



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

July 30, 2007

MEMORANDUM TO: ACNW&M Members  
ACNW&M Staff

FROM:

*Michele S. Kelton*

' Michele S. Kelton  
Technical Secretary, ACNW&M

SUBJECT:

CERTIFIED MINUTES OF THE 180<sup>TH</sup> MEETING OF THE ADVISORY  
COMMITTEE ON NUCLEAR WASTE AND MATERIALS (ACNW&M)  
JUNE 19-21, 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 180<sup>th</sup> Meeting  
June 19-21, 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 AND MATERIALS  
WASHINGTON, D.C. 20555-0001

July 30, 2007

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

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

SUBJECT: PROPOSED MINUTES OF THE 180<sup>TH</sup> MEETING OF THE ADVISORY  
COMMITTEE ON NUCLEAR WASTE AND MATERIALS (ACNW&M)  
JUNE 19-21, 2007

Enclosed are the proposed minutes of the 180<sup>th</sup> meeting of the ACNW&M. 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 &M Members  
ACNW &M Staff



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

MEMORANDUM TO: Antonio Dias, Branch Chief  
Advisory Committee on Nuclear Waste and Materials

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

SUBJECT: PROPOSED MINUTES OF THE 180<sup>TH</sup> MEETING OF THE  
ADVISORY COMMITTEE ON NUCLEAR WASTE AND  
MATERIALS (ACNW&M) JUNE 19–21, 2007

I certify that, based on my review of these minutes<sup>1</sup>, 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

A handwritten signature in cursive script, appearing to read "Michael T. Ryan", is written below the printed name.

July 30, 2007

Date:

<sup>(1)</sup> Minutes of the 180<sup>th</sup> Meeting of the ACNW&M held June 19–21, 2007, dated July 30, 2007.

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**CERTIFIED**

7/30/07

By MICHAEL T. RYAN

Issued: 7/30/07

**CERTIFIED MINUTES OF THE 180<sup>TH</sup> MEETING OF THE  
ADVISORY COMMITTEE ON NUCLEAR WASTE AND MATERIALS  
JUNE 19-21, 2007**

The U.S. Nuclear Regulatory Commission (NRC) Advisory Committee on Nuclear Waste and Materials (ACNW&M or the Committee) held its 180<sup>th</sup> meeting on June 19–21, 2007, at One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The ACNW&M published a notice of this meeting in the *Federal Register* on June 6, 2007 (72 FR 31353) (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&M members Dr. Michael T. Ryan (ACNW&M Chairman), Mr. Allen G. Croff (ACNW&M Vice Chairman), Dr. James H. Clarke, Dr. William J. Hinze, and Dr. Ruth Weiner attended this meeting. 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&M Chairman, convened the meeting at 8:30 a.m. on June 19, 2007, 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&M staff so that time could be allocated for them to speak.

## **II. U.S. DEPARTMENT OF ENERGY BRIEFING ON THE TRANSPORTATION, AGING, AND DISPOSAL (TAD) CANISTER AND THE TOTAL SYSTEM MODEL (TSM) IN SUPPORT OF THE YUCCA MOUNTAIN REPOSITORY EFFORT (OPEN)**

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

Mr. Christopher Kouts from the U.S. Department of Energy (DOE), Office of Civilian Radioactive Waste Management, briefed the Committee on the status of the transportation, aging, and disposal (TAD) canister that will be used to transport and dispose of spent nuclear fuel (SNF) and other high-level radioactive waste at the proposed Yucca Mountain Repository. Mr. Kouts also discussed the DOE Total System Model (TSM) which supports the transportation effort.

Mr. Kouts discussed the implementation process for the TAD, TAD performance specifications, and TAD operations. Mr. Kouts explained that the TAD system is intended to standardize the SNF disposal process, simplify handling and operations, reduce the production and handling of low-level radioactive waste, and reduce cost and complexity of DOE facilities. In addition, he explained how the TAD concept fits in with the Nuclear Waste Policy Act's direction to use private industry to the fullest extent possible for transportation-related activities.

Mr. Kouts informed the Committee that DOE has identified four dry cask storage vendors that will work directly with utilities and the NRC to receive certification for transportation (Title 10, Part 71, "Packaging and Transportation of Radioactive Material," of the *Code of Federal Regulations* [10 CFR Part 71]) and storage (10 CFR Part 72, "Licensing Requirements for the Independent Storage of Spent Nuclear Fuel, High-Level Radioactive Waste, and Reactor-Related Greater Than Class C Waste") utilizing TAD cask systems. Upon DOE approval of the conceptual design, cask vendors will proceed to develop complete TAD system designs and safety analysis reports to be submitted to the NRC for certification under 10 CFR Part 71 and 10 CFR Part 72. DOE will review NRC-certified TAD systems to affirm compliance with DOE performance specifications. DOE will require that utilities using TAD-based systems certify that components are fabricated in accordance with approved design drawings and specifications. DOE will procure TAD system transportation overpacks for the purposes of transporting utility-purchased TAD canisters from utility dry storage sites to the repository.

Mr. Kouts briefly highlighted some of the information contained in the TAD canister performance specifications (e.g., capacity, diameter, maximum weight, and construction materials). He informed the Committee that the four vendors recommended modifications to the preliminary performance specifications to enable the TAD canisters to be more widely deployed at utility sites. DOE considered most of the recommendations from the vendors, except the suggestion to develop the TAD canister into a larger capacity system. Mr. Kouts told the Committee that DOE expects the TAD design to evolve into higher capacity systems in the future. He also told the Committee that the final procurement specification was currently available on the DOE Web site.

Mr. Kouts provided the Committee with an overview and the developmental history of the TSM as an integrated analysis tool. The use of TAD canisters is an important component of the TSM, which addresses waste acceptance and transportation, and activities at the repository. Mr. Kouts explained to the Committee how the DOE TSM is used to analyze various scenarios involving the TAD canister, a variety of preclosure scenarios, and the performance of the entire waste management system.

Following his presentation, Mr. Kouts responded to questions and comments from the ACNW&M members. The verbatim meeting transcript, which serves as the official meeting record for this presentation, captures the scope of the Committee's questions and comments and Mr. Kouts' responses to them.

The Committee expressed interest in hearing from a cask vendor about its perspective on the TAD canister before issuing a letter report.

### **III. ELECTION OF ACNW&M OFFICERS FOR THE PERIOD OF JULY 1, 2007 TO JUNE 30, 2008 (OPEN)**

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

The Committee re-elected Michael T. Ryan and Allen G. Croff to the positions of Chairman and Vice Chairman, respectively, of the ACNW&M for a 1-year term ending June 30, 2008.

### **IV. WORKING GROUP MEETING ON THE IMPLEMENTATION OF TITLE 10 PART 20.1406 OF THE CODE OF FEDERAL REGULATIONS (10 CFR 20.1406) (OPEN)**

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

During its 180<sup>th</sup> meeting, on June 19, 2007, ACNW&M held a working group meeting on the implementation of 10 CFR 20.1406, "Minimization of Contamination." The working group specifically focused on a review of draft Regulatory Guide 4012, "Minimization of Contamination and Radioactive Waste Generation in Support of Decommissioning," developed by the NRC staff to incorporate decommissioning lessons learned into new facilities. This working group meeting was a follow-on to a working group held by the Committee in November 2006 during its 174<sup>th</sup> meeting at which decommissioning lessons learned were discussed. The working group is part of a Committee effort to address a request from the Commission to review best practices in decommissioning to identify improvements in the design and construction of reactor and materials facilities that would lead to less environmental impact and more efficient decommissioning. The Committee was again supported by invited experts in decommissioning, Mr. Eric Darois from Radiation Safety and Controls Services and Mr. Eric Abelquist from Oak Ridge Institute for Science and Education, who have supported the Committee during several previous decommissioning working group meetings.

The Committee heard from Mr. Timothy Meneely of Westinghouse Electric Company and Mr. Eric Kirstein of General Electric Nuclear (GE). Mr. Meneely presented the elements of design and construction included in the design control document (DCD) for the Westinghouse AP1000, which was prepared as part of the standard design certification application review, that are intended to meet the requirements of 10 CFR 20.1406. Mr. Kirstein made a presentation

on the elements included in the DCD for the GE economic simplified boiling water reactor which are also intended to meet the 10 CFR 20.1406 requirements. These presentations demonstrated the planning undertaken by the standard design vendors when the DCDs were developed to meet the requirements of 10 CFR 20.1406 without any regulatory guidance from the NRC. Many of the elements included in the two DCDs are similar for the two designs, including the design for large component removal, minimal use of embedded pipes, and waterproofing and appropriate sloping of floors to drains where liquids are stored. The design of the AP1000 includes a unique element that calls for the entire spent fuel pool to be elevated to ensure that the external surfaces of the pool are completely accessible.

Mr. Ralph Andersen of the Nuclear Energy Institute (NEI) provided feedback on the guidance that the industry has incorporated in its efforts to date to make use of the most important lessons learned. He cautioned that NRC regulatory guidance in this technical area should focus on the process of meeting the requirement and not just provide a "laundry list" of items to address a specific weakness. He suggested using an approach analogous to the way in which the NRC and the industry have implemented the "as low as reasonably achievable" philosophy.

The Committee then heard from Mr. Edward O'Donnell from the NRC Office of Nuclear Regulatory Research who provided background information and a summary of the guidance to be provided in draft Regulatory Guide 4012, which is scheduled to be issued for public review at the beginning of July 2007.

Following the presentations, the Committee members and invited experts engaged the presenters, who were joined by Mr. Jean-Claude Dehmel of the NRC Office of New Reactors, in a panel discussion. The panelists identified the five design or construction changes to the old facility designs that would provide the most improvements in efficiency and effectiveness of decommissioning if they were implemented. The panelists also addressed what additions they would make to regulatory guidance to demonstrate compliance with 10 CFR 20.1406.

The Committee agreed to write a letter to the Commission regarding draft Regulatory Guide 4012 at the conclusion of the working group meeting.

## **V. NRC OFFICE OF PUBLIC AFFAIRS' PERSPECTIVES ON RADIATION RISK COMMUNICATION (OPEN)**

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

Mr. David McIntyre from the Office of Public Affairs (OPA) briefed the Committee on the NRC's efforts to inform the public about the health effects from low-dose radiation exposure. The briefing also addressed the public's perceptions about radiation exposure. Mr. McIntyre explained the mission of OPA, the primary function of the NRC's public outreach efforts, recent initiatives, and the information that can be found on the NRC Web site.

Mr. McIntyre informed the Committee that OPA ensures openness in the NRC regulatory process by making clear and accurate information about the agency's policies, decisions, programs, and activities available in a timely manner to the news media and the public. In addition, Mr. McIntyre indicated that OPA alerts the Commission and senior managers to news items that could impact the NRC. OPA also responds to reporter and citizen telephone calls,



letters, emails, and facsimiles. In addition, OPA prepares and distributes brochures, pamphlets, and fact sheets about the NRC and various topics of interest.

OPA also reviews the agency's communication plans on programs with high public interest. OPA recently added radiation protection as a key topic on the NRC home page. Mr. McIntyre concluded his presentation by performing a live demonstration of how various topics and brochures can be found on the NRC Web site. During the demonstration, he compared the NRC Web site to that of the U.S. Environmental Protection Agency.

Following his presentation, Mr. McIntyre responded to questions and comments from ACNW&M members. The verbatim meeting transcript, which serves as the official meeting record for this presentation, captures the scope of the Committee's questions and comments and Mr. McIntyre's responses to them.

The Committee plans to write a letter report on the subject of radiation risk communication.

## **VI. A BASIC PRIMER ON HIGH-BURNUP SPENT NUCLEAR FUEL AND ITS CLADDING (OPEN)**

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

ACNW&M staff engineer Mr. Christopher Brown provided the Committee with an information briefing on SNF, the effects from high-burnup exposure, and how storage and transportation of SNF can be influenced by burnup-affected characteristics. Mr. Brown discussed cladding types, differences between boiling-water reactor and pressurized-water reactor rods and assemblies, hydriding, and oxidation of SNF cladding.

Mr. Brown began the briefing by explaining that the NRC staff has focused on technical issues involving the cladding integrity of SNF for the last 7 years. The NRC views the cladding of SNF as the primary barrier used to ensure that the spent fuel is contained in a known geometric configuration in storage and transportation casks. He also explained that the cladding is expected to be an important barrier to retard radionuclide migration in any waste repository.

Mr. Brown spent a considerable amount of time discussing the phenomenon of hydride reorientation. He explained that SNF cladding contains precipitates of hydrogen in the form of zirconium hydrides that are normally present in SNF as circumferential hydrides and occur mainly on the outermost parts of the clad of zirconium-clad fuel. Hydride reorientation arises after SNF is heated to a temperature that permits some of the hydrides to dissolve into the zirconium-based alloy of the cladding. When the fuel is heated in this way, it eventually cools to temperatures at which it is no longer soluble and reprecipitates as randomly oriented zirconium hydrides. When the hoop stress inside the fuel rods is sufficiently high, evidence suggests that the precipitates of zirconium hydrides may be oriented perpendicular to the surfaces of the cladding. These radially oriented hydrides are referred to as radial hydrides. Following his presentation, Mr. Brown and another colleague, Dr. Robert Einziger, responded to questions and comments from the ACNW&M members. The verbatim meeting transcript, which serves as the official meeting record for this presentation, captures the scope of the Committee's questions and comments and Mr. Brown and Dr. Einziger's responses to them.

The Committee expressed interest in hearing more on this topic. In particular, the Committee was interested in the potential reaction of uranium dioxide fuel pellets to volcanic events at Yucca Mountain and asked to learn more about Dr. Einziger's recently developed paper on spent nuclear fuel.

## **VII. ACNW&M STAFF ATTENDANCE AT RECENT TECHNICAL MEETINGS (OPEN)**

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

ACNW&M staff recently attended several public meetings concerning areas of interest to the Committee. At the 180<sup>th</sup> meeting, these staff members were given the opportunity to summarize their observations of those meetings. The following paragraphs provide the key highlights of these observations.

### **A. Nuclear Regulatory Commission/National Mining Association Uranium Recovery Workshop and NRC staff meetings with uranium recovery stakeholders held in Denver, Colorado, May 14–17, 2007**

Dr. Latif Hamdan from the ACNW&M staff briefed the Committee on the annual NRC/National Mining Association Uranium Recovery (UR) Workshop and other NRC staff meetings with stakeholders held in Denver, Colorado, on May 14–17, 2007. Dr. Hamdan participated in these meetings to obtain information to support Committee reviews and recommendations to the Commission with regard to the impending rule-making on ground water protection at in situ leach (ISL) UR facilities. He indicated that the workshop and the NRC stakeholder meetings were very efficient, the uranium mining industry was energized, and the NRC was bracing to review about 25 UR-related applications in the next 2 years, including applications for expansions, restarts, and new facilities. He observed that ISL is the mining method of choice for four out five operators in the United States. Workshop participants also discussed the multiplicity of regulations and regulators and interagency interactions, applicable regulations, requirements under the National Environmental Policy Act, and aquifer restoration at the conclusion of the mining operations. Dr. Hamdan noted that two topics were not sufficiently covered—effluent disposal and decommissioning of ISL sites.

The Committee recognized that it will need to prepare to review both the technical basis document for the rulemaking, as well the draft rule itself. To this end, the Committee may consider the following actions:

visits by cognizant Committee member(s) with the DOE Office of Legacy Management in Grand Junction, Colorado, to obtain information about and lessons learned from decommissioning of UR facilities

visits by cognizant Committee member(s) or briefings to the Committee by representatives of selected States and possibly Native American organizations to gain the local government perspective and principal issues of concern with regard to ISL mining

a briefing on the development of a general environmental impact statement for ISL applications that the NRC staff plans to develop

briefings by the NRC staff on planned updates of NRC UR regulatory guides

- B. Nuclear Energy Institute Dry Cask Storage Information Forum, May 15–17, 2007, Clearwater, Florida (Mr. Christopher Brown, ACNW&M Staff Observer)

Mr. Brown relayed that about 45 presentations were delivered at the meeting, which had an attendance of approximately 250 individuals. Key meeting participants included DOE, the NRC, NEI, the Electric Power Research Institute, cask vendors, cask fabricators, utilities, and the State of Nevada. The audience heard presentations by Government regulators, nuclear plant fuel managers, dry fuel storage project managers, fuel cask designers, utility licensing and compliance personnel, storage, transportation and disposal consultants, architect-engineers, pool-to-pad services companies, hardware suppliers, and international experts responsible for management issues associated with used nuclear fuel. These presentations addressed the following broad subject areas:

management of emerging and ongoing used fuel storage and transportation issues

case studies on independent fuel storage installation inspection and enforcement

updates on cask loading operational improvements

updates on cask vendor design and licensing efforts

update on Yucca Mountain project design and licensing

discussion of the TAD canister conceptual design efforts

Many of the questions and answer sessions focused on the DOE TAD canister concept. Mr. Brown intends to prepare a separate trip report for the Committee members and staff detailing the scope and nature of the questions and associated responses.

The Committee intends to track developments in this area.

- C. 2007 Devil's Hole Workshop, Death Valley National Park, May 2–4, 2007, and DOE Probabilistic Volcanic Hazards Analysis—Update (PVHA-U) Workshop No. 4, May 10–11, 2007, Las Vegas, Nevada (Mr. Neil Coleman, ACNW&M Staff Observer)

The National Park Service has sponsored workshops since the mid-1990s that examine local water resource issues. Over time, these workshops have evolved from an examination of the hydrogeologic and biologic issues related specifically to the springs at Devil's Hole, in Ash Meadows, Nevada, to those associated with the greater Death Valley region encompassing southern Nevada and eastern California. The discussions in recent years have also included hydrogeologic issues bearing on the proposed

geologic repository at Yucca Mountain, Nevada. These workshops generally include informal presentations of unpublished technical papers and field trips to local features of hydrologic interest. Mr. Coleman has been attending these workshops for several years and summarized highlights from the 2007 workshop held at the Furnace Creek Visitor Center at Death Valley National Park.

Information related to volcanism at Yucca Mountain was presented at this meeting and this was incorporated in the Committee's white paper on volcanism.

In 1995, DOE sponsored a formal expert elicitation to determine the probability of a disruptive igneous event affecting the proposed Yucca Mountain repository. Several years ago DOE decided to perform an update of the probabilistic volcanic hazards analysis (PVHA-U) using new information from aeromagnetic mapping and targeted exploratory boreholes. Drs. William Hinze and Bruce Marsh (an ACNW&M consultant from Johns Hopkins University) and ACNW&M staff member Mr. Neil Coleman have been observing the various PVHA-U meetings over the last few years. Mr. Coleman reported on his observations from the last of the PVHA-U public workshops. The DOE final PVHA-U report is expected to be published sometime in calendar year 2008. Mr. Coleman will document his observations in a future trip report.

The Committee intends to track any new developments in this area.

- D. NRC/DOE Technical Exchange on Layout and Operations, May 30, 2007, Las Vegas, Nevada (Mr. Michael Lee, ACNW&M Staff Observer)

During its 177<sup>th</sup> meeting, held in March 2007, a DOE senior manager briefed the ACNW&M on the status of the surface facility design for the Yucca Mountain geologic repository operations area (GROA). Mr. Lee noted that the May 2007 NRC/DOE technical exchange discussed essentially the same information as the March 2007 ACNW&M briefing, but that the discussions were more detailed and included the use of previously unavailable engineering plans. Mr. Lee estimated that about 70 individuals participated in the technical exchange meeting, both in person and remotely at several sites outside of Las Vegas via videoconference and telephone connections.

The DOE presentations focused on the following subjects:

- site layout and waste-handling overview
- layout of canister receipt and closure facility and wet-handling facility
- layout of wet-handling facility and waste-handling operations
- waste-handling control philosophy
- seismic design considerations

Technical exchange participants had the opportunity to question the DOE speakers about the content of each presentation, and the joint NRC/DOE technical exchange

meeting summary is expected to capture the scope of the questioning. A key DOE disclosure during the technical exchange meeting was that only about 50 percent of the GROA design and preclosure integrated safety assessment products needed for the June 2008 license application were completed. A DOE spokesperson noted that all products supporting that license application were scheduled for completion in the November 2007–February 2008 timeframe. Mr. Lee also reported that the NRC and DOE agreed to conduct additional technical meetings before the submittal of the license application. The group also discussed scheduled and proposed future meeting topics. All future NRC/DOE technical meetings will be open to the public.

Mr. Lee also distributed electronic copies of the DOE presentation materials. Mr. Lee does not plan to prepare a trip report because the joint NRC/DOE technical exchange meeting summary will serve as the official record for that meeting.

None at this time. The Committee intends to track developments in this area and receive a second DOE briefing on the status of the GROA design before the end of the calendar year.

The meeting adjourned at 4:40 p.m. on Thursday, June 21, 2007.

distribution near the seismic vessel. At most, such effects may be interpreted as falling within the Marine Mammal Protection Act (MMPA) definition of "Level B Harassment" for those species managed by NMFS. No long-term or significant effects are expected on individual marine mammals, or the populations to which they belong, or their habitats. The agency is currently consulting with the NMFS regarding species within their jurisdiction potentially affected by this proposed activity.

Copies of the draft EA, titled "Environmental Assessment of two Marine Geophysical Surveys by the *Marcus G. Langseth* in the Eastern Tropical Pacific, 2007," are available upon request from: Dr. William Lang, National Science Foundation, Division of Ocean Sciences, 4201 Wilson Blvd., Suite 725, Arlington, VA 22230. Telephone: (703) 292-7857 or at the agency's Web site at: [http://www.nsf.gov/geo/oce/pubs/MGL\\_ETP\\_2007\\_EA.pdf](http://www.nsf.gov/geo/oce/pubs/MGL_ETP_2007_EA.pdf). The NSF invites interested members of the public to provide written comments on this draft EA.

Dated: May 31, 2007.

Dr. Alexander Shor,  
Program Director, Oceanographic  
Instrumentation and Technical Services,  
Division of Ocean Sciences, National Science  
Foundation.

[FR Doc. 07-2809 Filed 6-5-07; 8:45 am]

BILLING CODE 7555-01-M

## NUCLEAR REGULATORY COMMISSION

### Advisory Committee on Nuclear Waste and Materials; Meeting Notice

The Advisory Committee on Nuclear Waste and Materials (ACNW&M) will hold its 180th meeting on June 19–21, 2007, Room T-2B3, 11545 Rockville Pike, Rockville, Maryland.

#### Tuesday, June 19, 2007

10 a.m.–10:05 a.m.: *Opening Remarks by the ACNW&M Chairman* (Open)—The Chairman will make opening remarks regarding the conduct of today's sessions.

10:05 a.m.–11:30 a.m.: *U.S. Department of Energy Briefing on the Transportation, Aging, and Disposal (TAD) Canister and the Total System Model (TSM) in Support of the Yucca Mountain Repository Effort* (Open)—A representative from the Department of Energy (DOE), Office of Civilian Radioactive Waste Management, will brief the Committee on the status of the Transportation, Aging, and Disposal (TAD) canister that will be used to

transport and dispose of spent nuclear fuel and other high-level radioactive waste to the proposed Yucca Mountain Repository. The speaker will also discuss DOE's Total System Model (TSM) in support of the transportation effort.

11:30 a.m.–12 p.m.: *Election of ACNW&M Officers for the period of July 1, 2007 to June 30, 2008* (Open)—The Committee will elect the Chairman and Vice Chairman for the ACNW&M for the next 1-year period.

*Working Group Meeting on Implementation of 10 CFR 20.1406* (Open)

1 p.m.–1:05 p.m.: *Opening Remarks and Introductions* (Open)—ACNW&M Member Dr. James Clarke will provide an overview of the Working Group Meeting, including the meeting purpose and scope, and introduce invited speakers.

1:05 p.m.–4 p.m.: *Scheduled Presentations*

- Representatives from the designers of the Westinghouse AP1000 and the General Electric ESBWR power reactors will present information on the implementation of 10 CFR 20.1406, "Minimization of Contamination," in the designs of these reactors.

- A representative from the NRC's Office of Nuclear Regulatory Research will brief the Committee on draft Regulatory Guide 4012.

- A representative of the Nuclear Energy Institute will present information on industry contributions to the draft Regulatory Guide and implementation of 10 CFR 20.1406.

There may be a 15 minute break at some point during this activity.

4 p.m.–5 p.m.: *Discussion and Wrap Up* (Open)—Committee Member Clarke will lead a discussion of the ACNW&M Members and the invited speakers. Dr. Clarke will provide a summary of the Working Group Meeting, including a discussion of a possible letter report to the Commission.

#### Wednesday, June 20, 2007

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

8:35 a.m.–9:30 a.m.: *NRC Office of Public Affairs' Perspectives on Radiation Risk Communication* (Open)—NRC staff representative from the Office of Public Affairs (OPA) will brief the Committee on the NRC's efforts to inform the public about the health effects from low dose radiation exposure. The discussion is also

expected to address the public perceptions about radiation exposures.

9:30 a.m.–10 a.m.: *A Basic Primer on High-Burnup Spent Nuclear Fuel and Its Cladding* (Open)—ACNW&M staff will provide the Committee with a lecture on spent nuclear fuels (SNFs), the effects from high-burnup exposure, and how storage and transportation of SNF can be affected by burnup-affected characteristics. Some of the topics to be covered are cladding types, hydriding, and oxidation.

10:15 a.m.–11:45 a.m.: *ACNW&M Staff Attendance to Recent Technical Meetings* (Open)—ACNW&M staff will report to the Committee on their attendance to recent technical meetings such as: the NEI Dry Cask Storage Forum, the National Mining Association (NMA)/NRC Uranium Recovery Workshop, the Devil's Hole Workshop, and the DOE/NRC Technical Exchange Meeting on Preclosure Facilities Layout and Operations.

1 p.m.–4:30 p.m.: *Discussion of ACNW&M Letter Reports* (Open)—The Committee will discuss potential and proposed ACNW&M letter reports.

4:30 p.m.–5:30 p.m.: *Miscellaneous* (Open)—The Committee will discuss matters related to the conduct of ACNW&M 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, June 21, 2007

8:30 a.m.–5 p.m.: *Miscellaneous* (Open)—The Committee will discuss matters related to the conduct of ACNW&M activities and specific issues that were not completed during previous meetings. Discussions may include content of future letters and scope of future Committee Meetings.

Procedures for the conduct of and participation in ACNW&M meetings were published in the *Federal Register* on October 12, 2006 (71 FR 60136). In accordance with those procedures, oral or written views 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 Dr. 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 the meeting may be limited to selected

portions of the meeting as determined by the ACNW&M Chairman. Information regarding the time to be set aside for taking pictures may be obtained by contacting the ACNW&M office prior to the meeting. In view of the possibility that the schedule for ACNW&M meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should notify Dr. Dias as to their particular needs.

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

ACNW meeting agenda, meeting transcripts, and letter reports are available through the NRC Public Document Room at [pdr@nrc.gov](mailto:pdr@nrc.gov), or by calling the PDR at 1-800-397-4209, or from the Publicly Available Records System (PARS) 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%20Mtg%20schedules/agendas)).

Video teleconferencing service is available for observing open sessions of ACNW&M meetings. Those wishing to use this service for observing ACNW&M meetings should contact Mr. Theron Brown, ACRS/ACNW&M Audio Visual 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: May 31, 2007.  
**Andrew L. Bates,**  
*Advisory Committee Management Officer.*  
 [FR Doc. E7-10858 Filed 6-5-07; 8:45 am]  
 BILLING CODE 7590-01-P

## NUCLEAR REGULATORY COMMISSION

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

The Advisory Committee on Nuclear Waste and Materials (ACNW&M) will hold a Planning and Procedures meeting on June 19, 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&M, 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, June 19, 2007—8:30 a.m.–9:30 a.m.**

The Committee will discuss proposed ACNW&M 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, Dr. Antonio F. Dias (Telephone: 301/415-6805) between 8:15 a.m. and 5 p.m. (ET) 5 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 2 working days prior to the meeting to be advised of any potential changes in the agenda.

Dated: May 30, 2007.  
**Antonio F. Dias,**  
*Branch Chief, ACNW&M.*  
 [FR Doc. E7-10861 Filed 6-5-07; 8:45 am]  
 BILLING CODE 7590-01-P

## SECURITIES AND EXCHANGE COMMISSION

### Proposed Collection; Comment Request

Upon written request, copies available from: Securities and Exchange Commission, Office of Filings and Information Services, Washington, DC 20549.

*Extension:* Rule 248.30; SEC File No. 270-549; OMB Control No. 3235-0610.

Notice is hereby given that pursuant to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seq.*) the Securities and Exchange Commission ("Commission") plans to submit to the

Office of Management and Budget ("OMB") a request for extension of the previously approved collection of information for rule 248.30 under Regulation S-P (17 CFR 248.30), titled "Procedures to Safeguard Customer Records and Information; Disposal of Consumer Report Information."

Rule 248.30 (the "safeguard rule") requires brokers, dealers, investment companies, and investment advisers registered with the Commission ("registered investment advisers") (collectively "covered institutions") to adopt written policies and procedures for administrative, technical, and physical safeguards to protect customer records and information. The safeguards must be reasonably designed to "insure the security and confidentiality of customer records and information," protect against any anticipated threats or hazards to the security and integrity of those records, and protect against unauthorized access to or use of those records or information, which "could result in substantial harm or inconvenience to any customer." The safeguard rule's requirement that covered institutions' policies and procedures be documented in writing constitutes a collection of information and must be maintained on an ongoing basis. This requirement eliminates uncertainty as to required employee actions to protect customer records and information and promotes more systematic and organized reviews of safeguard policies and procedures by institutions. The information collection also assists the Commission's examination staff in assessing the existence and adequacy of covered institutions' safeguard policies and procedures.

The Commission staff estimates that approximately 449 new entities are subject to the requirements of the safeguard rule's documentation requirement each year. Of these, we estimate that 389 will be small entities, and that on average a small entity will spend an average of 15 hours to develop and document its safeguard policies and procedures. The Commission staff therefore estimates a one-time hour burden for these new, smaller entities of 5,835 hours. We estimate that 60 additional large institutions will be subject to the rule, and that on average each new large institution will spend 715 hours to develop and document their safeguard policies and procedures, for a one-time burden of 42,900 hours. Thus, we estimate a one-time hour burden for new entities of 48,735 hours per year.

The Commission staff also estimates that 2,080 institutions review and



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

May 30, 2007

AGENDA  
180<sup>th</sup> ACNW&M MEETING  
JUNE 19-21, 2007

TUESDAY, JUNE 19, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,  
ROCKVILLE, MARYLAND

- 1) 10:00 - 10:05 A.M. **Opening Remarks by the ACNW&M Chairman** (Open)  
(MTR/AFD)  
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 2) 10:05 - 11:30 A.M. **U.S. Department of Energy Briefing on the Transportation, Aging, and Disposal (TAD) Canister and the Total System Model (TSM) in Support of the Yucca Mountain Repository Effort** (Open) (RFW/CLB)  
A representative from the Department of Energy (DOE), Office of Civilian Radioactive Waste Management, will brief the Committee on the status of the Transportation, Aging, and Disposal (TAD) canister that will be used to transport and dispose of spent nuclear fuel and other high-level radioactive waste to the proposed Yucca Mountain Repository. The speaker will also discuss DOE's Total System Model (TSM) in support of the transportation effort.
- 3) 11:30 - 12:00 P.M. **Election of ACNW&M Officers for the period of July 1, 2007 to June 30, 2008** (Open) (FPG/JHF)  
Election of Chairman and Vice Chairman for the ACNW&M for the next 1-year period.

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

**WORKING GROUP MEETING ON IMPLEMENTATION OF 10 CFR 20.1406** (Open)

- 4) 1:00 - 1:05 P.M. **Opening Remarks and Introductions** (JHC/DAW)  
ACNW&M Member Dr. James Clarke will provide an overview of the Working Group Meeting, including the meeting purpose and scope, and introduce invited speakers.
- 5) 1:05 - ~~4:00~~ P.M. **Scheduled Presentations**  
4:15
  - Representatives from the designers of the Westinghouse AP1000 and the General Electric ESBWR power reactors will present information on the implementation of 10 CFR 20.1406, "Minimization of Contamination," in the designs of these reactors.
  - A representative from the NRC's Office of Nuclear Regulatory Research will brief the Committee on the draft Regulatory Guide 4012.
  - A representative of the Nuclear Energy Institute will present information on industry contributions to draft Regulatory Guide and implementation of 10 CFR 20.1406.

Meneely  
Kirstein

Anderson

3:05 - 3:20 Break



- 4:15 4:55  
6) ~~4:00~~ - 5:00 P.M. **Discussion and Wrap Up** (All)  
There may be a 15 minute break at some point during this activity.  
Committee Member Clarke will lead a discussion of the ACNW&M Members and the invited speakers. Dr. Clarke will provide a summary of the Working Group Meeting, including a discussion of a possible letter report to the Commission.
- 4:55  
5:00 P.M. **Adjourn**

**WEDNESDAY, JUNE 20, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**

- 7) 8:30 - 8:35 A.M. **Opening Remarks by the ACNW&M Chairman** (Open)  
(MTR/DAW)  
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 8) 8:35 - ~~9:30~~ A.M. **NRC Office of Public Affairs' Perspectives on Radiation Risk Communication** (Open) (MTR/CLB)  
9:40  
NRC staff representative from the Office of Public Affairs (OPA) will brief the Committee on the NRC's efforts to inform the public about the health effects from low dose radiation exposure. The discussion is also expected to address the public perceptions about radiation exposures. McIntyre
- 9) ~~9:30~~ - 10:00 A.M. **A Basic Primer on High-Burnup Spent Nuclear Fuel and Its Cladding** (Open) (RFW/CLB)  
9:40 10:20  
ACNW&M staff will provide the Committee with a lecture on spent nuclear fuels (SNFs), the effects from high-burnup exposure, and how storage and transportation of SNF can be affected by burnup-affected characteristics. Some of the topics to be covered are cladding types, hydriding, and oxidation. Brown
- 10:00 - 10:15 A.M. \*\*\*BREAK\*\*\*
- 10) 10:15 - ~~11:45~~ A.M. **ACNW&M Staff Attendance to Recent Technical Meetings**  
11:30  
(Open) (All)  
ACNW&M staff will report to the Committee on their attendance to recent technical meetings such as: the NEI Dry Cask Storage Forum, the National Mining Association (NMA)/NRC Uranium Recovery Workshop, the Devil's Hole Workshop, and the DOE/NRC Technical Exchange Meeting on Preclosure Facilities Layout and Operations. Humdan, Brown, Coleman, Lee
- 11:30  
11:45 - 1:00 P.M. \*\*\*LUNCH\*\*\*
- 11) 1:00 - 4:30 P.M. **Discussion of ACNW&M Letter Reports** (Open) (All)  
1:15 - 2:30  
Discussion of proposed and potential ACNW&M letter reports on:  
11.1) Proposed Revision to Standard Review Plan Chapter 11.5 for New Reactor Licensing (MTR/DAW)  
11.2) Briefing on Interim Staff Guidance (ISG)-04, "Preclosure Safety Analysis - Human Reliability Analysis" (MTR/DAW)

1:00 - 1:15 Miscellaneous

- 11.3) Briefing on Long-Term Research Activities (RFW/JHF)  
 11.4) DOE's Briefing on TAD and TSM in Support of Yucca Mountain Repository (RFW/CLB)  
 11.5) Working Group on Implementation of 10 CFR 20.1406 (JHC/DAW)  
 11.6) OPA's Perspective on Radiation Risk Communication to the Public (MTR/CLB)

2:30 - 4:30

1:00

~~Break~~ Recess

- 12) ~~4:30~~ 5:30 P.M.

**Miscellaneous** (Open) (All)

The Committee will discuss matters related to the conduct of ACNW&M 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.      **Adjourn**

**THURSDAY, JUNE 21, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**

- 13) ~~8:30~~ - 5:00 P.M.

10:00 4:40

**Miscellaneous** (Open) (All)

The Committee will discuss matters related to the conduct of ACNW&M activities and specific issues that were not completed during previous meetings. Discussions may include content of future letters and scope of future Committee Meetings.

4:40

~~5:00~~-P.M.      **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&M in advance of the briefing.
- During the days of the meeting, phone number 301-415-7360 should be used in order to access anyone in the ACNW&M Office.

**APPENDIX C: MEETING ATTENDEES**  
**180<sup>TH</sup> ACNW&M MEETING**  
**JUNE 19–21, 2007**

**ACNW&M MEMBERS**

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

**ACNW&M INVITED EXPERTS**

Eric Abelquist, ORISE  
Eric Darois, CHP, Radiation Safety &  
Control Services, Inc.

**ACNW&M 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**

**JUNE 19, 2007**

J. Shepherd	FSME
T. Fredrichs	NRO
W. Ott	RES
J.-C. Dehmel	NRO
E. O'Donnell	RES
B. Eid	FSME
J. Mitchell	RES
C. Feldman	RES
S. Garry	NRR
T. Nicholson	RES
G. Bjorkman	NMSS
A. Snyder	NMSS
K. Chang	NMSS
M. Shah	NMSS
M. Sampson	NMSS
K. Ruleman	NRR
T. Ahn	NMSS
A. Wong	NMSS
F. Sturz	NSIR
Y. Diaz	NRR
R. Reeves	NMSS
P. Kelley	NSIR
V. Gaffney	NRR
A. Cubbage	NRO
T. Frye	NRO
S. Bernal	NRO

**APPENDIX C**  
**180<sup>TH</sup> ACNW&M MEETING**  
**JUNE 19-21, 2007**

-2-

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

**JUNE 19, 2007 (Cont'd)**

J. Ridgely	RES
C. Hinson	NRO
J. Ciocco	NRO
S. Whaley	NMSS
V. Gaffney	NRR

**JUNE 20, 2007**

J. Mitchell	RES
D. Cool	FSME
T. Brock	RES
A. Cameron	NMSS
E. Thompson	NMSS
P. Justus	NMSS
A. Snyder	NMSS
D. Tedder	NMSS
M. Norato	NMSS
T. Ahn	NMSS
M. Shah	NMSS
G. Figueroa	RES
P. Reed	RES
J. Toro	

**JUNE 21, 2007**

N. Siu	RES
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**ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC**

**JUNE 19, 2007**

E. von Tiesenhausen	Clark County
L. Barrett	Self
L. Desell	DOE
S. Bokhari	DOE
C. Daly	DOE
C. Kouts	DOE
M. Malsch	EFM&C
M. O'Mealia	Nevada
W. Bixby	EnergySolutions
R. McCullum	Nuclear Energy Institute (NEI)
D. Siealen	BSC
N. Henderson	BSC

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

**JUNE 19, 2007 (Cont'd)**

B. O'Connell  
K. Etxegoien  
A. Clarke  
G. Oliver  
T. Meneely  
E. Kirstein  
J. Bland

NARUC  
Northrop Grumman  
ANC Associates, Inc.  
NEI  
Westinghouse  
General Electric  
Chesapeake Nuclear Services

**Via Teleconference State of Nevada**

C. Fitzpatrick

**JUNE 20, 2007**

E. von Tiesenhausen  
M. Conley  
N. Henderson  
L. Desell  
G. Cossitt  
W. Bixby

Clark County  
Platts/McGraw-Hill  
BSC  
DOE  
Choicepoint  
EnergySolutions

**Via Teleconference State of Nevada**

C. Fitzpatrick

**JUNE 21, 2007**

E. von Tiesenhausen

Clark County

## **APPENDIX D: FUTURE AGENDA**

The Committee agreed to consider the following topics during its 181<sup>st</sup> meeting, to be held July 17–19, 2007:

- Semiannual Briefing by the Office of Nuclear Material Safety and Safeguards
- Waste Incidental to Reprocessing Monitoring Activities at the Idaho National Laboratory and Savannah River Sites
- DOE Reexamination of Past U.S. Geological Survey (USGS) Infiltration Studies
- Annual Briefing by the Office of Nuclear Regulatory Research (RES)
- Nuclear Energy Institute Briefing on the Use of Burnup Credit for Spent fuel Storage and Transportation Casks
- Transportation, Aging, and Disposal (TAD) Canister System Performance Specification, Revision 0, Recently Issued by the Department of Energy
- Vendor's View on the TAD Performance Specification
- ACNW&M White Paper on Spent Nuclear Fuel Recycle Facilities
- Regulatory Guides Scheduled for Revision by RES

**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 ITEM NO.</u></b>	<b><u>DOCUMENTS</u></b>
<b>2</b>	<b>U.S. Department of Energy Briefing on the Transportation, Aging, and Disposal (TAD) Canister and the Total System Model (TSM) in Support of the Yucca Mountain Repository Effort</b>  1. Transportation, Aging and Disposal (TAD) Canister System Status and Total System Model (TSM), presented by Christopher Kouts, DOE <b>[Viewgraphs]</b>
<b>4-6</b>	<b>Working Group Meeting on the Implementation of Title 10 Part 20.1406 of the Code of Federal Regulations (10 CFR 20.1406)</b>  2. AP1000 Compliance with 10CFR20.1406, Westinghouse Technical Report 98, presented by Tim Meneely, Westinghouse Electric Company, LLC <b>[Viewgraphs]</b>  3. Working Group Meeting on Implementation of 10 CFR 20.1407, presented by Erik Kirstein, General Electric <b>[Viewgraphs]</b>  4. Implementation of 10 CFR 20.1406, presented by Ralph L. Anderson, NEI <b>[Viewgraphs]</b>  5. Implementation of 10 CFR 20.1406 — Life Cycle Planning, presented by Edward O'Donnell & William Ott, RES <b>[Viewgraphs]</b>
<b>8</b>	<b>NRC Office of Public Affairs' Perspectives on Radiation Risk Communication</b>  6. NRC's Outreach on Radiation, presented by Dave McIntyre, OPA <b>[Viewgraphs &amp; Handouts]</b>
<b>9</b>	<b>Basic Primer on High-Burnup Spent Nuclear Fuel and Its Cladding</b>  7. A Basic Primer on Fuel: Assembly, Cladding, and Pellet, presented by Christopher Brown, ACNW &M <b>[Viewgraphs]</b>
<b>10</b>	<b>ACNW&amp;M Staff Attendance at Recent Technical Meetings</b>  8. NRC/DOE Technical Exchange on Layout and Operations, May 30, 2007, presented by Michael Lee, ACNW <b>[Viewgraphs &amp; Handouts]</b>  9. UR Workshop & Meetings, Denver, CO, May 14–16, 2007, Summary & Highlights, presented by Latif Hamdan, ACNW&M <b>[Viewgraphs]</b>

APPENDIX E  
180<sup>TH</sup> ACNW&M MEETING  
JUNE 19-21, 2007

MEETING NOTEBOOK CONTENTS

TAB

NUMBER (S)

DOCUMENTS

**Agenda, 180<sup>th</sup> ACNW&M Meeting, June 19-21, 2007, dated May 20, 2007**

**2**

**U.S. Department of Energy Briefing on the Transportation, Aging, and Disposal (TAD) Canister and the Total System Model (TSM) in Support of the Yucca Mountain Repository Effort**

1. Status Report

- Attachment 1 - Total System Model Analyses Supporting the TAD Concept, presented to Nuclear Waste Technical Review Board (NWTRB) by Christopher Kouts, DOE, May 9, 2006 **[Viewgraphs]**
- Attachment 2 - Waste Management Planning and Integration, presented to NWTRB by Christopher Kouts, DOE, January 24, 2007
- Attachment 3 - Letter dated December 12, 2006, to Jane Summerson, DOE, from Susan Gordon, et al., re Comments on the Scope of the Supplemental to the Final Environmental Impact Statement for a Geological Repository for the Disposal of Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca Mountain, NV
- Attachment 4 - DOE/RW-0585, Civil Radioactive Waste Management System, Preliminary Transportation, Aging and Disposal Canister System Performance Specification, Revision A, November 2006
- Attachment 5 - Letter dated June 14, 2006, to Mr. Paul M. Golan, DOE, from B. John Garrick, Chairman, Nuclear Waste Technical Review Board, re DOE's proposal to use a transportation, aging, and disposal (TAD) canister system for commercial spent nuclear fuel•

**4-6**

**Working Group Meeting on the Implementation of Title 10 Part 20.1406 of the Code of Federal Regulations (10 CFR 20.1406)**

2. Table of Contents

3. Letter dated January 8, 2007, to the Honorable Dale e. Klein, Chairman, NRC, from Michael T. Ryan, Chairman, ACNW, Subject: Working Group Meeting on Decommissioning Lessons Learned



**APPENDIX E**  
**180<sup>TH</sup> ACNW&M MEETING**  
**JUNE 19-21, 2007**

**MEETING NOTEBOOK CONTENTS (CONT'D)**

**TAB**

**NUMBER (S)**

**DOCUMENTS**

**4-6 (cont'd) Working Group Meeting on the Implementation of Title 10 Part 20.1406 of the Code of Federal Regulations (10 CFR 20.1406)**

4. Letter dated October 17, 2006, to the Honorable Dale e. Klein, Chairman, NRC, from Michael T. Ryan, Chairman, ACNW, Subject: Prevention of Legacy Sites
5. Letter dated June 9 2006, to the Honorable Nils J. Diaz, Chairman, NRC, from Michael T. Ryan, Chairman, ACNW, Subject: Revised Decommissioning Guidance to Implement the License Termination Rule
6. Letter dated August 12, 2005, to the Honorable Dale e. Klein, Chairman, NRC, from Michael T. Ryan, Chairman, ACNW, Subject: Draft Revised Decommissioning Guidance to Implement the License Termination Rule
7. Draft Regulatory Guide 4012, "Minimization of Contamination and Radioactive Waste Generation in Support of Decommissioning," U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, June 2007
8. AP1000 Standard Combined License Technical Report Number 98, titled "Compliance with 10 CFR 20.1406," Revision 0, Westinghouse Electric Company, March 2007
9. ESBWR, Design Control Document, Tier 2, Revision 1, Chapter 12, "Radiation Protection," Section 12.6, "Minimization of Contamination and Radwaste Generation," GE Nuclear Energy, January 2006

**8 NRC Office of Public Affairs' Perspectives on Radiation Risk Communication**

10. Status Report
  - Attachment 1 - Letter dated May 24, 2001, to the Honorable Richard A. Meserve, Chairman, NRC, from B. John Garrick, Chairman, ACNW, Subject: Staff Requirements Memorandum dated April 11, 2001, on the March 22, 2001, Advisory Committee on Nuclear Waste (ACNW) Briefing of the Commission

**APPENDIX E**  
**180<sup>TH</sup> ACNW&M MEETING**  
**JUNE 19-21, 2007**

**MEETING NOTEBOOK CONTENTS (CONT'D)**

**TAB**  
**NUMBER (S)**

**DOCUMENTS**

**8 (cont'd)**

**NRC Office of Public Affairs' Perspectives on Radiation Risk Communication**

- Attachment 2 - Letter dated August 18, 2000, to the Honorable Richard A. Meserve, Chairman, NRC, from B. John Garrick, Chairman, ACNW, Subject: ACNW Visits to Nuclear Sites and Information Exchanges in the United Kingdom and France, May 15–19, 2000
- Attachment 3 - Letter dated November 1, 2000, to the Honorable Richard A. Meserve, Chairman, NRC, from B. John Garrick, Chairman, ACNW, Subject: Advisory Committee on Nuclear Waste — Yucca Mountain Stakeholders Meetings
- Attachment 4 - Letter dated December 23, 1999, to the Honorable Richard A. Meserve, Chairman, NRC, from B. John Garrick, Chairman, ACNW, Subject: Advisory Committee on Nuclear Waste Round-Table Discussion with Yucca Mountain Stakeholders on the Role of Safety Assessment in Regulatory Decision-Making — Observations and Recommendations
- Attachment 5 - Memorandum dated February 13, 2007, to Michael R. Johnson, EDO, from Charles E. Miller, FSME, Subject: Communication Plan and Proposed Public Web Site Revisions for Disposal of Low-Activity Radioactive Waste Using U.S. Nuclear Regulatory Commission's Regulation in 10 CFR 20.2002 (**Official Use Only**)
- Attachment 6 - Communication Plan, Disposal of Low-Activity Radioactive Waste Using the U.S. Nuclear Regulatory Commission's Regulation in 10 CFR 20.2002
- Attachment 7 - U.S. NRC Fact Sheet, Office of Public Affairs, re Tritium, Radiation Protection Limits, and Drinking Water Standards
- Attachment 8 - U.S. NRC Fact Sheet, Office of Public Affairs, re Risks Associated with Medical Events
- Attachment 9 - U.S. NRC Backgrounder, Office of Public Affairs, re Medical Use of Radioactive Materials
- NUREG/BR-0318, United States Nuclear Regulatory Commission, "Effective Risk Communication, Guidelines for Internal Risk Communication"

APPENDIX E  
180<sup>TH</sup> ACNW&M MEETING  
JUNE 19-21, 2007

MEETING NOTEBOOK CONTENTS (CONT'D)

<u>TAB</u>	
<u>NUMBER (S)</u>	<u>DOCUMENTS</u>
10	ACNW&M Staff Attendance at Recent Technical Meetings
11	UR Workshop & Meetings, Denver, Colorado, May 14–16, 2007, Summary & Highlights by Latif Hamdan