



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, DC 20555 - 0001**

May 22, 2009

**AGENDA
563rd ACRS MEETING
JUNE 3-5, 2009**

**WEDNESDAY, JUNE 3, 2009, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 1) 8:30 – 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (MVB/EMH/SD)
 - 1.1) Opening statement
 - 1.2) Items of current interest

- 2) 8:35 – 9:45 A.M. License Renewal Application and the Revised Final Safety Evaluation Report for the National Institute of Standards and Technology (NIST) Reactor (Open) (JDS/PW)
 - 2.1) Remarks by the Subcommittee Chairman
 - 2.2) Briefing by and discussions with representatives of the NRC staff and NIST regarding the License Renewal Application for the NIST Reactor, the associated NRC staff's revised final SER, and related matters.

Members of the public may provide their views, as appropriate.

9:45 – 10:00 A.M. * BREAK *****

- 3) 10:00 – 12:00 P.M. Draft Final Regulatory Guides 1.21 and 4.1 (Open) (MTR/NMC)
 - 3.1) Remarks by the Subcommittee Chairman
 - 3.2) Briefing by and discussions with representatives of the NRC staff regarding Draft Final Regulatory Guide 1.21 (DG-1186), "Measuring, Evaluating, and Reporting Radioactive Materials in Liquid and Gaseous Effluents and Solid Wastes," and related matters.
 - 3.3) Briefing by and discussions with representatives of the NRC staff regarding Draft Final Regulatory Guide 4.1 (DG-4013), "Radiological Environmental Monitoring for Nuclear Power Plants," and related matters.

Representatives of the nuclear industry and members of the public may provide their views, as appropriate.

12:00 – 1:00 P.M. * LUNCH *****

- 4) 1:00 – 3:00 P.M. Pellet-Clad Interaction Failures under Extended Power Uprate Conditions (Open/Closed) (JSA/MLB)
- 4.1) Remarks by the Subcommittee Chairman
 - 4.2) Briefing by and discussions with representatives of the NRC staff and nuclear industry regarding pellet-clad interaction failures under extended power uprate conditions, and related matters.

Members of the public may provide their views, as appropriate.

[NOTE: A portion of this Session may be closed pursuant to 5 U.S.C. 552b (c)(4) to discuss information that is proprietary to Global Nuclear Fuel (GNF) and/or Westinghouse, or their contractors]

3:00 – 3:15 P.M. * BREAK *****

- 5) 3:15 – 4:45 P.M. Diversity and Defense-in-Depth Topical Report Associated with the US-APWR Design (Open) (OLM/NMC)
- 5.1) Remarks by the Subcommittee Chairman
 - 5.2) Briefing by and discussions with representatives of the NRC staff and Mitsubishi Heavy Industries, Ltd. regarding the Diversity and Defense-in-Depth Topical Report and the associated NRC staff's Safety Evaluation report associated with the US-Advanced Pressurized Water Reactor (US-APWR) Design and related matters.

Members of the public may provide their views, as appropriate.

[NOTE: A portion of this Session may be closed pursuant to 5 U.S.C. 552b (c)(4) to discuss information that is proprietary to Mitsubishi Heavy Industries and/or its contractors]

4:45 – 5:00 P.M. * BREAK *****

- 6) 5:00 – 5:15 P.M. Subcommittee Report (Open) (GEA/DCB/GSS/YKS)
- Report by and discussions with the Chairmen of the Reliability and PRA Subcommittee regarding (i) proposed Rev. 1 to Regulatory Guide 1.205, "Risk-Informed, Performance-Based Fire Protection for Existing Light-Water Nuclear Power Plants," and proposed Standard Review Plan Section 9.5.1.2, "Risk-Informed, Performance-Based Fire Protection," (ii) development of guidelines for performing human reliability analysis in fire probabilistic risk assessments, and (iii) risk metrics for new light-water reactor risk-informed applications, that were discussed during the meeting on June 1-2, 2009.

- 7) 5:15 – 7:00 P.M. Preparation of ACRS Reports (Open)
Discussion of proposed ACRS reports on:
- 7.1) License Renewal Application and the Revised Final Safety Evaluation Report for the National Institute of Standards and Technology (NIST) Reactor (JDS/PW)
 - 7.2) Draft Final Regulatory Guides 1.21 and 4.1 (MTR/NMC)
 - 7.3) Pellet-Clad Interaction Failures under Extended Power Uprate Conditions (JSA/MLB)
 - 7.4) Diversity and Defense-in-Depth Topical Report Associated with the US-APWR Design (OLM/NMC)

THURSDAY, JUNE 4, 2009, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 8) 8:30 – 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (MVB/CS/SD)
- 9) 8:35 – 9:30 A.M. Quality Assessment of Selected Research Projects (Open) (DAP/HPN)
- 9.1) Remarks by the Subcommittee Chairman
 - 9.2) Report by and discussions with members of the ACRS Panels which performed the quality assessment of the NRC research projects on: NUREG/CR-6964, "Crack Growth Rates and Metallographic Examinations of Alloy 600 and Alloy 82/182 from Field and Laboratory Materials Testing in PWR Environments," and Draft NUREG/CR-XXXX, "Diversity Strategies for Nuclear Power Plant Instrumentation and Control Systems."
- 9:30 – 9:45 A.M. *** BREAK *****
- 10) 9:45 – 10:45 A.M. Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open/Closed) (MVB/EMH)
- 10.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the Full Committee during future ACRS meetings.
 - 10.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.

[NOTE: A portion of this session 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 ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy]

- 11) 10:45 – 11:00 A.M. Reconciliation of ACRS Comments and Recommendations (Open) (MVB/CS/AFD)
Discussion of the responses from the NRC Executive Director for Operations to comments and recommendations included in recent ACRS reports and letters.
- 11:00- 11:15 A.M. ***BREAK*****
- 12) 11:15 – 12:15 P.M. Discussion of Topics for Meeting with the Commission (Open) (MVB, et al./EMH, et al.)
Discussion of following topics for meeting with the Commission:
- Overview
 - Crediting Containment Accident Pressure in the NPSH Calculations
 - Pressurized Thermal Shock Rule
 - Digital Instrumentation and Control Matters
 - Options to Revise NRC Regulations Based on the International Commission on Radiation Protection (ICRP) Recommendations / Progress on Recommendations of the Independent External Review Panel on the Materials Licensing Program
- 12:15 – 1:30 P.M. *** LUNCH *****
- 13) 1:30 – 3:30 P.M. Meeting with the Commission (Open) (MVB, et al. /EMH, et al.)
Meeting with the Commission, Commissioners' Conference Room, One White Flint North, to discuss topics listed under Item 12.
- 3:30 – 4:00 P.M. *** BREAK *****
- 14) 4:00 – 7:00 P.M. Preparation of ACRS Reports (Open)
Discussion of proposed ACRS reports on:
- 14.1) License Renewal Application and the Revised Final Safety Evaluation Report for the National Institute of Standards and Technology (NIST) Reactor (JDS/PW)
 - 14.2) Draft Final Regulatory Guides 1.21 and 4.1 (MTR/NMC)
 - 14.3) Pellet-Clad Interaction Failures under Extended Power Uprate Conditions (JSA/MLB)
 - 14.4) Diversity and Defense-in-Depth Topical Report Associated with the US-APWR Design (OLM/NMC)

**FRIDAY, JUNE 5, 2009, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 15) 8:30 – 12:30 P.M. Preparation of ACRS Reports (Open)
(10:30-10:45 A.M. BREAK) Continue discussion of the proposed ACRS reports listed under Item 14.
- 16) 12:30 – 1:00 P.M. Miscellaneous (Open) (MVB/EMH)
Discussion of matters related to the conduct of Committee activities and specific issues that were not completed during previous meetings, as time and availability of information permit.

NOTES:

- During the days of the meeting, phone number 301-415-7360 should be used in order to access anyone in the ACRS Office.
- 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 ACRS in advance of the briefing.