

ACNW-0075
PDR 2/17/94

MINUTES OF THE 58TH ACNW MEETING
OCTOBER 27-28, 1993

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Issued: December 6, 1993

MINUTES OF THE 58TH MEETING OF THE
ADVISORY COMMITTEE ON NUCLEAR WASTE
OCTOBER 27-28, 1993
BETHESDA, MARYLAND

The 58th meeting of the Advisory Committee on Nuclear Waste was held Wednesday and Thursday, October 27-28, 1993, in the Connecticut Room at the Holiday Inn, Bethesda, Maryland. The purpose of this meeting was to discuss and take appropriate actions on the items listed in the attached agenda.

A transcript of selected portions of the meeting was kept and is available in the NRC Public Document Room at the Gelman Building, 2120 L Street, N.W., Washington, D.C. [Copies of the transcript taken at this meeting may be purchased from Ann Riley & Associates, Ltd., 1612 K Street, N.W., Washington, D.C. 20006.]

Dr. Dade W. Moeller, Committee Chairman, convened the meeting at 8:30 a.m. and briefly reviewed the schedule for the meeting. He stated that the meeting was being conducted in conformance with the Federal Advisory Committee Act. He stated that the Committee had not received any requests from persons or organizations desiring to make an oral statements during the meeting. However, he invited members of the public, who were present and had something to contribute, to let the ACNW staff know so that time could be allocated for them to make oral statements.

ACNW members, Drs. William J. Hinze, Paul W. Pomeroy, and Martin J. Steindler, were present. [For a list of attendees, see Appendix III.]

I. CHAIRMAN'S REPORT (Open)

[Note: Mr. Richard K. Major was the Designated Federal Official for this part of the meeting.]

The Committee agreed to reconvene the second day of this meeting at 1:00 p.m. in order to allow Drs. Moeller and Steindler to meet with Commissioner Rogers and de Planque at 9:30 a.m. and to allow Drs. Hinze and Pomeroy to attend, in part, a briefing on phase 2.5 of the Yucca Mountain performance assessment being conducted by the Center for Nuclear Waste Regulatory Analyses (CNWRA).

Dr. Moeller identified a number of items that he believed to be of interest to the Committee, including:

- Mr. Carl Gertz, Director, Yucca Mountain Project Office (YMPO), has been reassigned to head a special task force on the high-level radioactive waste (HLW) tank farms at

the Hanford site. Mr. J. Russell Dyer has been named the Acting Director, YMPO.

- House of Representatives and Senate conferees approved a compromise provision that eliminates any further U.S. Department of Energy (DOE) grants to study the feasibility of siting a monitored retrievable storage facility.
- President Clinton forwarded the nomination of Mr. Richard Stallings to Congress for the position of Nuclear Waste Negotiator. The Senate Energy and Natural Resources Committee has scheduled a confirmation hearing on the nomination.
- The Nuclear Waste Technical Review Board (NWTRB) suggested that DOE change its contracting and purchasing practices on the exploratory studies facility (ESF) to be consistent with typical underground construction industry practices.
- Westinghouse Idaho reports that basic calcium-aluminum-silicate slagging can decontaminate radioactive scrap metals to <1 ppm uranium -- and even lower when calcium fluoride and nickel oxide are introduced. DOE estimates it has about 1.5 million tons of radioactive scrap metal in storage.
- The Chief Financial Officers Act of 1990 requires that all Federal agencies develop indicators to evaluate their performance. Additional information on the NRC's response is available in the Chief Financial Officer's Annual Report for 1993.
- EPA has requested that the NRC permit it to use the CNWRA as a source of technical support and guidance on the licensing of the Waste Isolation Project Plant (WIPP) facility. The majority of this support would be directed toward review of the DOE performance assessment at WIPP.

Dr. Steindler identified a number of items that he believed to be of interest to the Committee, including:

- A new tripartite agreement between the Hanford Engineering Development Laboratory, State of Washington, and U.S. Environmental Protection Agency (EPA), calls for scrapping plans for grouting the low-level radioactive waste (LLW) at Hanford in favor of vitrification. According to a news item, the Yakima Indians objected to the use of grout since some LLW constituents would end up in the soil and, perhaps, the groundwater before a half life for

several radionuclides, such as Tc-99 and I-129, had passed. Dr. Steindler observed that little is known about the technical aspects or the economics of the vitrification process, particularly the LLW vitrification process patented by Pacific Nuclear. It would be well for the ACNW to track progress on this LLW vitrification activity because it may become the primary processing method in the U.S.

- President Clinton has issued Executive Order 12866, Regulatory Planning and Review, that requires Federal Agencies to compare the risks a regulation is intended to address to other risks within that agency's jurisdiction. The Executive Order also encourages Federal regulatory agencies to "avoid regulations that are inconsistent, incompatible, or duplicative with its other regulations or those of other Federal agencies." Dr. Steindler believes that this Committee should observe how EPA and NRC respond to this order, particularly how EPA compares the one part in a million risk limit for chemical hazards to the assessment of risks from HLW hazards.
- On October 1, 1993, Martin Marietta took over the management of Sandia National Laboratory from AT&T.
- The most recent schedule change for the Savannah River Defense Waste Processing Facility calls for radioactive testing to start by December 1995, one year after the previous estimate. This delay is of some concern because it is not clear whether it is caused by technical or bureaucratic issues.

II. REPORTS ON THREE TECHNICAL MEETINGS ATTENDED (Open)

[Note: Ms. Lynn F. Deering was the Designated Federal Official for this part of the meeting.]

The Committee heard reports from ACNW members, staff, and a representative of the U.S. Geological Survey on recent technical meetings that they have attended. The meetings were:

- Hydrology Research Coordination Meeting, Center for Nuclear Waste Regulatory Analyses, San Antonio, Texas, October 5-6, 1993
- NRC/DOE Technical Exchange on Radionuclide Migration in the Unsaturated Zone and Near Field Phenomenon, Los Alamos, New Mexico, October 13-14, 1993

- Surface Based Dry Drilling and the Exploratory Studies Facility Underground Testing Program, Nuclear Waste Technical Review Board, Las Vegas, Nevada, October 19-20, 1993

Ms. Lynn Deering attended these meetings to gain insights into unsaturated zone hydrology and geochemistry at the proposed Yucca Mountain repository in preparation for the upcoming ACNW working group meeting on unsaturated hydrology planned for December 14, 1993.

Ms. Deering reported on several issues discussed during the meetings that the Committee should track. These include:

- Perched groundwater-effect on groundwater travel time (GWTT) and repository performance, and the effects of heat on formation of perched zones
- Performance Assessment abstraction/roll up -- How can mechanistic models, process models and research be integrated or abstracted into the total systems performance assessment (TSPA)? How can the results of TSPA be used to guide the research? Can the salient detail and uncertainty be retained and carried through? Communication problems are evident between the researchers and those doing performance assessment. No real successes have yet become apparent.
- Need for greater emphasis in site characterization testing and research on fracture flow
- Need for geochemical evidence to verify infiltration rates, rapid flow paths, matrix versus fracture flow, and groundwater travel time
- Large Scale Heater Block tests -- test design, status, and how results will be used
- Not enough emphasis on post-emplacement performance
- Need for greater emphasis on coupled processes
- Importance of pneumatic pathways and concern for test interference
- Lack of data for TSPA
- Concern about usefulness of natural analogs

- Emerging theme that TSPA will need to rely on use of research to bound parameter values, rather than reflect realistic understandings of processes (from FOCUS 93 conference)
- Limitations in data collection and testing techniques

This briefing was for information only. No Committee action was taken at this meeting as a result of this briefing.

III. BRIEFING ON TECHNICAL TRAINING PROGRAMS BY THE OFFICE FOR ANALYSIS AND EVALUATION OF OPERATIONAL DATA (AEOD) (Open)

[Note: Mr. Howard J. Larson was the Designated Federal Official for this portion of the meeting.]

Mr. Edward Jordan, Director, AEOD, was the initial presenter. He introduced two accompanying members of his staff, Messrs. Steven Showe and John Ricci. Mr. Jordan stated that the AEOD staff was reexamining its training programs and, when the changes were ready for comment, he intended to ask for advice from the Committee. At this meeting, however, it was only his desire to convey background information to the Committee.

He noted that AEOD has two internal advisory groups, a Training Advisory Group (mainly comprised of supervisors from the regional and program offices) and a Training Advisory Council, which is primarily comprised of Deputy Office Director-level personnel from RES, NMSS, NRR and a region.

The technical training program that his staff administers consists of approximately 32 full time equivalents and expends approximately \$5 million annually. The training is heavily oriented toward the nuclear reactor program.

The probabilistic risk assessment (PRA) program and the Agreement States training programs, which in the past have been managed by others (although conducted at Mr. Jordan's facilities), will now be included in the activities of the overall technical training program.

A brief background and overview of the technical training program was provided by Messrs. Jordan, Showe and Ricci, with the emphasis placed on materials, health physics and radioactive waste-related types of training issues. The presentation stimulated several questions, as follows:

Dr. Hinze queried whether continuing education is recognized as a need. Mr. Jordan stated that the NRC inspectors, for

example, indicated their need for further training and that the training program recognized the value of continuing education. In response to another question from Dr. Hinze, it was stated that mixed waste, per se, is not discussed in any of the training programs.

In response to a question from Dr. Pomeroy, it was noted that while PRA training is conducted, there is not yet a formal PA training program administered by AEOD.

Dr. Steindler asked whether quality assessment (QA) requirements for recertification had been considered. After responding in the negative, Mr. Jordan indicated that perhaps the NRC had focused too much in the past on the QA process rather than viewing it as a system. Dr. Steindler stated he was gratified by such a response.

Dr. Steindler asked whether the recent reports to, and exchanges with, the U.S. Congress have impacted the training programs and was told that, while there have been changes in the brachytherapy presentation, responsive changes have not been reflected throughout the range of courses.

Dr. Moeller questioned whether post-course evaluations were performed and was informed that they are performed approximately 6-12 months after course completion. It was also noted that user need surveys are utilized. Dr. Moeller also asked whether transportation-related topics are covered and was told that only in the two-week health physics course is transportation noted.

Mr. Jordan stated that the Technical Training Center issued two technical information bulletins discussing abnormal occurrences and that this approach will be further utilized in the future.

The Committee asked for various documents (course outlines, syllabus, schedule, etc.) which were provided to the designated Federal Official for subsequent transmittal.

In closing, Mr. Jordan indicated that it would be another few months before he would be prepared to send the proposed changes to the technical training program to the ACNW for comment. He also invited the members to visit the Technical Training Center at Chattanooga, Tennessee, should such a visit be of interest.

Dr. Moeller thanked the presenters for a most interesting session and indicated that the Committee was looking forward to receiving and providing comments on the proposed changes.

IV. DISCUSSION ON WHITE PAPER (Open)

[Note: Mr. Howard J. Larson was the Designated Federal Official for this portion of the meeting.]

The Committee continued its work on the preparation of a three part "White Paper" that addresses the Committee operational plan, major nuclear waste program issues for ACNW review, and resource requirements. The primary effort was to incorporate comments and suggestions made by Commissioners Rogers and de Planque during a meeting with Drs. Moeller and Steindler on October 28, 1993.

[The White Paper was transmitted to the Commission on November 10, 1993.]

V. APPOINTMENT OF NEW MEMBERS (Closed)

[Note: Mr. Richard Major was the Designated Federal Official for this portion of the meeting.] This session was held on October 27, 1993, from 6:15 to 6:25 p.m. This portion of the meeting was closed to public attendance pursuant to 5 U.S.C. 552b(c)(2) to discuss matters that relate solely to internal personnel rules and practices of this Advisory Committee and pursuant to 5 U.S.C. 552b(c)(6), to discuss information of a personal nature the release of which would constitute a clearly unwarranted invasion of personal privacy.]

Dr. Larkins reported on the status of three candidates recommended to the Commission. The members discussed several options for staggering the terms of office for future members.

[The meeting was recessed on Wednesday at 6:25 p.m. The meeting was reconvened on Thursday at 1:00 p.m.]

VI. EXECUTIVE SESSION (Open)

[Note: Mr. Richard K. Major was the Designated Federal Official for this part of the meeting.]

A. ACRS/ACNW Fellowship Program

Dr. Larkins discussed the status of a draft Manual Chapter that defines the objectives, responsibilities, requirements, and procedures to implement and operate a Fellowship Program for ACRS and ACNW. The final draft will be presented to the Committee for comment during the 59th ACNW meeting in November.

B. CNWRA Technical Assistance Support for U.S. Environmental Protection Agency

The members discussed the Commission's recent approval (SECY-93-280) of the EPA request for CNWRA technical assistance with the review of the DOE performance assessment at the Waste Isolation Pilot Plant, preparation of a format and content guide, and other activities. Dr. Pomeroy requested that the Committee be briefed on this subject.

C. Formal Elicitation of Expert Judgment

Dr. Pomeroy discussed the results of a recent study conducted by the CNWRA on formal elicitation of expert judgment on predicting climate (temperature and precipitation) out to 1,000 years. The purpose of this study was to determine the major issues and concerns that may challenge the expert judgment process.

D. Future Committee Activities

- The Committee approved Dr. Moeller's request that he respond affirmatively to an invitation to present a paper summarizing ACNW views on high-level radioactive waste repository standards at the American Nuclear Society 1994 International High-Level Radioactive Waste Management Conference, May 22-26, 1994, in Las Vegas, Nevada. Although the paper will be authored by all four current members of the Committee, Dr. Moeller was asked to make it clear to the conference organizers that he would be presenting the paper as a former ACNW member and current Committee consultant. A draft abstract of the paper, entitled "Standards for High-Level Radioactive Waste Repositories," was revised and approved for submittal to the Conference Program Committee.
- The Committee agreed to hold the 59th ACNW meeting at the Phillips Building in Bethesda, Maryland, on November 15-16, 1993. [Subsequent to the meeting, the Committee agreed to cancel the meeting on November 15-16, 1993.] The 59th ACNW meeting will be held at the St. Tropez Conference Center in Las Vegas, Nevada, on December 13, 1993. A Working Group meeting on Characterization of the Unsaturated Zone Flow and Transport Properties will be held on December 14, 1993, in the same location. A tour of the Yucca Mountain site has been scheduled on December 15, 1993.
- The Working Group meetings on Low-Level Radioactive Waste Performance Assessment, previously scheduled for December

14, 1993, and on NRC Staff Capabilities in Performance Assessment and Computer Modeling of High-Level Waste Disposal Facilities, previously scheduled for December 17, 1993, were postponed into early 1994.

- The Committee agreed to participate on November 3, 1993, in a tutorial conducted by the NRC staff (NMSS and RES) to examine the methodologies involved in calculating a complementary cumulative distribution function (CCDF).
- The Committee agreed to propose a postponement of its scheduled October meeting with the NRC Commissioners until several substantive issues have been reviewed by the Committee.
- The Committee agreed to review responses from the EDO to ACNW reports during each meeting (following the procedures that have been established by the ACRS for reconciling EDO responses).
- The Committee requested that Mr. Giorgio Gnugnoli attend the National Academy of Sciences meeting on repository technology with emphasis on achieving suitable undisturbed performance, December 16-17, 1993, and present a follow-up briefing on this subject.

E. Future Meeting Agenda

Appendix IV summarizes the proposed items endorsed by the Committee for the 59th ACNW Meeting, December 13, 1993, and future Working Group meetings.

The meeting was adjourned at 4:30 p.m., Thursday, October 28, 1993.

~~SECRET~~**FOR FURTHER INFORMATION CONTACT:**

Larry W. Camper, Office of Nuclear Material Safety and Safeguards, MS 6-H-3, U.S. Nuclear Regulatory Commission, Washington, DC 20555, Telephone 301-504-3417.

Conduct of the Meeting

Barry Siegel, M.D., will chair the meeting. Dr. Siegel will conduct the meeting in a manner that will facilitate the orderly conduct of business. The following procedures apply to public participation in the meeting:

1. Persons who wish to provide a written statement should submit a reproducible copy to Larry W. Camper (address listed above). Comments must be received by October 22, 1993, to ensure consideration at the meeting. The transcript of the meeting will be kept open until November 13, 1993, for inclusion of written comments.

2. Persons who wish to make oral statements should inform Mr. Camper, in writing, by October 22, 1993. Statements must pertain to the topics on the agenda for the meeting. The Chairman will rule on requests to make oral statements. Members of the public will be permitted to make oral statements if time permits. Permission to make oral statements will be based on the order in which requests are received. In general, oral statements will be limited to approximately 5 minutes. Oral statements must be supplemented by detailed written statements, for the record. Rulings on who may speak, the order of presentation, and time allotments may be obtained by calling Mr. Camper, 301-504-3417, between 9 a.m. and 5 p.m. E.S.T., on October 28 or 29, 1993.

3. At the meeting, questions from attendees other than committee members, NRC consultants, and NRC staff will be permitted at the discretion of the Chairman.

4. The transcript, minutes of the meeting, and written comments will be available for inspection, and copying, for a fee, at the NRC Public Document Room, 2120 L Street NW., Lower Level, Washington 20555, on or about November 26, 1993.

5. Seating for the public will be on a first-come, first-served basis.

In accordance with section 10(d) of the Federal Advisory Committee Act (5 U.S.C. App.), it is necessary to close the portion of this meeting devoted to the review of physicians' credentials because it will involve a discussion of information the release of which would represent a clearly unwarranted invasion of personal privacy under 5 U.S.C. 552b(c)(6).

This meeting will be held in accordance with the Atomic Energy Act of 1954, as amended (primarily section 161a); the Federal Advisory Act (5 U.S.C. App); and the Commission's regulations in Title 10 Code of Federal Regulations, part 7.

Dated: October 13, 1993.

John C. Hoyle,

Advisory Committee Management Officer.

[FR Doc. 93-25584 Filed 10-18-93; 8:45 am]

BILLING CODE 7590-01-M

*** Advisory Committee on Nuclear Waste; Meeting**

The Advisory Committee on Nuclear Waste (ACNW) will hold its 58th meeting on Wednesday and Thursday, October 27-28, 1993, in the Connecticut Room, Holiday Inn, 8120 Wisconsin Avenue, Bethesda, MD, 8:30 a.m. until 6 p.m. each day. Notice of this meeting was published in the Federal Register on September 23, 1993 (58 FR 49531).

The entire meeting will be open to public attendance, with the exception of a portion that may be closed to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy pursuant to 5 U.S.C. 552b(c)(6).

During this meeting, the Committee plans to consider the following:

1. The Committee will continue its discussions of matters related to implementation plans for future ACNW activities. These will include the preparation of reports on ACNW protocols, topics for review, and resource requirements.

2. The Committee will continue its discussions of matters related to the appointment of new members, and organizational and personnel matters related to the ACNW members and ACNW staff. Portions of this session may be closed to public attendance to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy pursuant to 5 U.S.C. 552b(c)(6).

3. The Committee will hear reports from ACNW members and staff on recent technical meetings that they have attended. Topics will include: Radionuclide migration and related near-field phenomena, hydrological research, the Exploratory Studies Facility, and surface-based testing associated with the Yucca Mountain Project.

4. The Committee will elect ACNW officers for CY 1994.

5. The Committee will be briefed on the NRC staff unsaturated groundwater flow phenomenon.

6. The Committee will discuss topics proposed for consideration during future ACNW meetings.

7. The Committee will be briefed by the NRC's Office for Analysis & Evaluation of Operational Data on technical training programs.

Procedures for the conduct of and participation in ACNW meetings were published in the Federal Register on June 6, 1988 (53 FR 20699). 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, and questions may be asked only by members of the Committee, its consultants, and staff. The office of the ACRS is providing staff support for the ACNW. Persons desiring to make oral statements should notify the Executive Director of the office of the ACRS as far in advance as practical so that appropriate arrangements can be made to allow the necessary time during the meeting for such statements. Use of still, motion picture, and television cameras during this meeting may be limited to selected portions of the meeting as determined by the ACNW Chairman. Information regarding the time to be set aside for this purpose may be obtained by contacting the Executive Director of the Office of the ACRS, Dr. John T. Larkins (telephone 301/492-4516), 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 check with the ACNW Executive Director or call the recording (301/492-4600) for the current schedule if such rescheduling would result in major inconvenience.

I have determined in accordance with subsection 10(d) Public Law 92-463 that it is necessary to close portions of this meeting noted above to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy pursuant to 5 U.S.C. 552b(c)(6).

Dated: October 13, 1993.

John C. Hoyle,

Advisory Committee Management Officer.

[FR Doc. 93-25585 Filed 10-18-93; 8:45 am]

BILLING CODE 7590-01-M

[Docket No. 50-271]

Vermont Yankee Nuclear Power Station; Receipt of Petition

Notice is hereby given that on September 1, 1993, Messrs. Richard



APPENDIX II

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

October 18, 1993

SCHEDULE AND OUTLINE FOR DISCUSSION
58TH ACNW MEETING
OCTOBER 27-28, 1993
BETHESDA, MARYLAND

Wednesday, October 27, 1993, Connecticut Room, Holiday Inn, 8120 Wisconsin Avenue, Bethesda, Md.

1) 8:30 - 9:00²⁰ a.m.

Opening Remarks by ACNW Chairman (Open)

1.1) Opening statement

1.2) Items of Current Interest (DWM/RKM)

2) 9:00²⁰ - 10:30^{11:00} a.m.

Technical Meeting Reports (Open) (PWP/LGD)

The Committee will hear reports from ACNW members and ACNW staff on recent technical meetings that have been attended.

2.1) Radionuclide migration and related near-field phenomena

2.2) Hydrological research

2.3) Exploratory Studies Facility

2.4) Surface-based testing associated with Yucca Mountain Project

11:00 - 11:10^{11:10}
10:30 - 10:45 a.m.

* * * B R E A K * * *

3) 11:10^{11:10} - 12:00¹⁵ Noon

Briefing on Technical Training Programs by NRC's Office for Analysis and Evaluation of Operational Data (Open) (DWM/HJL)

15¹⁵ 2:00
12:00 - 1:00 p.m.

* * * L U N C H * * *

4) 2:00 - 3:00^{4:10} p.m.

Discuss ACNW White Paper (Open)

The Committee will continue its work on a White Paper related to implementation plans for future activities. Elements of this paper will include:

1) Protocols for ACNW operations

2) Topics for review by the ACNW

3) Resources required by the ACNW

4:10 - 4:25^{4:25}
3:00 - 3:15 p.m.

* * * B R E A K * * *

[= Transcribed portion of meeting

5) 3:15 - 4:30 p.m. Committee Activities/Future Agenda (Open)
(DWM/RKM)

Discuss anticipated and proposed Committee activities, future meeting agenda, administrative and organizational matters, as appropriate

5.1) Finalize plans for 59th ACNW Meeting (November 15-16, 1993)

5.2) Review plans for 60th ACNW Meeting and Yucca Mountain Site Tour (December 15-16, 1993)

5.3) Review activities through January 1994

5.4) Review Working Group schedules

5.5) Nomination and election of ACNW CY 1994 Officers

5.6) Selection of meeting dates for CY 1994

6) 4:30 - ~~5:30~~ ^{6:25} p.m.Appointment of New Members (Tentative/Closed)

The Committee will continue its discussion of the qualifications of potential candidates for nomination to ACNW membership, and organizational and procedural matters related to ACNW members and ACNW staff. [Note: Portions of this session may be closed to public attendance to discuss matters the release of which would represent a clearly unwarranted invasion of personal privacy pursuant to 5 U.S.C. 552b(c)(6).]

^{6:25}
~~5:30~~ p.m.

RECESS

Thursday, October 28, 1993, Connecticut Room, Holiday Inn, 8120 Wisconsin Avenue, Bethesda, Md.

No morning meeting
7) ~~8:30 - 12:00~~ Noon

Continue Work on the White Paper (Open)

12:00 - 1:00 p.m.

* * * L U N C H * * *

^{4:30}
8) 1:00 - ~~5:00~~ p.m.

Preparation of ACNW Reports (Open)

9.1) Findings and Final Draft of the White Paper

^{4:30}
~~5:00~~ p.m.

ADJOURN

APPENDIX III: MEETING ATTENDEES

58TH ACNW MEETING
OCTOBER 27-28, 1993

<u>ACNW MEMBERS</u>	<u>1st Day</u>	<u>2nd Day</u>
Dr. William J. Hinze	<u>X</u>	<u>X</u>
Dr. Dade W. Moeller	<u>X</u>	<u>X</u>
Dr. Paul W. Pomeroy	<u>X</u>	<u>X</u>
Dr. Martin J. Steindler	<u>X</u>	<u>X</u>

<u>ACNW STAFF</u>	<u>1st Day</u>	<u>2nd Day</u>
Ms. Lynn F. Deering	<u>X</u>	<u>X</u>
Mr. Giorgio N. Gnugnoli	<u>X</u>	<u>X</u>
Dr. John T. Larkins	<u>X</u>	<u>X</u>
Mr. Howard J. Larson	<u>X</u>	<u>X</u>
Mr. Richard K. Major	<u>X</u>	<u>X</u>
Dr. Richard P. Savio	<u>X</u>	
Mr. H. Stanley Schofer	<u>X</u>	<u>X</u>

ATTENDEES FROM THE NUCLEAR REGULATORY COMMISSION

Abraham Eiss	NMSS
Edward Jordan	AEOD
John Ricci	AEOD/TTC
Steve Showe	AEOD/TTC
H. Kay Whitfield	OCM/GD

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC

Lester Berkowitz	CRWMS, M&O
Ray Clark	EPA
John Cowles	TRW/CRWMS, M&O
Terry Crump	OCWRM/Weston
Gene Roseboom	USGS/Directors Office
Sharon Skuchko	Department of Energy

. Appendix III
58th ACNW Meeting

2

Lola Sterbent
Ray Wallace
Jim York

Newman and Holtzinger
USGS/Headquarters
Weston

APPENDIX IV: FUTURE AGENDA

Future ACNW Activities - The Committee will conclude its discussions of matters related to implementation plans for future ACNW activities. These will include the preparation of reports on ACNW protocols, topics for review, and resource requirements. (Tentative)

Appointment of New Members - The Committee will continue its discussions of matters related to the appointment of new members, and organizational and personnel matters related to the ACNW members and ACNW staff. Portions of this session may be closed to public attendance to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy pursuant to 5 U.S.C. 552b(c)(6).

Election of ACNW Officers - The Committee will elect ACNW officers for Calendar Year 1994.

Topical Report Position Paper - The Committee will be briefed by the NRC staff on a Topical Report Position Paper which discusses how the staff intends to handle topical reports in the high-level waste arena.

Adequacy of Spent Nuclear Fuel and High-Level Radioactive Waste Management Plans - The Committee will be briefed by the Department of Energy on their recent "Report to Congress on Adequacy of Spent Nuclear Fuel and High-Level Radioactive Waste Management Plans for Future Generations."

National Academy of Sciences Activities - The Committee will discuss with the NRC staff the staff's views on the major issues involved in developing standards for disposal of high-level wastes and developments on this subject by the National Academy of Sciences.

Agreements Between the NRC and DOE - The Committee will discuss revised procedural and project-specific agreements between the NRC and DOE.

Future ACNW Meetings - The Committee will discuss topics proposed for consideration during future ACNW meetings and future meeting dates for Calendar Year 1994.

APPENDIX V
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

AGENDA

DOCUMENTS

ITEM NO.

1 Chairman's Report

1. Items of Possible Interest to ACNW Members and Staff, dated October 21, 1993, prepared by Dade Moeller
2. Memorandum to Richard Major from Dade Moeller, dated October 22, 1993, regarding Revised Procedural and Project-Specific Agreements
3. Memorandum to Richard Major from Dade Moeller, dated October 22, 1993, regarding NRC Five-Year Plan
4. Memorandum to Distribution from Martin Steindler, dated October 22, 1993, regarding Items of Possible Interest
5. Underground Exploration and Testing at Yucca Mountain, A Report to Congress and the Secretary of Energy, Nuclear Waste Technical Review Board, October 1993

2 Technical Meeting Reports

6. Notes on Three Meetings Attended by Ms. Lynn Deering, undated

3 Briefing on Technical Training Programs by NRC's Office for Analysis and Evaluation of Operational Data

7. NRC Technical Training Program, undated [Viewgraphs]

4 ACNW White Paper

8. Memorandum for Commissioner Rogers and de Planque from John Larkins, dated October 21, 1993, regarding Draft Version of ACNW White Paper, with enclosure

8 Preparation of ACNW Reports

9. The President Executive Order 12866 - Regulatory Planning and Review (Federal Register Notice Vol. 58, No. 190, 551735, Monday October 4, 1993)

MEETING NOTEBOOK CONTENTS

No meeting notebook was prepared.

**Specific Comments on Waste Characterization Data
B&W Apollo, PA Facility**

June 1989 Parking Lot Characterization

- 1) B&W performed the Extraction Procedure Toxicity Test (EP), instead of the Toxicity Characteristic Leaching Procedure (TCLP) test on the soil (the EP test was the required test in 1989 for the characteristic of toxicity). The EP test does not include all current TCLP constituents and included different test procedures. As such, the results of this evaluation are not conclusive with respect to the characteristic of toxicity but could be used, in conjunction with additional TCLP testing, to support an assertion that the waste did not exhibit the characteristic of toxicity.
- 2) The report indicates samples exhibiting > 250 mg/kg reactive cyanide (HCN) are considered reactive. The Environmental Protection Agency (EPA) considers total cyanide at concentrations > 250 mg/kg to be reactive. This may indicate that the criteria used by B&W was more conservative than that used by EPA.
- 3) Table 4-1 reports the EP test results in ppm, or as not detected. Table H-1 (a more detailed presentation of the data in Appendix H) reports them in mg/ml, usually as less than a set value. It is unclear if the Table 4-1 and Table H-1 results are EP test results or total constituent analysis (TCA) results (i.e., results of the analysis using the EP test or if the results are of the total hazardous constituents in the soil). In addition, it appears that the H-1 table numbers were transposed to Table 4-1 without converting from mg/l to ppm. As such, the values in 4-1 may be in error (i.e., 1 mg/l = 1 part per thousand not 1 part per million, assuming a specific gravity of 1 mg/ml).

Fall/Winter 1990 Hydrogeologic Assessment

- 1) The report states that 19 samples were taken, while the data indicates that these samples were taken at only 8 locations, mainly in the parking lot or on the northwest side of the Apollo facility. This may limit the utility of the information with respect to the assertion that no mixed waste is present at the site. However, this information could be used to support the assertion, as long as additional data on the concentration of hazardous material in the soil was obtained. In addition, one sampling location, monitoring well 15B, could not be located on the map supplied by B&W.
- 2) It appears that the test results are reported in ppm of constituent of interest in the soil sample, not after performing the TCLP on the soil sample. This may be acceptable for TCA and to demonstrate that the

Enclosure

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IG: YES 2 NO
(Raza)