representing DOE, highlighted the following major changes to the preclosure surface facility design:

- the use of a TAD canister for the disposal of most of the Yucca Mountain radioactive waste
- a reconfigured waste handling process and facility layout to receive TAD canisters
- the introduction of an initial handling facility to receive non-TAD-compatible waste (i.e., naval spent nuclear fuel and vitrified high-level radioactive waste)
- an expanded onsite emergency power generating capacity
- a nonrail waste package transport system that would convey TAD canisters to the repository emplacement horizon

The DOE representative noted that DOE will continue to have a wet handling facility for the 10 percent of the "non-spec" fuel that it expects will need to be repackaged for disposal.¹ The reconfigured facility layout also allows for the construction of expanded canister receipt and closure buildings if additional throughput capacity is needed for non-spec waste. Regarding the maturity of the overall repository design itself, the DOE speaker noted that the conceptual design had been completed (by virtue of the DOE so-called "Critical Decision 1") and the preliminary designs (i.e., those designs to be actually used for licensing) are now under development. These preliminary designs will include structural analyses to ensure that the design satisfies the necessary safety margins. The preliminary design, in conjunction with time and motion studies, will form the basis for the 10 CFR Part 63 integrated preclosure safety assessment to be included in the license application. The DOE representative noted that the Department had no outstanding information needs (requests) directed to the NRC staff in order to complete the preclosure design elements of a 10 CFR Part 63 license application later this fall.

Following the completion of his presentation, Mr. Harrington responded to questions and comments from the ACNW members and staff. The scope of the Committee questions and comments, and Mr. Harrington'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. A key observation made by this speaker during this question and comment session was that DOE had received sufficient information from the NRC staff in the area of surface facility design and that there were no outstanding pre-closure design issues in his judgment. In response to a request from the Committee, Mr. Harrington noted that he could brief the later in the calendar year on the final DOE surface facility design.

¹As a nominal planning assumption, DOE expects that about 10 percent of the waste destined for the proposed geologic repository will be "non-spec" and therefore unacceptable for a TAD-type of waste package canister. The operational goal, therefore, is to have the utilities load 90 percent of the waste into TAD canisters.

VI. ACNW ACTION PLAN FOR FISCAL YEARS 2007 AND 2008 (OPEN)

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

The Committee discussed and approved its Charter and Action Plan for fiscal years 2007 and 2008. The Committee agreed to send the charter and action plan to the Commission.

VII. BRIEFING ON SHIELDALLOY, NEW JERSEY, SITE DECOMMISSIONING PLAN (OPEN)

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

Ms. Rebecca Tadesse and Mr. Ken Kalman from the Division of Waste Management and Environmental Protection (DWMEP) of the Office of Federal and State Materials and Environmental Programs (FSME) provided a briefing on the Shieldalloy Metallurgical Corporation's decommissioning plan (DP) for its Mayfield, New Jersey, site. Participants agreed before the meeting that this briefing would introduce the DP and the conditions at the site and would not address any preliminary results of the staff review.

DWMEP staff representatives provided maps and pictures showing the location of the site and current conditions of the slag and baghouse dust that require cleanup. The representatives explained that Shieldalloy has applied to release the majority of the site under unrestricted conditions and to collect and dispose of the contaminated materials under an engineered disposal structure similar to a uranium mill tailings pile that will be released under restricted conditions with a long-term control license with the NRC. Representatives discussed the unsuccessful attempt by Shieldalloy to sell the slag and baghouse dust.

The representatives explained that seven requests for hearings on the DP license application have been submitted. In addressing questions from the Committee, the staff representatives summarized their views of the main objections contained in the requests for hearings. The representatives presented a brief schedule for the DP review. The next step identified was preparation of the initial requests for additional information, which DWMEP will finish by the end of April. The representatives also indicated that DWMEP will perform an independent dose analysis of the Shieldalloy proposal as part of its DP review.

The Committee agreed not to write a letter to the Commission at the conclusion of this meeting. However, the Committee requested that FSME brief the ACNW again as soon as possible after it completes the initial requests for additional information on the DP.

VIII. UPDATED ELECTRIC POWER RESEARCH INSTITUTE RESPONSE ON POTENTIAL IGNEOUS EVENTS AT YUCCA MOUNTAIN (OPEN)

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

Dr. Meghan Morrissey (Colorado School of Mines and representing EPRI) briefed the Committee in a presentation that responded to a January 2007 report by the Center for Nuclear Waste Regulatory Analyses ("Review of Two Electric Power Research Institute Technical Reports on the Potential Igneous Processes Relevant to the Yucca Mountain Repository"; NRC ADAMS Accession No. ML070190134) that had reviewed two EPRI volcanism reports. Dr. Morrissey organized her talk in response to specific comments on topics that included the nature of magma in a drift, heat loss (including magma solidification and in-drift thermal calculations), and magma dynamics. In conclusion, Dr. Morrissey provided the following summary:

EPRI believes that the conceptual model derived and analyses conducted by EPRI since 2004 are based on observations made routinely at volcanoes and on data from appropriate analogs of future Yucca Mountain volcanism. Contrary to the position put forward by the NRC and their consultants, EPRI's analyses are consistent with fundamental physical and chemical processes, and EPRI's igneous consequences at Yucca Mountain are indeed technically defensible.

The presentation slides, discussion, and transcript of this briefing will assist ACNW in preparing a final version of the white paper on igneous activity. This white paper will provide an analysis of the current state of knowledge of igneous activity which the Commission can use as a technical basis for decisionmaking.

IX. ACNW WHITE PAPER ON VOLCANISM (OPEN)

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

This session was a followup of the discussion at the February working group meeting on volcanism at Yucca Mountain. Dr. William Hinze led the discussion, which included a general overview of observations, revisions, and summary conclusions for the white paper. The draft white paper placed on the Internet did not include conclusions because the authors were awaiting feedback during the working group from the many interested parties. After receiving this feedback, the authors drafted a preliminary set of conclusions, which the members reviewed and discussed. The Committee positively received these preliminary conclusions. The Committee also discussed a summary table of igneous processes, which it is considering for inclusion in the white paper. Copies of this table were emailed to interested parties, who were asked to provide any additional input within 1 week.

The Committee has advised the team of two ACNW members, a consultant, and a staffer to proceed with preparing a final draft of the white paper on igneous activity for review during the April meeting.

The meeting adjourned at 9.55 a.m. on Thursday, March 22, 2007.

inaccessible or underground electrical cables, and

Require that addressees submit a written response to the NRC in accordance with NRC regulations in Title 10 of the Code of Federal Regulations Section 50.54(f).

This **Federal Register** notice is available through the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession Number ML070470317.

DATES: The GL was issued on February 7, 2007.

ADDRESSES: Not applicable.

FOR FURTHER INFORMATION CONTACT:

Kimberley Corp. (301) 415-1091 or by email kar1@nrc.gov or Matthew McConnell at (301) 415-1597 or e-mail mxm4@nrc.gov.

SUPPLEMENTARY INFORMATION: NRC

Generic Letter 2007-01 may be examined, and/or copied for a fee, at the NRC's Public Document Room (PDR) at One White Flint North, 11555 Rockville Pike (first floor), Rockville, Maryland. Publicly available records will be accessible electronically from the ADAMS Public Electronic Reading Room on the Internet at the NRC Web site, <http://www.nrc.gov/NRC/ADAMS/index.html>. The ADAMS number for the GL is ML070360665.

If you do not have access to ADAMS or if you have problems in accessing the documents in ADAMS, contact the NRC Public Document Room reference staff at 1-800-397-4209 or 301-415-4737 or by e-mail to pdr@nrc.gov.

Dated at Rockville, Maryland, this 20th day of February 2007.

For The Nuclear Regulatory Commission.

Theodore R. Quay,

Acting Director, Division of Policy and Rulemaking, Office of Nuclear Reactor Regulation.

[FR Doc. E7-3854 Filed 3-5-07; 8:45 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 177th meeting on March 20-22, 2007, Room T-2B3, 11545 Rockville Pike, Rockville, Maryland.

The schedule for this meeting is as follows:

Tuesday, March 20, 2007

11 a.m.-11:05 a.m.: Opening Remarks by the ACNW Chairman (Open)—The ACNW Chairman will make opening

remarks regarding the conduct of today's sessions.

11:05 a.m.-12 p.m.: Savannah River National Laboratory (SRNL) Workshop on Cementitious Materials Used in Waste Determination

Activities (Open)—Professor Barry Scheetz from the Pennsylvania State University will brief the Committee on a SRNL-sponsored workshop that examined the use of cementitious materials in radioactive waste management applications. This workshop was held on December 12-14, 2006, in Aiken, South Carolina.

1 p.m.-2:30 p.m.: Stakeholder Views on Moderator Exclusion (Open)—Representatives from the Nuclear Energy Institute (NEI), the Electric Power Research Institute (EPRI), and H322 Consulting LLC will brief the Committee on their views on the moderator exclusion issue in transportation canisters for spent nuclear fuel.

2:45 p.m.-3:30 p.m.: Idaho National Laboratory (INL) / U.S. Department of Energy (DOE) Views on Moderator Exclusion (Open)—An INL/DOE representative will brief the Committee on an upcoming license application requesting NRC approval for the DOE Standardized Spent Nuclear Fuel Canister relying on the use of moderator exclusion.

3:30 p.m.-4:30 p.m.: Round Table Discussion on Moderator Exclusion (Open)—ACNW Member Ruth Weiner will lead a follow up discussion with the previous presenters and representatives from NRC's Office of Nuclear Materials Safety and Safeguards (NMSS), Division of Spent Fuel Storage and Transportation (SFST), on the technical and regulatory issues surrounding the moderator exclusion issue.

4:30 p.m.-5:30 p.m.: ACNW Meeting with NRC Commissioner Gregory B. Jaczko (Open)—Commissioner Jaczko will address the Committee on current topics and issues of common interest.

Wednesday, March 21, 2007

8:30 a.m.-8:45 a.m.: Opening Remarks by the ACNW Chairman (Open)—The ACNW Chairman will make opening remarks regarding the conduct of today's sessions.

8:35 a.m.-10 a.m.: Update by the U.S. Department of Energy (DOE) on the Proposed Yucca Mountain Repository Design (Open)—A Department representative will update the Committee on the status of DOE design activities for surface facilities for the proposed geologic repository. Briefing is also expected to examine repository design options for spent

nuclear fuel handling in light of the TAD (transportation-aging-disposal) canister decision-making.

10:15 a.m.-12 p.m.: ACNW Action Plan for Fiscal Years 2007 and 2008 (Open)—The Committee will discuss and approve its Action Plan for Fiscal Years 2007 and 2008.

1 p.m.-2 p.m.: Briefing on Shieldalloy, New Jersey, Site Decommissioning Plan (Open)—Staff from the Office of Federal and State Materials and Environmental Management Programs (FSME) will brief the Committee on the Decommissioning Plan for the Shieldalloy Metallurgical Corporation's complex decommissioning site.

2 p.m.-3 p.m.: Updated EPRI Response on Potential Igneous Event at Yucca Mountain (Open)—NRC staff recently reviewed reports prepared by EPRI on magma interactions with the proposed Yucca Mountain repository. EPRI representatives will provide the Committee with their comments on the staff's review.

3:15 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.

Thursday, March 22, 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.-11:30 a.m.: ACNW White Paper on Volcanism (Open)—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.

12:30 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 the ACNW Action Plan as well as 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 pdr@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).

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: February 28, 2007.

Andrew L. Bates,

Advisory Committee Management Officer.
[FR Doc. E7-3863 Filed 3-5-07; 8:45 am]
BILLING CODE 7590-01-P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Nuclear Waste; Meeting on Planning and Procedures; Notice of Meeting

The Advisory Committee on Nuclear Waste (ACNW) will hold a Planning and Procedures meeting on March 20, 2007, Room T-2B1, 11545 Rockville Pike, Rockville, Maryland. The entire meeting will be open to public attendance, with the exception of a portion that may be closed pursuant to 5 U.S.C. 552b(c)(2) and (6) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of ACNW, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.

The agenda for the subject meeting shall be as follows:

Tuesday, March 20, 2007—8:30 a.m.—10:30 a.m.

The Committee will discuss proposed ACNW activities and related matters. The purpose of this meeting is to 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. Antonio F. Dias (Telephone: 301/415-6805) between 8:15 a.m. and 5 p.m. (ET) five days prior to the meeting, if possible, so that appropriate arrangements can be made. Electronic recordings will be permitted only during those portions of the meeting that are open to the public.

Further information regarding this meeting can be obtained by contacting the Designated Federal Official between 8:15 a.m. and 5 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 in the agenda.

Dated: February 27, 2007.

Antonio F. Dias,

Acting Branch Chief, ACNW.

[FR Doc. E7-3864 Filed 3-5-07; 8:45 am]

BILLING CODE 7590-01-P

NUCLEAR REGULATORY COMMISSION

Sunshine Act Federal Register Notice

AGENCY HOLDING THE MEETINGS: Nuclear Regulatory Commission

DATE: Weeks of March 5, 12, 19, 26, April 2, 9, 2007.

PLACE: Commissioners' Conference Room, 11555 Rockville Pike, Rockville, Maryland.

STATUS: Public and Closed.

MATTERS TO BE CONSIDERED:

Week of March 5, 2007

Monday, March 5, 2007

1 p.m.

Meeting with Department of Energy on New Reactor Issues (Public Meeting).

This meeting will be webcast live at the Web address—<http://www.nrc.gov>.

Wednesday, March 7, 2007

9:30 a.m.

Briefing on Office of Nuclear Security and Incident Response (NSIR) Programs, Performance, and Plans (Public Meeting). (Contact: Miriam Cohen, 301 415-0260.)

This meeting will be webcast live at the Web address—<http://www.nrc.gov>.

1 p.m.

Discussion of Security Issues (Closed—Ex. 1 and 3).

Thursday, March 8, 2007

9:55 a.m.

Affirmation Session (Public Meeting) (Tentative)

a. Exelon Generation Company, LLC (Early Site Permit for Clinton ESP) (Tentative).

10 a.m.

Briefing on Office of Nuclear Materials Safety and Safeguards (NMSS) Programs, Performance, and Plans (Public Meeting). (Contact: Gene Peters, 301 415-5248.)

This meeting will be webcast live at the Web address—<http://www.nrc.gov>.

1 p.m.

Briefing on Office of Nuclear Reactor Regulation (NRR) Programs, Performance, and Plans (Public Meeting). (Contact: Reginald Mitchell, 301 415-1275.)

This meeting will be webcast live at the Web address—<http://www.nrc.gov>.

Week of March 12, 2007—Tentative

There are no meetings scheduled for the Week of March 12, 2007

Week of March 19, 2007—Tentative

Tuesday, March 20, 2007

1:30 p.m.

Briefing on Office of Information Services (OIS) Programs, Performance, and Plans (Public Meeting). (Contact: Edward Baker, 301 415-8700.)



APPENDIX B

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

February 27, 2007

AGENDA
177th ACNW MEETING
MARCH 20-22, 2007

TUESDAY, MARCH 20, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

1) 11:00 - 11:05 A.M. 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) 11:05 - 12:00 P.M. Savannah River National Laboratory (SRNL) Workshop on Cementitious Materials Used in Waste Determination Activities (Open) (AGC/LSH)
11:12 - 12:14
Professor Barry Scheetz from the Pennsylvania State University will brief the Committee on a SRNL-sponsored workshop that examined the use of cementitious materials in radioactive waste management applications. This workshop was held on December 12-14, 2006, in Aiken, South Carolina.

12:14 - 1:00 P.M. ***LUNCH***

3) 1:00 - 2:30 P.M. Stakeholder Views on Moderator Exclusion (Open) (RFW/CLB)
1:04 - 2:18
Representatives from the Nuclear Energy Institute (NEI), the Electric Power Research Institute (EPRI), and H322 Consulting LLC will brief the Committee on their views on the moderator exclusion issue in transportation canisters for spent nuclear fuel.

2:15 - 3:04 P.M. ***BREAK***

4) 2:45 - 3:30 P.M. Idaho National Laboratory (INL) / U.S. Department of Energy (DOE) Views on Moderator Exclusion (Open) (RFW/CLB)
2:18 - 2:54
An INL/DOE representative will brief the Committee on an upcoming license application requesting NRC approval for the DOE Standardized Spent Nuclear Fuel Canister relying on the use of moderator exclusion.

5) 3:30 - 4:30 P.M. Round Table Discussion on Moderator Exclusion (Open) (RFW/CLB)
3:09 - 4:06
ACNW Member Ruth Weiner will lead a follow up discussion with the previous presenters and representatives from NRC's Office of Nuclear Materials Safety and Safeguards (NMSS), Division of Spent Fuel Storage and Transportation (SFST), on the technical and regulatory issues surrounding the moderator exclusion issue.

Break 11:12 - 4:30

- 6) ~~4:30~~ - 5:30 P.M. **ACNW meeting with NRC Commissioner Gregory B. Jaczko**
 (Open) (MTR/LSH)
 Commissioner Jaczko will address the Committee on current topics and issues of common interest.

~~5:30~~ P.M. **Adjourn**

WEDNESDAY, MARCH 21, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 7) 8:30 - 8:35 A.M. **Opening Remarks by the ACNW Chairman** (Open) (MTR/MPL)
 The Chairman will make opening remarks regarding the conduct of today's sessions.

- 8) 8:35 - 10:00 A.M. **Update by the U.S. Department of Energy (DOE) on the Proposed Yucca Mountain Repository Design** (Open)
 (WJH/MPL)
 A Department representative will update the Committee on the status of DOE design activities for surface facilities for the proposed geologic repository. Briefing is also expected to examine repository design options for spent nuclear fuel handling in light of the TAD (transportation-aging-disposal) canister decision-making. *Handwritten: Handwritten*

10:00 - 10:15 A.M. *****BREAK*****

- 9) 10:15 - ~~12:00~~ P.M. **ACNW Action Plan for Fiscal Years 2007 and 2008** (Open)
 (MTR/JHF)
 The Committee will discuss and approve its Action Plan for Fiscal Years 2007 and 2008. *Handwritten: ACNW*

~~12:00~~ - 1:00 P.M. *****LUNCH*****

- 10) 1:00 - 2:00 P.M. **Briefing on Shieldalloy, New Jersey, Site Decommissioning Plan** (Open) (JHC/DAW)
 Staff from the Office of Federal and State Materials and Environmental Management Programs (FSME) will brief the Committee on the Decommissioning Plan for the Shieldalloy Metallurgical Corporation's complex decommissioning site. *Handwritten: Kamin*

- 11) 2:00 - ~~3:00~~ P.M. **Updated EPRI Response on Potential Igneous Event at Yucca Mountain** (Open) (WJH/NMC)
 NRC staff recently reviewed reports prepared by EPRI on magma interactions with the proposed Yucca Mountain repository. EPRI representatives will provide the Committee with their comments on the staff's review. *Handwritten: Review*

3:00 - ~~3:45~~ P.M. *****BREAK*****

12) ~~3:15 - 5:30 P.M.~~

~~3:15 - 5:30~~

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.

~~5:30 P.M.~~

~~4:45~~

Adjourn

THURSDAY, MARCH 22, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

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

~~8:30~~

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

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

14) 8:35 - 11:30 A.M.

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.

~~11:30 - 12:30 P.M.~~

*****LUNCH*****

15) ~~12:30 - 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.

~~5:30 P.M.~~

~~4:45~~

Adjourn

NOTES:

- Presentation time should not exceed 50 percent of the total time allocated 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.

APPENDIX C: MEETING ATTENDEES
177TH ACNW MEETING
MARCH 20–22, 2007

ACNW MEMBERS

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

ACNW CONSULTANT

Bruce Marsh (via telecon)

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

MARCH 20, 2007

P. Reed	RES
P. Wheatley	National Spent Nuclear Fuel Program
N. Osgood	NMSS
R. Nelson	NMSS
D. Damon	NMSS
L. Campbell	NMSS
Z. Li	NRR
B. White	NMSS
E. Hackett	NMSS
A. Barto	NMSS
S. Whaley	NMSS
D. Tang	NMSS
K. Hardin	NMSS
E. Supko	ERI
J. Chuang	NMSS
M. Conty	Platts
J. Wray	NMSS
J. Cuadrado	NMSS
J. Strosnider	NMSS
E. Leedes	NMSS
G. Bjorkman	NMSS
M. Rahimi	NMSS
B. Tripathi	NMSS
N. Jordan	NMSS

**APPENDIX C
177TH ACNW MEETING
MARCH 20-22, 2007**

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ATTENDEES FROM THE NUCLEAR REGULATORY COMMISSION

MARCH 21, 2007

G. Peters	NMSS
P. Harrington	DOE
B. Ibrahim	NMSS
S. Lai	RES
R. Johnson	NMSS
B. Jagannath	NMSS
M. Wong	NMSS
K. Lany	NMSS
J. Rubenstone	NMSS
J. Shaffner	FSME
R. Reeves	NMSS
A. Wong	NMSS
J. Hayes	FSME
R. Johnson	FSME
M. Clark	OGC
J. Guttman	NMSS
K. Kalman	FSME
R. Lewis	NMSS
R. Hill	NMSS
P. Justus	NMSS
R. Tadesse	FSME
D. Schmidt	FSME
N. Orlando	FSME

MARCH 22, 2007

N. Osgood	NMSS
S. Lai	RES
J. Monninger	RES
Y. Chang	RES
J. Foster	RES
B. Ibrahim	NMSS
B. Brach	NMSS
E. Hackett	NMSS
W. Ruland	NMSS
J. Rubenstone	NMSS
B. Hill	NMSS

**APPENDIX C
177TH ACNW MEETING
MARCH 20-22, 2007**

-3-

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC

MARCH 20, 2007

E. von Tiesenhausen	Clark County
J. Pyi	Nuclear Waste Technical Review Board (NWTRB)
M. Knapp	INL-Talisman
N. Henderson	BSC
W. Hodges	H322 Consulting
A. Machiels	Electric Power Research Institute (EPRI)
S. Kraft	Nuclear Energy Institute (NEI)
J. Kessler	EPRI
D. Blaney	DOE
R. Best	JAI Corp.
b. Miles	Naval Nuclear Propulsion Program
c. Bella	NWTRB
W. Bixby	Energy Solutions

MARCH 21, 2007

N. Henderson	BSC
E. von Tiesenhausen	Clark County
L. Barrett	Self
J. Kessler	EPRI
M. Morrissey	EPRI/Colorado School of Mines
R. McCullen	NEI
B. Neuman	Carter Ledyard of Milburn for Lincoln County
A. McDonough	Senator Harry Reid
D. Semick	Government Accountability Office (GAO)
L. Reiter	NWTRB Consultant
R. Haemer	Pillsbury Winthrop Shw P. Haemer
D. Smith	Shieldalloy Metallurgical Corp.

Via Teleconference With CNWRA

J. Stamatakos, et al.

MARCH 22, 2007

E. von Tiesenhausen	Clark County
L. Reiter	NWTRB, Consultant
T. Angerhofer	DOE/Naval Reactors
K. Canavan	EPRI
N. Henderson	BSC
B. Mrowca	ISC
M. Morrissey	Colorado School of Mines
D. Semick	GAO

APPENDIX D: FUTURE AGENDA

The Committee agreed to consider the following topics during its 178th meeting, to be held April 10–12, 2007:

- 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
- Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste
- Interim Staff Guidance (ISG)-3: Preclosure Safety Analysis—Dose Performance Objectives and Radiation Protection Program to supplement the Yucca Mountain Review Plan
- Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing
- Path Forward on an In-situ Leach (ISL) Rulemaking - Summary of Meetings with EPA and NMA—Next Steps
- Briefing on Multi-Agency Radiation Survey and Assessment of Materials and Equipment (MARSAME) Manual
- Scope and Methodology of the Government Accountability Office (GAO)'s Ongoing Review of the Global Nuclear Energy Partnership (GNEP) Effort
- ACNW White Paper on Volcanism
- Update on West Valley Draft Environmental Impact Statement
- Discussion of Proposed and Potential ACNW letter reports on:
 - Use of Moderator Exclusion in the Licensing of Spent Fuel Transportation Casks
 - Staff Briefing on International Atomic Energy Agency (IAEA) Requirements Document WS-R-4: Design and Operation of Facilities for Geological Disposal of Radioactive Waste
 - Interim Staff Guidance (ISG) - 3: Preclosure Safety Analysis - Dose Performance Objectives and Radiation Protection Program
 - Proposed Revision to Standard Review Plan Chapters 11.3 and 11.4 for New Reactor Licensing
 - Briefing on MARSAME Manual

**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

<u>AGENDA ITEM NO.</u>	<u>DOCUMENTS</u>
1	<u>Savannah River National Laboratory (SRNL) Workshop on Cementitious Materials Used in Waste Determination</u> <ol style="list-style-type: none">1. Cementitious Materials for Waste Treatment, Disposal, Remediation and Decommissioning Workshop, presented by Barry E. Scheetz, Professor of Civil and Environmental Engineering, The Pennsylvania State University [Viewgraphs]
3	<u>Stakeholder Views on Moderator Exclusion</u> <ol style="list-style-type: none">2. Moderator Exclusion, presented by Wayne Hodges, H322 Consulting [Viewgraphs]3. Criticality Control in Used Fuel Storage and Transportation, presented by Everett L. Redmond II, Nuclear Energy Institute [Viewgraphs]4. Spent fuel Transportation — Criticality Considerations, presented by Albert J. Machiels, Electric Power Research Institute [Viewgraphs]
4	<u>Idaho National Laboratory (INL)/U.S. Department of Energy (DOE) Views on Moderator Exclusion</u> <ol style="list-style-type: none">5. Leaktighness of DOE Standardized SNF Canister and Transportation Criticality Safety, presented by B. W. Carlsen, Environmental Management [Viewgraphs]6. Moderator Exclusion Fundamentals, presented by Gordon Bjorkman, NMSS [Viewgraphs]
8	<u>Update by the U.S. Department of Energy on the Proposed Yucca Mountain Repository Design</u> <ol style="list-style-type: none">7. Status of Yucca Mountain Repository Design, presented by Paul Harrington, DOE [Viewgraphs]
10	<u>Briefing on Shieldalloy, New Jersey, Site Decommissioning Plan</u> <ol style="list-style-type: none">8. Shiedalloy Metallurgical Corporation Decommissioning, presented by Ken Kalman, FSME [Viewgraphs]

APPENDIX E
177TH ACNW MEETING
MARCH 20-21, 2007

-2-

9. Letter dated March 16, 2007, from Andrew D. Reese, Deputy Attorney General, Office of the Attorney General, Department of Law and Public Safety, State of New Jersey, to Mr. Antonio F. Dias, Advisory Committee on Nuclear Waste, NRC, re Written Comment on Behalf of NJDEP to the Advisory Committee on Nuclear Waste regarding Its March 21, 2007, Meeting on the Shieldalloy, New Jersey, Site Decommissioning Plan enclosing report to ACNW regarding ACNW's March 21, 2007, meeting on the Shieldalloy, New Jersey, site decommissioning plan

Enclosures:

- Declaration of Michael A. Malusis
- Declaration of Steven Spayd
- Declaration of Jennifer Goodman
- Declaration of John Burke
- Declaration of Timothy Disbrow
- Declaration of Donna L. Gaffigan
- Letter from Michael R. Morgenstern, Shieldalloy Corporation, to Ms. Susan Savoca, NJDEP - ORS re results of EP toxicity and reactivity analyses of Shieldalloy Corp. by-product materials and soil samples as requested

11

Updated EPRI Response on Potential Igneous Event at Yucca Mountain

10. Updated EPRI Response on Potential Igneous Events at Yucca Mountain, presented by Meghan Morrissey, EPRI [**Viewgraphs**]

MEETING NOTEBOOK CONTENTS

<u>TAB</u>	<u>DOCUMENTS</u>
	Agenda, 177 th ACNW Meeting, March 20-22, 2007, dated February 27 2007)
	Color code - 178 th ACNW Meeting, dated March 29, 2007
2	<u>Savannah River National Laboratory (SRNL) Workshop on Cementitious Materials Used in Waste Determination Activities</u>
	1. Status Report w/Attachments
3-5	<u>(1) Stakeholder Views on Moderator Exclusion A89ND (2) Idaho National Laboratory (INL)/U.S. Department of Energy (DOE) Views on Moderator Exclusion, AND (3) Round Table discussion on Moderator Exclusion</u>
	2. Status Report
6	<u>ACNW Meeting with NRC Commissioner Gregory B. Jaczko</u>
	3. Status Report
8	<u>Update by the U.S. Department of Energy (DOE) on the Proposed Yucca Mountain Repository Design</u>
	4. Status Report with Attachments
10	<u>Briefing on Shiedalloy, New Jersey, Site Decommissioning Plan</u>
	5. Status Report with Attachments
11	<u>Updated EPRI Response on Potential igneous Event at Yucca Mountain</u>
	6. Status Report

ADVISORY COMMITTEE ON NUCLEAR WASTE
177th FULL COMMITTEE MEETING

March 20-22, 2007

March 21, 2007

ATTENDEES PLEASE SIGN BELOW

PLEASE PRINT (CLEARLY)

NAME

NRC STAFF

1 CLEVE PETERS

NMSS/DHLWRS

2 PAUL HARRINGTON

US DOE / OCRWM

3 ~~LOU BROWN~~

4 Bill Ibrahim

NSRC / HLWRS

5 Sandra Lei

RES / DRASP / PRE

6 ROBERTA JOHNSON

NMSS / HLWRS

7 Banad Jagannathan

NMSS / HLWRS

8 Melanie Wang

NMSS / HLWRS

9 Phil Kay

NMSS / HLWRS

10 James Rubenstein

NMSS / HLWRS

11 T. Shaffer

FSME / ~~DRASP~~

12 Rosemary Reeves

NMSS / HLWRS

13 Albert Wang

NMSS / HLWRS

14 John Hays

FSME / DRASP / ADCB

15 Robert L. Johnson

FSME / DRASP

16 Michael Clark

OGC

17 Robert Haamer

Pillsbury Winthrop Shaw R. Han

18 Jack Guttman

NMSS

David Smith

Shubley Metallurgical Corp

ADVISORY COMMITTEE ON NUCLEAR WASTE
177th FULL COMMITTEE MEETING

March 20-22, 2007

March 21, 2007

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NRC STAFF

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Ken Kalman

NRC/ES&E/DWMER

Robert Lewis

NRC/NMSS/STST

Bryan Hill

NMSS/ITWAS

PAUL JUSTUS

NMSS/HLIRS 200-315 pm

ADVISORY COMMITTEE ON NUCLEAR WASTE
176th FULL COMMITTEE MEETING

March 20-22, 2007

TODAY'S DATE:
March 21, 2007

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<u>E. TIESENHUISER</u>	<u>CHERRY COUNTY</u>
<u>Lake Barrett</u>	<u>Self</u>
<u>John Keeler</u>	<u>EPRI</u>
<u>Meghan Morrissey</u>	<u>EPRI / Colorado School of Mines</u>
<u>Norman Henderson</u>	<u>BSC</u>
<u>Rod McCullen</u>	<u>NEI</u>
<u>Barry Neuman</u>	<u>Carter Learyard & Milburn for Lincoln County</u>
<u>Alex McDonough</u>	<u>Senator Harry Reid</u>
<u>DANIEL SEMICK</u>	<u>GAD</u>
<u>Rebecca Tadesse</u>	<u>FSME</u>
<u>Nick Orcaund</u>	<u>FSME</u>
<u>Duane Schmidt</u>	<u>FSME</u>
<u>Leon Reiter</u>	<u>NWTRB Consultant</u>

[Faint handwritten notes and signatures at the bottom of the page]

ADVISORY COMMITTEE ON NUCLEAR WASTE
177th FULL COMMITTEE MEETING

March 20-22, 2007

March 20, 2007

ATTENDEES PLEASE SIGN BELOW

PLEASE PRINT (CLEARLY)

NAME

NRG STAFF

Phil Ford

NPES/OFFICE

Phyllis Wheatley

National SNF Program

Nancy Osgood

NMSS/SFST

Bob Nelson

NMSS/CFST

Dennis Damon

NMSS/FCIS

LARRY Campbell

NMSS/SFST

Zhian Li

NRR

Bernie White

NMSS/SFST

Ed Hackett

NMSS/SFST

Andrew Roth

NMSS/SFST

Sheera Whaley

NMSS/ALWS

David Tang

NMSS/SFST

Kim Hardin

NMSS/SFST

Eugene Supko

ERI

Jerry Chuang

NMSS/SFST

Margaret Conley

Platts

John W. Hill

NMSS/SFST

Jose Quindoch

NMSS/SFST

J. STROSMER

NMSS

E. Lecker

NMSS

**ADVISORY COMMITTEE ON NUCLEAR WASTE
177th FULL COMMITTEE MEETING**

March 20-22, 2007

March 20, 2007

ATTENDEES PLEASE SIGN BELOW

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NRC STAFF

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GORDON BURKMAN

NRC/SFS

ADVISORY COMMITTEE ON NUCLEAR WASTE
176th FULL COMMITTEE MEETING

March 20-22, 2007

TODAY'S DATE:
March 20, 2007

ATTENDEES PLEASE SIGN BELOW

PLEASE PRINT (CLEARLY)

	<u>NAME</u>	<u>ORGANIZATION</u>
1	E. P. JENSEN	CLARK COUNTY
2	JOHN H. PYE	NWTRB
3	MALCOLM KNAPP	INL - TALISMAN
4	Norman Henderson	BSC
5	Mevaj Rahimi	NRC / NMSS
6	Wayne Hodges	H322 Consulting
	Albert MACHIELS	EPRI
8	STEVEN KRAFT	NEI
9	John Kessler	EPRI
10	DICK BLANEY	DOE
11	BOB TRIPATHI	NRC / NMSS
12	NATREON JORDAN	NRC / NMSS
13	John Best	JAI Corporation
14	Barry Miles	Naval Nuclear Propulsion Program
15	CARL DI BELLA	NWTRB
16	WILLIS BUNNY	ENERVUM SOLUTIONS
17		
18		

ADVISORY COMMITTEE ON NUCLEAR WASTE
177th FULL COMMITTEE MEETING

March 20-22, 2007

32
March 24, 2007

ATTENDEES PLEASE SIGN BELOW

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NAME

NRC STAFF

1 Nancy Osgood

NWSS / SFST

2 Sandra Lai

RES / DRASP

3 John Manning

RES / DRASP

4 Yung Hsia James Chang

RES / DRASP

5 Amy Jay

RES / DRASP

6 Baker Ibrahim

NWSS / HCURS

Bill Brock

NRC / SFST

8 Ed Bennett

NAC / SFST

9 Bill Pauland

NRC / SFST

10 James Robinson

NRC / NWSS / HCURS

11 Brian Hill

NRC / NWSS / HCURS

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ADVISORY COMMITTEE ON NUCLEAR WASTE
176th FULL COMMITTEE MEETING

March 20-22, 2007

TODAY'S DATE:

March 21, 2007

22

ATTENDEES PLEASE SIGN BELOW

PLEASE PRINT (CLEARLY)

NAME

ORGANIZATION

<u>NAME</u>	<u>ORGANIZATION</u>
1 <u>E. STIBSEN MAUSSEN</u>	<u>CLARK COUNTY</u>
2 <u>Leo Reiter</u>	<u>NWTRB Consultant</u>
3 <u>Todd Angerhofer</u>	<u>DOE -Naval Reactors</u>
4 <u>Norman Henderson</u>	<u>BSC</u>
5 <u>KEN CANAVAN</u>	<u>EPRI</u>
6 <u>Bruce Meadows</u>	<u>ISC</u>
<u>Meghan Moroney</u>	<u>Colorado School Mines</u>
8 <u>DANIEL SEMICK</u>	<u>GAO</u>
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