



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

May 23, 2007

The Honorable Dale E. Klein
Chairman
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Dear Chairman Klein:

SUBJECT: SUMMARY REPORT - 542nd MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, MAY 3-5, 2007, AND OTHER RELATED ACTIVITIES OF THE COMMITTEE

During its 542nd meeting, May 3-5, 2007, the Advisory Committee on Reactor Safeguards (ACRS) discussed several matters and completed the following reports and memoranda:

REPORTS

Reports to Dale E. Klein, Chairman, NRC, from William J. Shack, Chairman, ACRS:

- Development of an Integrated Long-Term Regulatory Research Plan, dated May 16, 2007
- Draft Commission Paper on Staff Plan Regarding a Risk-Informed and Performance-Based Revision to 10 CFR Part 50, dated May 16, 2007
- Activities Related to Digital Instrumentation and Control Systems, dated May 18, 2007
- Proposed Technical Basis for the Revision to 10 CFR 50.46 LOCA Embrittlement Criteria for Fuel Cladding Materials, dated May 23, 2007

MEMORANDA

Memoranda to Luis A. Reyes, Executive Director for Operations, NRC, from Frank P. Gillespie, Executive Director, ACRS:

- Draft Regulatory Guide DG-1132, "Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants," dated May 8, 2007
- Draft Regulatory Guide DG-1173, "Guidance on Monitoring and Responding to Reactor Coolant System Leakage," dated May 8, 2007

HIGHLIGHTS OF KEY ISSUES

1. Digital Instrumentation and Control (I&C) System Matters

The Committee met with representatives of the NRC staff and the Nuclear Energy Institute (NEI) to discuss the industry and NRC staff activities for addressing digital I&C issues. NEI representatives discussed ongoing short-term and long-term industry activities on digital I&C and described frequent meetings with the digital I&C Steering Committee of the NRC to prioritize needs and resources. In general, NEI agrees with the NRC approach to addressing digital I&C issues, but considers implementation of analog backups to digital I&C to be unnecessary and overly complicated for providing necessary levels of diversity and defense in depth (D3). NEI is working with the Electric Power Research Institute (EPRI) to develop technical papers on methods for ensuring D3.

The staff described digital I&C Steering Committee activities, D3 research, and risk-informing reviews of digital I&C systems. The staff's draft project plan identifies issues and describes specific Task Working Group activities associated with cyber security, highly integrated control room communications and human factors, D3, risk-informed reviews of digital I&C systems, and licensing process issues. The development of guidance for adequate levels of D3 is the most urgent need to support new reactor licensing in the near term. The staff plans to address several issues associated with D3 including defining adequate diversity, criteria for manual actions, and guidance on common-cause effects. Since the current guidance uses a deterministic approach for licensing a digital system, the staff is identifying challenges with implementing risk-informed methods such as modeling issues and development of a review process consistent with current regulations.

Committee Action

The Committee issued a report to the NRC Chairman on this matter, dated May 18, 2007, concurring with the staff's approach to developing a project plan that defines a process to improve deployment of digital I&C technology for new and operating reactors. The Committee recommended that (1) the staff develop an inventory and classification of the various types of digital and software systems that are being used or are likely to be used in nuclear power plants and (2) the staff evaluate operating experience with digital systems in nuclear and other industries to obtain insights regarding potential failure modes. The Committee also recommended that the information obtained through performing the activities in these recommendations be used in the development of regulatory guidance on diversity and defense in depth for digital I&C systems.

2. Commission Paper on Staff's Recommendation Regarding a Risk-Informed and Performance-Based Revision to 10 CFR Part 50

The Committee met with representatives of the NRC staff to discuss the staff's proposed recommendation to the Commission regarding the development of a risk-informed and performance-based revision to 10 CFR Part 50 for future plant licensing (i.e., a new 10 CFR Part 53). The staff proposes to defer this rulemaking until the licensing strategy for the Next Generation Nuclear Plant (NGNP) is completed. This recommendation is based on: stakeholder comments to "test" the draft requirements before codifying them; the near term impact on design certifications and combined license applications; the potential impact on NGNP licensing strategy development; and the potential impact on longer-term projects such as the Global Nuclear Energy Partnership. The staff noted that the current regulatory structure

contains requirements that may not be applicable to advanced reactor designs. Advanced reactors also have design and operational issues different from light-water reactors (LWRs). The discussion covered certain advanced reactor policy issues raised in the advance notice of proposed rulemaking (ANPR) issued in May of 2006, a summary of the public comments received on the ANPR and policy issues, as well as a high-level discussion of the technology-neutral regulatory framework.

The staff stated that stakeholders generally supported the development of risk-informed requirements for future reactor designs but did not want it to disrupt near-term plans for LWR design certifications and combined license applications or ongoing risk-informed initiatives. Stakeholders suggested that the draft requirements derived from the framework be compared to requirements derived from 10 CFR Parts 50 and 52. The framework could then be adjusted based on this comparison before initiating rulemaking. The Committee members discussed the best way to test the framework (i.e., on a LWR or a non-LWR).

Policy issues discussed during the meeting included: level-of-safety and integrated risk; defense in depth; single failure criterion; containment performance standards; and the integration of safety, security, and emergency preparedness. The staff summarized stakeholders' comments associated with each issue. The staff indicated that it planned to publish NUREG-1860, "Framework for Development of a Risk-Informed, Performance-Based Alternative to 10 CFR Part 50," in the summer of 2007.

Committee Action

The Committee issued a report to the NRC Chairman on this matter, dated May 16, 2007, concurring with the staff's recommendation to defer development of a new 10 CFR Part 53 until the licensing strategy for the NGNP is completed and recommending that work on the technology-neutral regulatory framework continue so that it can help guide the development of the NGNP licensing strategy. The Committee also noted that there are important issues, critical to the development of the framework, that are still being debated within the ACRS and recommended that NUREG-1860 not be finalized until the Committee reaches a position on these issues and discusses them with the staff.

3. Status of the Development of an Integrated Long-Term Regulatory Research Plan

The Committee met with representatives of the NRC staff regarding the staff's activities associated with the development of an integrated long-term regulatory research plan. The staff described the objectives of the agency-wide, long-term regulatory research plan as well as a summary of proposed activities for Fiscal Year 2009. The staff noted that the focus of the long-term research plan is on anticipated future needs which are not currently identified in other NRC planning documents. The staff identified four broad areas of long-term research activities: research to support licensing of nuclear facilities developed for the Department of Energy's Global Nuclear Energy Partnership; research to support reactor license renewal beyond 60 years; research activities associated with possible development of experimental facilities; and cross-cutting and emergent technologies. The staff also noted that the long-term regulatory research is a living document and will be updated periodically. The Committee members commented that the focus of the work proposed by the staff is different from that emphasized for long-term research in recent ACRS biennial reports on Review and Evaluation of the NRC Safety Research Program. The Committee members also commented on several of the specific long-term research projects.

Committee Action

The Committee issued a report to the NRC Chairman on this matter, dated May 16, 2007. The Committee also noted that it will comment in a separate forum on the broader scope of long-term research the agency needs to consider.

4. ACRS Members' Issues Associated with the Technology-Neutral Framework for Future Plant Licensing

The Committee had a discussion of individual ACRS member's issues associated with the technology-neutral regulatory framework for future plant licensing. The members' issues were divided into the following categories: Design Requirements vs. Site Requirements; Technical Issues; Policy Issues; and Philosophical Issues. The Committee has not yet reached a consensus on issues such as: preserving the concept of design-basis or licensing-basis events; separating design acceptance from site suitability; using the quantitative health objectives as the high-level risk acceptance criteria; and the need for a complimentary cumulative distribution function acceptance curve. There was general agreement among Committee members that draft NUREG-1860 was not as clear and concise as an effective framework document should be.

Committee Action

The Committee plans to continue its discussions on members' issues associated with the technology-neutral regulatory framework during the June 2007 meeting.

RECONCILIATION OF ACRS COMMENTS AND RECOMMENDATIONS/EDO COMMITMENTS

- The Committee considered the EDO's response of April 24, 2007, to comments and recommendations included in the March 22, 2007 ACRS report regarding the development of the TRACE thermal-hydraulic system analysis code. The Committee decided that it was satisfied with the EDO's response.
- The Committee considered the EDO's response of April 23, 2007, to comments and recommendations included in the March 22, 2007 ACRS letter regarding the proposed NRC staff and industry activities for addressing dissimilar metal weld issues resulting from the Wolf Creek pressurizer weld inspection. The Committee decided that it was satisfied with the EDO's response.

The staff committed to keep the Committee informed of this issue as the advanced finite element analyses being performed by industry and the staff proceed.

OTHER RELATED ACTIVITIES OF THE COMMITTEE

During the period from April 8, 2007 through May 2, 2007, the following Subcommittee meetings were held:

- Digital Instrumentation and Control Systems - April 18, 2007

The Subcommittee reviewed the NRC staff and industry activities associated with digital instrumentation and control systems.

- Safety Research Program - May 2, 2007

The Subcommittee discussed the status of staff's efforts associated with the development of an integrated, long-term regulatory research plan.

- Planning and Procedures - May 2, 2007

The Subcommittee discussed proposed ACRS activities, practices, and procedures for conducting Committee business and organizational and personnel matters relating to ACRS and its staff.

LIST OF MATTERS FOR THE ATTENTION OF THE EDO

- The Committee would like an opportunity to review the draft final version of DG-1132, "Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants," after reconciliation of public comments.
- The Committee plans to review the draft final version of DG-1173, "Guidance on Monitoring and Responding to Reactor Coolant System Leakage," after reconciliation of public comments.
- The Committee plans to have continued discussions with the staff on long-term integrated research projects.
- The Committee plans to continue its discussions on the technology-neutral regulatory framework during the June 2007 meeting.
- The Committee plans to continue working with the staff as the development and implementation of the digital I&C project plan proceed.

PROPOSED SCHEDULE FOR THE 543rd ACRS MEETING

The Committee agreed to consider the following topics during the 543rd ACRS meeting to be held on June 6-8, 2007:

- Draft NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire"
- Maximum Extended Load Line Limit Analysis Plus (MELLLA+) and Supporting Topical Reports
- Overview of the PHEBUS-FP Experimental Program and Results of Recent Tests
- ACRS Member's Issues Associated with the Technology-Neutral Framework for Future Plant Licensing

- Meeting with the Commission to Discuss Items of Mutual Interest
-
- Status of the ACRS Assessment of the Quality of Selected NRC Research Projects

Sincerely,



William J. Shack
Chairman

- Meeting with the Commission to Discuss Items of Mutual Interest
- Status of the ACRS Assessment of the Quality of Selected NRC Research Projects

Sincerely,

/RA/

William J. Shack
Chairman

- Meeting with the Commission to Discuss Items of Mutual Interest
- Status of the ACRS Assessment of the Quality of Selected NRC Research Projects

Sincerely,

/RA/

William J. Shack
Chairman

Distribution:

RidsSecyMailCenter	RidsEDOMailCenter	RidsNRROD	
RidsNMSSOD	RidsFSMEOD	RidsOCAMailCenter	
RidsOIGMailCenter	RidsOGCMailCenter	RidsASLBPMailCenter	
RidsOCAAMailCenter	RidsOPAMailCenter	RidsRGN1MailCenter	
RidsRGN2MailCenter	RidsRGN3MailCenter	RidsRGN4MailCenter	
BChamp ABates JPerry SDuraiswamy JLamb	CSantos RCaruso HNourbakshs MJunge	MBanerjee CHammer BSosa JFlack	SMcKelvin LMike ZAbdullahi DFischer

ADAMS ML071440161

OFFICE	ACRS/ACNW	ACRS/ACNW
NAME	CSantos	FGillespie/Santos Acting for
DATE	5/23/07	5/23/07

- Meeting with the Commission to Discuss Items of Mutual Interest
- Status of the ACRS Assessment of the Quality of Selected NRC Research Projects

Sincerely,

/RA/

William J. Shack

Distribution:

RidsSecyMailCenter	RidsEDOMailCenter	RidsNRROD	
RidsNMSSOD	RidsFSMEOD	RidsOCAMailCenter	
RidsOIGMailCenter	RidsOGCMailCenter	RidsASLBPMailCenter	
RidsOCAAMailCenter	RidsOPAMailCenter	RidsRGN1MailCenter	
RidsRGN2MailCenter	RidsRGN3MailCenter	RidsRGN4MailCenter	
BChamp ABates JPerry SDuraiswamy JLamb	CSantos RCaruso HNourbakshs MJunge	MBanerjee CHammer BSosa JFlack	SMcKelvin LMike ZAbdullahi DFischer

ADAMS ML071440161

OFFICE	ACRS/ACNW	ACRS/ACNW <i>CS</i>
NAME	CSantos <i>CS</i>	FGillespie/Santos Acting for
DATE	5/23/07	5/23/07

SMISS

From: John Flack
To: Carol Brown
Date: 06/04/2007 9:25:31 AM
Subject: Re: Fwd: 542nd ACRS Summary Report Letter (ML071440161) attached for SUNSI Review

Carol:

The following ACRS Summary Report can be released to the general public:

Letter to NRC Chairman Klein from William J. Shack, ACRS Chairman, dated May 23, 2007, Subject: SUMMARY REPORT - 542nd MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, MAY 3-5, 2007, AND OTHER RELATED ACTIVITIES OF THE COMMITTEE

Thanks,

John

>>> Carol Brown 05/31/2007 3:56 PM >>>
john... can you do the SUNSI Review for this? Thanks.

>>> Carol Brown 05/24/2007 11:34 AM >>>

Attached for SUNSI Review: ML071440161
SUMMARY REPORT - 542nd MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, MAY 3-5, 2007, AND OTHER RELATED ACTIVITIES OF THE COMMITTEE

Thanks.

From: Carol Brown
To: Abdullahi, Zena; Banerjee, Maitri; Bates, Andrew; Caruso, Ralph; Champ, Billie; Duraiswamy, Sam; Flack, John; Hammer, Charles; Junge, Michael; Lamb, John; McKelvin, Sheila; Mike, Linda; Nourbakhsh, Hossein; Perry, Jamila; RidsAslbpMailCenter; RidsEdoMailCenter; RidsFsmeOd; RidsNmssOd; RidsNrrOd; RidsOcaaMailCenter; RidsOcaMailCenter; RidsOgcMailCenter; RidsOigMailCenter; RidsOpaMail; RidsRgn1MailCenter; RidsRgn2MailCenter; RidsRgn3MailCenter; RidsRgn4MailCenter; RidsSecyMailCenter; Santos, Cayetano; Sosa, Belkys
Date: 05/25/2007 4:29:07 PM
Subject: Summary Report — 542nd Meeting of the Advisory Committee on Reactor Safeguards, May 3 - 5, 2007

LETTER TO: The Honorable Dale E. Klein, Chairman, NRC

FROM: William J. Shack, Chairman, ACRS

SUBJECT: Summary Report — 542nd Meeting of the Advisory Committee on Reactor Safeguards, May 3 - 5, 2007

DATED: May 23, 2007

ADAMS Accession: ML071440161.

Carol Anne Brown
Administrative Assistant
US Nuclear Regulatory Commission
Advisory Committee on Reactor Safeguards
Operations Support Branch
301-415-7998, MS T2-E26



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

May 14, 2007

MEMORANDUM TO: Carol A. Brown, Technical Secretary
Advisory Committee on Reactor Safeguards

FROM: William J. Shack 
ACRS Chairman

SUBJECT: CERTIFIED MINUTES OF THE 542st MEETING OF THE
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
(ACRS), May 3 - 5, 2007

I certify that based on my review of the minutes from the 542nd ACRS Full Committee meeting, 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.

NA
Comments

From: John Flack
To: Carol Brown
Date: 06/18/2007 7:35:44 AM
Subject: Re: attached for SUNSI Review: Minutes of the 542nd ACRS Meeting (May 3 - 5, 2007)
ML071650513

Carol: The MINUTES OF THE 542nd ACRS MEETING, dated May 3-5, 2007 can be released to the general public.

John

>>> Carol Brown 06/14/2007 4:50 PM >>>

Attached for your SUNSI Review are the Minutes of the 542nd ACRS Meeting (May 3 - 5, 2007).
ML071650513.

Thanks.

Carol Anne Brown
Administrative Assistant
US Nuclear Regulatory Commission
Advisory Committee on Reactor Safeguards
Operations Support Branch
301-415-7998, MS T2-E26

CERTIFIED

Date Issued: June 14, 2007
Date Certified: June 14, 2007

TABLE OF CONTENTS
MINUTES OF THE 542nd ACRS MEETING

May 3-5, 2007

- I. Opening Remarks by the ACRS Chairman (Open)
- II. Digital Instrumentation and Control Systems Matters (Open)
- III. Commission Paper on Staff's Recommendation to Make a Risk-Informed and Performance-Based Revision to 10 CFR Part 50 (Open)
- IV. Status of the Development of an Integrated Long-Term Regulatory Research Plan (Open)
- V. ACRS Members' Issues Associated with the Technology- Neutral Framework for Future Plant Licensing (Open)
- VI. Executive Session (Open)
 - A. Reconciliation of ACRS Comments and Recommendations
 - B. Report on the Meeting of the Planning and Procedures Subcommittee Held on May 2, 2007.
 - C. Future Meeting Agenda

REPORTS:

The following reports to Dale E. Klein, Chairman, NRC, from William J. Shack, Chairman, ACRS:

1. Development of an Integrated Long-Term Regulatory Research Plan, **dated May 16, 2007**
2. Draft Commission Paper on Staff Plan Regarding a Risk-Informed and Performance-Based Revision to 10 CFR Part 50, **dated May 16, 2007**
3. Activities Related to Digital Instrumentation and Control Systems, **dated May 18, 2007**
4. Proposed Technical Basis for the Revision to 10 CFR 50.46 LOCA Embrittlement Criteria for Fuel Cladding Materials, **dated May 22, 2007**

MEMORANDA:

The following memoranda to Luis A. Reyes, Executive Director for Operations, NRC, from, Frank P. Gillespie, Executive Director, ACRS:

1. Draft Regulatory Guide DG-1132, "Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants," **dated May 8, 2007**
2. Draft Regulatory Guide DG-1173, "Guidance on Monitoring and Responding to Reactor Coolant System Leakage," **dated May 8, 2007**

APPENDICES

- I. *Federal Register Notice*
- II. Meeting Schedule and Outline
- III. Attendees
- IV. Future Agenda and Subcommittee Activities
- V. List of Documents Provided to the Committee

MINUTES OF THE 542nd MEETING OF THE
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
May 3 - 5, 2007
ROCKVILLE, MARYLAND

The **542nd** meeting of the Advisory Committee on Reactor Safeguards (ACRS) was held in Conference Room 2B3, Two White Flint North Building, Rockville, Maryland, on **May 3 - 5, 2007**. Notice of this meeting was published in the *Federal Register* on **April 18, 2007** (72 FR **13312**) (Appendix I). The purpose of this meeting was to discuss and take appropriate action on the items listed in the meeting schedule and outline (Appendix II). The meeting was open to public attendance.

A transcript of selected portions of the meeting is available in the NRC's Public Document Room at One White Flint North, Room 1F-19, 11555 Rockville Pike, Rockville, Maryland. Copies of the transcript are available for purchase from Neal R. Gross and Co., Inc., 1323 Rhode Island Avenue, NW, Washington, DC 20005. Transcripts are also available at no cost to download from, or review on, the Internet at <http://www.nrc.gov/ACRS/ACNW>.

ATTENDEES

ACRS Members: Dr. William J. Shack (Chairman), Dr. Said Abdel-Khalik, Dr. George E. Apostolakis, Dr. Sanjoy Banerjee, Dr. Michael Corradini, Dr. Thomas S. Kress, Mr. Otto L. Maynard, Dr. Dana A. Powers and Dr. Graham B. Wallis. For a list of other attendees, see Appendix III.

I. Chairman's Report (Open)

[Note: Mr. Sam Duraiswamy was the Designated Federal Official for this portion of the meeting.]

Dr. William J. Shack, Committee Chairman, convened the meeting at 8:30 A.M. He announced in his opening remarks that the meeting was being conducted in accordance with the provisions of the Federal Advisory Committee Act. In addition, he reviewed the agenda for the meeting and noted that no written comments or requests for time to make oral statements from members of the public had been received. Dr. Shack also noted that a transcript of the open portions of the meeting was being kept and speakers were requested to identify themselves and speak with clarity and volume. He discussed the items of current interest and administrative details for consideration by the full Committee.

II. Digital Instrumentation and Control (I&C) System Matters

[Note: Mr. Michael Junge was the Designated Federal Official for this portion of the meeting.]

The Committee met with representatives of the NRC staff and the Nuclear Energy Institute (NEI) to discuss the industry and NRC staff activities for addressing digital I&C issues. NEI representatives discussed ongoing short-term and long-term industry activities on digital I&C and described frequent meetings with the digital I&C Steering Committee of the NRC to prioritize needs and resources. In general, NEI agrees with the NRC approach to addressing digital I&C issues, but considers implementation of analog backups to digital I&C to be unnecessary and overly complicated for providing necessary levels of diversity and defense in depth (D3). NEI is working with the Electric Power Research Institute (EPRI) to develop technical papers on methods for ensuring D3.

The staff described digital I&C Steering Committee activities, D3 research, and risk-informing reviews of digital I&C systems. The staff's draft project plan identifies issues and describes specific Task Working Group activities associated with cyber security, highly integrated control room communications and human factors, D3, risk-informed reviews of digital I&C systems, and licensing process issues. The development of guidance for adequate levels of D3 is the most urgent need to support new reactor licensing in the near term. The staff plans to address several issues associated with D3 including defining adequate diversity, criteria for manual actions, and guidance on common-cause effects. Since the current guidance uses a deterministic approach for licensing a digital system, the staff is identifying challenges with implementing risk-informed methods such as modeling issues and development of a review process consistent with current regulations.

III. Commission Paper on Staff's Recommendation Regarding a Risk-Informed and Performance-Based Revision to 10 CFR Part 50

[Note: Mr. David Fischer was the Designated Federal Official for this portion of the meeting.]

The Committee met with representatives of the NRC staff to discuss the staff's proposed recommendation to the Commission regarding the development of a risk-informed and performance-based revision to 10 CFR Part 50 for future plant licensing (i.e., a new 10 CFR Part 53). The staff proposes to defer this rulemaking until the licensing strategy for the Next Generation Nuclear Plant (NGNP) is completed. This recommendation is based on: stakeholder comments to "test" the draft requirements before codifying them; the near term impact on design certifications and combined license applications; the potential impact on NGNP licensing strategy development; and the potential impact on longer-term projects such as the Global Nuclear Energy Partnership. The staff noted that the current regulatory structure contains requirements that may not be applicable to advanced reactor designs. Advanced reactors also have design and operational issues different from light-water reactors (LWRs). The discussion covered certain advanced reactor policy issues raised in the advance notice of proposed rulemaking (ANPR) issued in May of 2006, a summary of the public comments received on the ANPR and policy issues, as well as a high-level discussion of the technology-neutral regulatory framework.

The staff stated that stakeholders generally supported the development of risk-informed requirements for future reactor designs but did not want it to disrupt near-term plans for LWR design certifications and combined license applications or ongoing risk-informed initiatives. Stakeholders suggested that the draft requirements derived from the framework be compared to requirements derived from 10 CFR Parts 50 and 52. The framework could then be adjusted based on this comparison before initiating rulemaking. The Committee members discussed the best way to test the framework (i.e., on a LWR or a non-LWR).

Policy issues discussed during the meeting included: level-of-safety and integrated risk; defense in depth; single failure criterion; containment performance standards; and the integration of safety, security, and emergency preparedness. The staff summarized stakeholders' comments associated with each issue. The staff indicated that it planned to publish NUREG-1860, "Framework for Development of a Risk-Informed, Performance-Based Alternative to 10 CFR Part 50," in the summer of 2007.

IV. Status of the Development of an Integrated Long-Term Regulatory Research Plan

[Note: Mr. Hossein Nourbakhsh was the Designated Federal Official for this portion of the meeting.]

The Committee met with representatives of the NRC staff regarding the staff's activities associated with the development of an integrated long-term regulatory research plan. The staff described the objectives of the agency-wide, long-term regulatory research plan as well as a summary of proposed activities for Fiscal Year 2009. The staff noted that the focus of the long-term research plan is on anticipated future needs which are not currently identified in other NRC planning documents. The staff identified four broad areas of long-term research activities: research to support licensing of nuclear facilities developed for the Department of Energy's Global Nuclear Energy Partnership; research to support reactor license renewal beyond 60 years; research activities associated with possible development of experimental facilities; and cross-cutting and emergent technologies. The staff also noted that the long-term regulatory research is a living document and will be updated periodically. The Committee members commented that the focus of the work proposed by the staff is different from that emphasized for long-term research in recent ACRS biennial reports on Review and Evaluation of the NRC Safety Research Program. The Committee members also commented on several of the specific long-term research projects.

V. ACRS Members' Issues Associated with the Technology-Neutral Framework for Future Plant Licensing

[Note: Mr. David Fischer was the Designated Federal Official for this portion of the meeting.]

The Committee had a discussion of individual ACRS member's issues associated with the technology-neutral regulatory framework for future plant licensing. The members' issues were divided into the following categories: Design Requirements vs. Site Requirements; Technical Issues; Policy Issues; and Philosophical Issues. The Committee has not yet reached a consensus on issues such as: preserving the concept of design-basis or licensing-basis events; separating design acceptance from site suitability; using the quantitative health objectives as the high-level risk acceptance criteria; and the need for a complimentary cumulative distribution function acceptance curve. There was general agreement among Committee members that draft NUREG-1860 was not as clear and concise as an effective framework document should be.

VI. Executive Session (Open)

[Note: Mr. Frank P. Gillespie was the Designated Federal Official for this portion of the meeting.]

A. RECONCILIATION OF ACRS COMMENTS AND RECOMMENDATIONS/EDO COMMITMENTS

The Committee discussed the response from the NRC Executive Director of Operations (EDO) to ACRS comments and recommendations included in recent ACRS reports:

- The Committee considered the EDO's response of April 24, 2007, to comments and recommendations included in the March 22, 2007 ACRS report regarding the development of the TRACE thermal-hydraulic system analysis code. The Committee decided that it was satisfied with the EDO's response.
- The Committee considered the EDO's response of April 23, 2007, to comments and recommendations included in the March 22, 2007 ACRS letter regarding the proposed NRC staff and industry activities for addressing dissimilar metal weld issues resulting from the Wolf Creek pressurizer weld inspection. The Committee decided that it was satisfied with the EDO's response.

The staff committed to keep the Committee informed of this issue as the advanced finite element analyses being performed by industry and the staff proceed.

B. Report on the Meeting of the Planning and Procedure Subcommittee Held on May 2, 2007

Review of the Member Assignments and Priorities for ACRS Reports and Letters for the May ACRS meeting

Member assignments and priorities for ACRS reports and letters for the May ACRS meeting were discussed. Reports and letters that would benefit from additional consideration at a future ACRS meeting were also discussed.

Anticipated Workload for ACRS Members

The anticipated workload for ACRS members through July 2007 were discussed. The objectives are to:

- Review the reasons for the scheduling of each activity and the expected work product and to make changes, as appropriate
- Manage the members' workload for these meetings
- Plan and schedule items for ACRS discussion of topical and emerging issues

During this session, the Subcommittee also discussed and developed recommendations on items requiring Committee action.

Recommendation to the Commission for Appointment of New Members

On April 23, 2007, the ACRS Member Candidate Screening Panel sent a list of candidates to the Commission, recommending appointment of three members to the ACRS. We are awaiting Commission decision.

Slides for Meeting with the NRC Commissioners

The ACRS met with the NRC Commissioners from 1:30 and 3:30 p.m. on Thursday, June 7, 2007. The following topics have been approved by the Commission. During the April meeting, cognizant ACRS members and the staff were asked to prepare presentation slides for consideration by the Committee during the May meeting:

1. Overview (WJS/SD)
 - Accomplishments
 - Future Plant Design Activities
 - Dissimilar Metal Weld Issues
 - Ongoing/Future ACRS Activities
2. Framework for Future Plant Licensing (TSK/DCF)
3. Digital I&C Activities (GEA/CGH)
4. License Renewal/Extended Power Uprates (MVB/MAJ/RC)
5. Human Reliability Analysis Models (GEA/HPN)

6. Staff Report on the Status of the 10 CFR 50.46 Rulemaking **(DELETED)**
(WJS/CGH)

Item 6, Staff Report on the Status of the 10 CFR 50.46 Rulemaking, which was scheduled for discussion during the May ACRS meeting, has been postponed to a future meeting due to the unavailability of the Staff's Report. Office of SECY was requested to find out whether the Commission would like to remove this topic from the above list. On April 26, 2007, Office of SECY informed us that the Commission has no objection to deleting Item 6.

Visit to San Onofre Nuclear Plant and Meeting With Region IV Administrator

The following members have agreed to visit San Onofre Nuclear Plant and meet with the Region IV Administrator during the week of August 13:

Apostolakis	Corradini
Armijo	Maynard
Banerjee	Shack
Bonaca	Sieber
Abdel-Khalik	Wallis

A list of questions considered by the Committee at the April meeting had been sent to the Regional Administrator and the licensee. An agenda is being prepared and will be provided to the members during the June meeting. In addition, details of the travel arrangements will be provided in June.

Visit to the Susquehanna Nuclear Plant

During the April meeting, the following members have agreed to visit the Susquehanna Nuclear Plant during the week of August 20, specifically to observe the simulation of the plant response to transients or certain events and gather information for use in the ACRS review of the Susquehanna application for an extended power uprate.

Because of some prescheduled activities on the simulator for the week of August 20, the licensee will not be able to accommodate the members' visit during this week. The Committee needs to propose alternative dates. The following members have agreed to visit the Susquehanna Plant:

Banerjee	Armijo
Abdel-Khalik	Bonaca
Shack	Wallis

Vice Chairman to the ACRS and Member-at-Large to the Planning and Procedures Subcommittee

Mr. Sieber, ACRS Vice Chairman, underwent surgery on March 1, 2007. It is not clear whether or when he will be back on the Committee.

Section 8.2 of the ACRS Bylaws state:

In the event the Vice Chairman is unable or unavailable to carry out his duties for a limited period (two months or less), the Chairman may appoint another member to act as Vice Chairman.

In anticipation of Mr. Sieber returning to the Committee within two months, the Chairman did not appoint another member to act as Vice Chairman.

Section 8.3 of the Bylaws state that:

The line of succession for Committee Officers is Chairman, Vice Chairman, and Member-at-Large. If either of the first two is no longer available to continue to serve, those next in line will move up in the succession. A special election will then be held to fill the resulting vacancy.

Accordingly, Dr. Bonaca, current Member-at-Large, will become the Vice Chairman and a special election will be held to elect a new Member-at-Large in June.

Proposed Revisions to ACRS Subcommittee Structure

A summary of the proposed revisions to the ACRS Subcommittee structure is provided below.

- EPR Combined License Application Subcommittee has been renamed as EPR Subcommittee, and ESBWR Combined License Application Subcommittee has been renamed as ESBWR Subcommittee.

These Subcommittees will be responsible for performing reviews of pre-application, design certification, and COL applications.

- Dr. Corradini will Chair the ESBWR Subcommittee. The current Chairman, Mr. Maynard, will remain as a member. Dr. Corradini will also Chair the Future Plant Designs Subcommittee effective September 1, 2007.
- A new Subcommittee on U.S. APWR has been established. This Subcommittee will be Chaired by Mr. Maynard.

Upon Commission approval of new members, another revision to the Subcommittee structure will be issued which will reflect changes in member assignments and staff assignments, as well as changes to the Subcommittee tasks.

Subject to the Committee's endorsement of these changes, the revised Subcommittee structure will become effective on May 7, 2007.

In view of the departure of some ACRS staff engineers, temporary reassignments have been made.

Overview of the AP1000 Design

The AP1000 design was certified by the NRC in September 2004. The AP1000 design is expected to be referenced in 6 COL applications (4 in the 1st quarter of FY 08).

The staff has adopted a design-centered review approach (DCRA). This approach will use, to the maximum extent practicable, a "one issue, one review, one position" strategy in order to optimize the review effort, the resources needed to perform these reviews, and the review schedules. Specifically, the staff will conduct one review for each issue associated with a particular design, reach a decision on each issue, and if possible rely on that decision in reviewing subsequent applications. In order for the DCRA to be fully effective, it is important that applicants achieve a consistent level of standardization.

Last summer, the U.S. Department of Energy (DOE) offered one-day familiarization sessions on the Westinghouse AP 1000 design and the GE ESBWR design. Committee members, especially those who were not involved in the AP1000 design certification, may be interested in receiving an overview of the AP1000 design.

Quadripartite Working Group Meeting

Germany's Reaktor-Sicherheitskommission (RSK) will host the first Quadripartite Working Group (WG) meeting on the topic of "Sump Screen Blockage" on October 17-18, 2007, in Erlangen, Germany. A tentative agenda is attached. During the April meeting, the Committee authorized Dr. Banerjee, Dr. Bonaca, Dr. Abdel-Khalik, and Dr. Wallis to attend this WG meeting.

The topic for the second WG meeting in 2008 is "EPR Safety Assessment/Future Reactor Licensing." The location (U.S. or France) of this meeting has not been determined.

France's Groupe Permanent pour les Reacteurs (GPR) will host the next Quadripartite Meeting in 2010. Japan's Nuclear Safety Commission (NSC) has offered to host the third WG Meeting in 2009. The topic for this WG meeting will be proposed later.

The NRC staff expects to receive the EPR design certification application in December 2007. The ACRS review of the Draft Safety Evaluation Report associated with the EPR design certification application is expected to begin in late 2008 or early 2009. As a result, holding the second WG meeting in France seems more appropriate.

IAEA Technical Meeting on Common Cause Failures in Digital I&C Systems of Nuclear Power Plants

A technical meeting organized by the International Atomic Energy Agency (IAEA), in cooperation with the NRC, DOE, EPRI, and NEI, is scheduled to be held at the Hyatt Regency Bethesda on June 19 - 21, 2007. This meeting will provide a forum for international experts on digital I&C to present and discuss experiences with methods

and techniques to cope with common cause failures in digital I&C systems in nuclear power plants. The meeting is intended for I&C experts and managers from power utilities, vendor companies licensing bodies, research organizations and academic institutions. The meeting will provide both experiences from already installed systems as well as descriptions of new and planned I&C systems. Further information on the meeting is provided in the attached information sheets.

Commission Meeting on the Use of Digital Instrumentation & Control System Matters

A Commission meeting is tentatively scheduled for Wednesday, July 18, 2007 between 1:00 - 4:00 p.m. to discuss the use of digital I&C systems. In addition to the NRC staff, several stakeholders, including NEI, EPRI, and North American Electric Reliability Corporation are scheduled to provide presentations. As instructed by the NRC Chairman, Office of SECY has invited a member of the ACRS to participate in this meeting. A preliminary schedule for this meeting is attached.

C. Future Meeting Agenda

Appendix IV summarizes the proposed items endorsed by the Committee for the **543rd ACRS Meeting, June 6 - 8, 2007.**

The **542nd ACRS** meeting was adjourned at **1:00 PM, May 5, 2007.**

2 p.m.–3 p.m.: ACNW White Paper on *Volcanism* (Open)—Continued discussion of final draft of the White Paper on Igneous Activity at Yucca Mountain. Paper to be sent to the Commission in June.

3:15 p.m.–4 p.m.: *Discussion of ACNW Letter Reports* (Open)—The Committee will discuss potential and proposed ACNW letter reports.

4 p.m.–5:30 p.m.: *Miscellaneous* (Open)—The Committee will discuss matters related to the conduct of ACNW activities and specific issues that were not completed during previous meetings, as time and availability of information permit. Discussions may include content of future letters and scope of future Committee Meetings.

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

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

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

[reading-rm/doc-collections/](http://www.nrc.gov/reading-rm/doc-collections/) (ACRS & ACNW Mtg schedules/agendas).

Video Teleconferencing service is available for observing open sessions of ACNW meetings. Those wishing to use this service for observing ACNW meetings should contact

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

Dated: April 20, 2007.

Andrew L. Bates,

Advisory Committee Management Officer.

[FR Doc. E7-8032 Filed 4-25-07; 8:45 am]

BILLING CODE 7590-01-P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards; Revised Meeting Notice

The agenda for the 542nd ACRS meeting, scheduled to be held on May 3-5, 2007, has been revised as noted below. Notice of this meeting was previously published in the **Federal Register** on Wednesday, April 18, 2007 (72 FR 19552).

The discussion of the topic on the Commission Paper on Rulemaking to Make Risk-Informed Changes to Loss-of-Coolant Accident Technical Requirements; 10 CFR 50.46a, "Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors," scheduled to be held on Thursday, May 3, 2007 between 8:35 a.m. and 10:30 a.m., is postponed to a future meeting due to the unavailability of the Commission Paper. The discussion of the item on Digital Instrumentation and Control System Matters, scheduled to be held between 10:45 a.m. and 12:15 p.m., is now scheduled between 8:35 a.m. and 10:30 a.m.

The discussion of the item on ACRS members' Issues associated with the Technology-Neutral Framework for Future Plant Licensing, scheduled between 8:35 a.m. and 10:30 a.m. on Friday May 4, 2007, is now scheduled between 3 p.m.–5 p.m. on Thursday, May 3, 2007. The times for other items scheduled for Thursday, May 3 and Friday, May 4, 2007, previously published in the **Federal Register**, have

been adjusted as noted in the revised agenda to facilitate effective use of the Committee's time. A revised agenda is posted on 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).

For further information, contact: Mr. Sam Duraiswamy, ACRS, (Telephone: 301-415-7364), between 7:30 a.m. and 4 p.m., ET.

Dated: April 20, 2007.

Andrew L. Bates,

Advisory Committee Management Officer.

[FR Doc. E7-8031 Filed 4-25-07; 8:45 am]

BILLING CODE 7590-01-P

POSTAL REGULATORY COMMISSION

Sunshine Act Meetings

NAME OF AGENCY: Postal Regulatory Commission.

TIME AND DATE: Wednesday, April 25, 2007 at 10:30 a.m.

PLACE: Commission conference room, 901 New York Avenue, NW., Suite 200, Washington, DC 20268-0001.

STATUS: Closed.

MATTERS TO BE CONSIDERED: Docket No. R2006-1—reconsideration of aspects of recommended decision for which reconsideration was sought by the U.S. Postal Service Governors in their March 19, 2007 decision.

FOR FURTHER INFORMATION CONTACT:

Stephen L. Sharfman, General Counsel, Postal Regulatory Commission, 901 New York Avenue, NW., Suite 200, Washington, DC 20268-0001, 202-789-6818.

Dated: April 24, 2007.

Steven W. Williams,

Secretary.

[FR Doc. 07-2086 Filed 4-24-07; 3:38 pm]

BILLING CODE 7710-FW-M

April 19, 2007

**REVISED
SCHEDULE AND OUTLINE FOR DISCUSSION
542nd ACRS MEETING
MAY 3-5, 2007**

**THURSDAY, MAY 3, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 1) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (WJS/CS/SD)
1.1) Opening statement
1.2) Items of current interest
- 2) 8:35 - 10:30 A.M. Digital Instrumentation and Control Systems Matters (Open)
(GEA/MAJ)
2.1) Remarks by the Subcommittee Chairman
2.2) Briefing by and discussions with representatives of the
NRC staff regarding staff activities related to digital
instrumentation and control systems, and related matters.

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

~~10:30~~ - 10:45 A.M. *****BREAK*****
10:50

- 3) ~~10:45~~ - 12:15 P.M. Commission Paper on Staff's Recommendation to Make a
10:50 Risk-Informed and Performance-Based Revision to 10 CFR
Part 50 (Open) (TSK/DCF)
3.1) Remarks by the Subcommittee Chairman
3.2) Briefing by and discussions with representatives of the
NRC staff regarding the staff's recommendation to
make a risk-informed and performance-based revision
to 10 CFR Part 50, and related matters.

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

12:15 - 1:15 P.M. *LUNCH*****

- 4) 1:15 - ~~2:45~~ P.M. Status of the Development of an Integrated Long-Term
2:50 Regulatory Research Plan (Open) (DAP/HPN)
4.1) Remarks by the Subcommittee Chairman
4.2) Briefing by and discussions with representatives of the
NRC staff regarding the staff's activities associated with
the development of an integrated long-term regulatory
research plan.

~~2:45 - 3:00 P.M.~~
2:50 - 3:20

BREAK

5) ~~3:00 - 5:00 P.M.~~
3:20

ACRS Members' Issues Associated with the Technology- Neutral Framework for Future Plant Licensing (Open) (TSK/DCF)

- 5.1) Remarks by the Subcommittee Chairman
- 5.2) Discussion of, and determination on, individual ACRS member's issues associated with the technology-neutral framework for future plant licensing.

5:00 - 5:15 P.M.

BREAK

6) 5:15 - 7:00 P.M.

Discussion of Proposed ACRS Reports on:

- 6.1) Staff Activities Related to Digital Instrumentation and Control System Matters (GEA/MAJ)
- 6.2) Commission Paper on Staff's Recommendation to Make a Risk-Informed and Performance-Based Revision to 10 CFR Part 50 (TSK/DCF)
- 6.3) Development of an Integrated Long-Term Regulatory Research Plan (DAP/HPN)
- 6.4) Proposed Revision to 10 CFR 50.46 LOCA Criteria for Fuel Cladding Materials (JSA/RC)

FRIDAY, MAY 4, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

7) 8:30 - 8:35 A.M.

Opening Remarks by the ACRS Chairman (Open) (WJS/CS/SD)

8) 8:35 - 9:30 A.M.

Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open) (WJS/FPG/SD)

- 8.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future ACRS meetings.
- 8.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.

9) 9:30 - 9:45 A.M.

Reconciliation of ACRS Comments and Recommendations (Open) (WJS, et al./SD, et al.)

Discussion of the responses from the NRC Executive Director for Operations to comments and recommendations included in recent ACRS reports and letters.

9:45 - 10:00 A.M.

BREAK

- 10) 10:00 - ~~11:30~~ A.M. Discussion of Topics for Meeting with the NRC Commissioners
12:30 (Open) (WJS, et.al/FPG, et.al)
Discussion of the following topics scheduled for discussion during the meeting with the NRC Commissioners on June 7, 2007:
- Overview (WJS/SD)
 - Framework for Future Plant Licensing (TSK/DCF)
 - Digital I&C Activities (GEA/MAJ)
 - License Renewal/Extended Power Uprates (MVB/MAJ/RC)
 - Human Reliability Analysis Models (GEA/HPN)
 - Staff Report on Status of the 10 CFR 50.46 Rulemaking (Tentative) (WJS/CGH)

~~11:30 - 12:30~~ P.M. ***LUNCH***
12:30 - 1:00

- 11) ~~12:30~~ - 7:00 P.M. Preparation of ACRS Reports (Open)
1:00 Discussion of proposed ACRS reports on:
- 11.1) Staff Activities Related to Digital Instrumentation and Control System Matters (GEA/MAJ)
 - 11.2) Commission Paper on Staff's Recommendation to Make a Risk-Informed and Performance-Based Revision to 10 CFR Part 50 (TSK/DCF)
 - 11.3) Development of an Integrated Long-Term Regulatory Research Plan (DAP/HPN)
 - 11.4) Proposed Revision to 10 CFR 50.46 LOCA Criteria for Fuel Cladding Materials (JSA/RC)

SATURDAY, MAY 5, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 12) 8:30 - 12:30 P.M. Preparation of ACRS Reports (Open)
(10:15-10:30 A.M. BREAK) Continue discussion of proposed ACRS reports listed under Item 11.
- 13) 12:30 - 1:00 P.M. Miscellaneous (Open) (WJS/FPG)
Discussion of matters related to the conduct of Committee activities and matters and specific issues that were not completed during previous meetings, as time and availability of information permit.

NOTE:

- Presentation time should not exceed 50 percent of the total time allocated for a specific item. The remaining 50 percent of the time is reserved for discussion.
- Thirty-Five (35) hard copies and (1) electronic copy of the presentation materials should be provided to the ACRS.

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
542nd FULL COMMITTEE MEETING

May 3 - 5, 2007

PLEASE PRINT

NRC Attendees

TODAY'S DATE: May 3, 2007

<u>NAME</u>	<u>NRC ORGANIZATION</u>
1 Paul Loeser	NRR/DE/EICB
2 Mike Waterman	RES/DFERR/ERA/IEEB
3 Jack Grobe	NRR/ADES
4 J. Persensky	RES
5 Laura Dudes	NRO
6 Allen Howe	NRR/DE/EICB
7 Rich Croates	RES/DFERR/ERA
8 David Rahn	RES/DFERR/ERA/IEEB
9 Cliff Douth	NRR/DRA
10 Girja Shukla	NRR/DPR/PSPB
11 John G. Lamb	NRC/OEDO
12 Barry Marcus	NRC/NRR/DE/EICB
13 Steve Arndt	RES/DEFER
14 Melanie Galloway	NMSS
15 Debbie Auhna	NRO/DCIP/LOLP
16 Kevin Witt	NRR/DPR/PRTB
17 Hulbert Li	NRO/DE/ICE2
18 J. Bongarra	NRO/DCIP/LOLP
19 Mario Gareri	NSIR/DSP
20 C.E. Carpenter	RES
21 Thomas Keynon	NRO/DNRL
22 Ronaldo Jenkins	RES/DRASP/PRASB
23 Joe Birmingham	NRR/DPR
24 Martin Stutzke	NRO/DSRA/SPLA
25 John Monninger	NRC/RES/DRASP
26 Mary Mirs	NRC/RES
27 Eileen McKenna	NRC/NRO/DNRL
28 Yeonki Chung	NRR/DLR

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

542ND ACRS MEETING

MAY 3-5, 2007

May 3, 2007

Date

NRC STAFF SIGN IN FOR ACRS MEETING

PLEASE PRINT

	<u>NAME</u>	<u>NRC ORGANIZATION</u>
1	PAUL LOESEN	NRR/DE/EICB
2	Mike Waterman	RES /DFERR/ERA/ICEB
3	JACK GROBE	NRR/ADES
4	J PERSENSKY	RES
5	Laura Dudes	NRO
	Allen Howe	NRR/DE/EICB
7	Rich Crotez	RES/DFERR/ERA
8	DAVID RAHN	RES/DFERR/ERA/ICEB
9	CLIFF DONTI	NRR/DRD/NPWA
10	GIRIJA SHUKLA	NRR/DDR/PSPB
11	JOHN G. LAMB	NRC/DEDO
12	Barry Marcus	NRC/NRR/DE/EICB
13	Stem Rinsdt	ICES/DEFER
14	Melanie Galloway	NMSS
15	Debbie Auma	NRO/DCIP/COLP
16	Kevin Witt	NRR/DDR/PRTB
17	Hubert Li	NRR/DE/ICE2
	J. BONGARRA	NRO/DCIP/COLP
19	MANO GAREM	NSIR/DSP
	C.E. CARPENTER	RES
	THOMAS KENYON	NRO/DNRL

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

542ND ACRS MEETING

MAY 3-5, 2007

May 3, 2007

Date

NRC STAFF SIGN IN FOR ACRS MEETING

PLEASE PRINT

NAME

NRC ORGANIZATION

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Ronald V. Jenkins	RES/DRASP/PASB
Joe Brining	NRA/DPA
MARTIN STUTZKE	NRO/DSRA/SPLA
Jean Moninger	NRC/RES/DRASP
Nancy Davis	
Erleen McKenna	NRC/NRO/DNRI
Yeou-Ki chung	NRC/NRI/DLR
Ben Beasley	NRC/RES/DRASP
Yuri Oreckwa	NRC/NR/DSS
Charles Ader	NRC/NRO/DSRA
F.J. LAUGHLIN	NRC/ TRANS /DPR
NATHAN SUE	RES/DRASP/PRA
ISTVAN FRAUSK	RES/DRASP
KRISTEN	RES/DRASP/NRCA
Oswaldo Font	RES
Sharon Rubin	RES/DRASP
Andrew Nosek	RES/DRASP
Sud Basm	RES/DRASP
Robert Lewis	RES/DRASP
Socelyn Mitchell	RES/DRASP
Richard Rivera-Lugo	RES/DFERR
Robert Roche-Rivera	RES/DFERR

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

542ND ACRS MEETING

MAY 3-5, 2007

May 3, 2007
Date

SIGN IN FOR ACRS MEETING

PLEASE PRINT

	<u>NAME</u>	<u>ORGANIZATION</u>
1	Kimberly A Keithline	NEI
2	Deann Kaley	LIS, Seifert
3	Rossnev Alvarado	MPR Associates
4	Tony Harris	NEI
5	Bob DeWesse	MPR ASSOCIATES
6	Steven Dolby	INSIDE NRC/ PLANTS
	Lisa Lambert	REUTERS
8	Andrew Alosek	NEI/RES/DRAEP/NRCA/SMP
9	JEFF STONE	CONSTELLATION
10	Edward Burns	PBMR
11		
12		
13		
14		
15		
16		
17		
18		
20		

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

542ND ACRS MEETING

MAY 3-5, 2007

May 4, 2007

Date

NRC STAFF SIGN IN FOR ACRS MEETING

PLEASE PRINT

NAME

NRC ORGANIZATION

1

Yung Hsien Chang

RES\ DRASP\ PRA\ HFAR

2

3

4

5

7

8

9

10

11

12

13

14

15

16

17

19

May 10, 2007

**SCHEDULE AND OUTLINE FOR DISCUSSION
543rd ACRS MEETING
JUNE 6-8, 2007**

**WEDNESDAY, JUNE 6, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

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

- 2) 8:35 - 10:00 A.M. Draft NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire" (Open) (GEA/MAJ)
 - 2.1) Remarks by the Subcommittee Chairman
 - 2.2) Briefing by and discussions with representatives of the NRC staff regarding NUREG-1852 and related matters.

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

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

- 3) 10:15 - 12:15 P.M. Maximum Extended Load and Line Limit Analysis Plus (MELLLA+) and Supporting Topical Reports (Open) (SB/HPN)
 - 3.1) Remarks by the Subcommittee Chairman
 - 3.2) Briefing by and discussions with representatives of the NRC staff and General Electric Nuclear Energy (GENE) regarding GENE's MELLLA+ and supporting Topical Reports, and related matters.

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

- 12:15 - 1:15 P.M. *****LUNCH*****

- 4) 1:15 - 3:15 P.M. Overview of the PHEBUS-FP Experimental Program and Results of Recent Tests (Open) (TSK/CGH)
 - 4.1) Remarks by the Subcommittee Chairman
 - 4.2) Briefing by and discussions with representatives of the NRC staff regarding the PHEBUS-FP experimental program and results of recent tests.

- 3:15 - 3:30 P.M. *****BREAK*****

- 5) 3:30 - 3:45 P.M. Subcommittee Report (Open) (MVB/MAJ)
Report by and discussion with the Chairman of the Plant License Renewal Subcommittee regarding interim review of the license renewal application for the Vermont Yankee Nuclear Plant.
- 6) 3:45 - 4:45 P.M. Status Report on the Quality Assessment of Selected NRC Research Projects (Open) (DAP/WJS/OLM/HPN)
6.1) Remarks by the Subcommittee Chairman
6.2) Discussion with the members of the ACRS panels regarding the status of their assessment of the quality of the NRC research projects on: Fatigue Crack Flaw Tolerance in Nuclear Power Plant Piping, and Technical Review of the Online Monitoring Techniques for Performance Assessment.
- 4:45 - 5:00 P.M. *****BREAK*****
- 7) 5:00 - 7:00 P.M. Preparation of ACRS Reports (Open)
Discussion of proposed ACRS reports on:
7.1) Draft NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire" (GEA/MAJ)
7.2) Maximum Extended Load Line Limit Analysis Plus (MELLLA+) and Supporting Topical Reports (SB/HPN)

THURSDAY, JUNE 7, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 8) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (WJS/CS/SD)
- 9) 8:35 - 9:30 A.M. Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open) (WJS/FPG/SD)
9.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future ACRS meetings.
9.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.

- 10) 9:30 - 9:45 A.M. Reconciliation of ACRS Comments and Recommendations
(Open) (WJS, et al./SD, et al.)
Discussion of the responses from the NRC Executive Director for Operations to comments and recommendations included in recent ACRS reports and letters.
- 9:45 - 10:00 A.M. *****BREAK*****
- 11) 10:00 - 10:30 A.M. Election of Member-at-Large (Open) (WJS/FPG/SD)
Election of Member-at-Large for the ACRS Subcommittee on Planning and Procedures.
- 12) 10:30 - 12:15 P.M. Preparation for Meeting with the NRC Commissioners (Open)
(WJS, et.al/FPG, et.al)
Discussion of the following topics for meeting with the NRC Commission:
- Overview (WJS/SD)
 - Framework for Future Plant Licensing (TSK/DCF)
 - Digital I&C Activities (GEA/MAJ)
 - License Renewal/Extended Power Uprates (MVB/MAJ/ZA)
 - Human Reliability Analysis Models (GEA/HPN)
- 12:15 - 1:30 P.M. *****LUNCH*****
- 13) 1:30 - 3:30 P.M. Meeting with the Commission (Open) (WJS, et.al/FPG, 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)
- 14.1) Draft NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire" (GEA/MAJ)
 - 14.2) Maximum Extended Load Line Limit Analysis Plus (MELLLA+) and Supporting Topical Reports (SB/HPN)

**FRIDAY, JUNE 8, 2007, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 15) 8:30 - 10:30 A.M. Preparation of ACRS Reports (Open)
Continue discussion of proposed ACRS reports listed under
Item 14.
- 10:30 - 10:45 A.M. *****BREAK*****
- 16) 10:45 - 1:00 P.M. ACRS Member's Issues Associated with the Technology- Neutral
Framework for Future Plant Licensing (Open) (TSK/DCF)
16.1) Remarks by the Subcommittee Chairman
16.2) Discussion of and determination on, individual member's
issues associated with the technology-neutral framework
for future plant licensing.
- 17) 1:00 - 1:30 P.M. Miscellaneous (Open) (WJS/FPG)
Discussion of matters related to the conduct of Committee
activities and matters and specific issues that were not
completed during previous meetings, as time and availability
of information permit.

NOTE:

Presentation time should not exceed 50 percent of the total time allocated for a specific item. The remaining 50 percent of the time is reserved for discussion.

Thirty-Five (35) hard copies and (1) electronic copy of the presentation materials should be provided to the ACRS.

LIST OF DOCUMENTS PROVIDED TO THE COMMITTEE
542nd ACRS MEETING
May 3-5, 2007

MEETING HANDOUTS

<u>Agenda Item #</u>	<u>Documents/Handouts listed in Order</u>
1.	<u>Opening Remarks by the ACRS Chairman</u> <ol style="list-style-type: none">1. Items of Interest
2.	<u>Digital Instrumentation and Control Systems Matters</u> <ol style="list-style-type: none">2. NRC Digital Instrumentation and Control System Program (Slides from NRR/Grobe/Loesser and RES/Waterman/Arndt)3. Digital I&C Project Plan (Enclosure)
3.	<u>Commission Paper on Staff's Recommendation to Make a Risk-Informed and Performance-Based Revision to 10 CFR Part 50</u> <ol style="list-style-type: none">4. Staff Recommendation for Reactor Requirements for Future Plant Licensing (Slides from NRR/Birmingham, NRO/Stutzke and RES/Drouin)
4.	<u>Status of the Development of an Integrated Long-Term Regulatory Research Plan</u> <ol style="list-style-type: none">5. Agency Long-Term Research Plan Development (Slides from RES/Helton/Siu/Tregoning)
5.	<u>ACRS Members' Issues Associated with the Technology-Neutral Framework for Future Plant Licensing</u> <ol style="list-style-type: none">6. Letter to NRC Chairman, Nils J. Diaz, dated September 21, 2005, from Graham B. Wallis, ACRS Chairman, Regarding: "Two Policy Issues Related to New Plant Licensing"7. Stakeholder Comments (one slide)8. Comments from Mario V. Bonoca dated 5/1/079. TNRF Issues Summary10. Milestones and Projected Schedule (Slides, Pre-Decisional)

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