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

October 23, 2006

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

Dear Chairman Klein:

SUBJECT: SUMMARY REPORT - 535th MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, SEPTEMBER 7-8, 2006, AND OTHER RELATED ACTIVITIES OF THE COMMITTEE

During its 535th meeting, September 7-8, 2006, the Advisory Committee on Reactor Safeguards (ACRS) discussed several matters and completed the following report, letters, and memoranda:

REPORT:

Report to Dale E. Klein, Chairman, NRC, from Graham B. Wallis, Chairman, ACRS:

- Report on the Safety Aspects of the License Renewal Application for the Monticello Nuclear Generating Plant, dated September 19, 2006

LETTERS:

Letters to Luis A. Reyes, Executive Director for Operations, NRC, from Graham B. Wallis, Chairman, ACRS:

- Proposed Direct Final Rule to Amend 10 CFR 50.68, "Criticality Accident Requirements," dated September 21, 2006

- Lessons Learned from the Review of Early Site Permit Applications, dated September 22, 2006

MEMORANDA:

Memoranda to Luis A. Reyes, Executive Director for Operations, NRC, from John T. Larkins, Executive Director, ACRS:

- Draft NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire," dated September 13, 2006

- Proposed Revision to Standard Review Plan, NUREG-0800, Section 6.1.1, "Engineering Safety Features Materials," dated September 13, 2006
- Proposed Revision to Regulatory Guide 1.23 (DG-1164), "Meteorological Monitoring Programs for Nuclear Power Plants," dated September 13, 2006
- Draft Final Revision to Regulatory Guide 1.76, "Design Basis Tornado for Nuclear Power Plants," dated September 13, 2006
- Questions Raised by Members of the Public During the ACRS Subcommittee Meeting on Palisades Nuclear Plant License Renewal Application, dated September 13, 2006

HIGHLIGHTS OF KEY ISSUES

1. Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant

The Committee met with representatives of the NRC staff and the Nuclear Management Company, LLC (NMC) to discuss the license renewal application for the Monticello Nuclear Generating Plant (MNGP) and the final Safety Evaluation Report (SER) prepared by the NRC staff. The operating license for MNGP expires on September 8, 2010. The applicant has requested approval for continued operation for a period of 20 years beyond the current license expiration date. The applicant discussed operating experience; major equipment replacements and repairs; major exceptions to the Generic Aging Lessons Learned Report; and the commitment tracking system. The staff discussed the results of its evaluation of the Monticello license renewal application as well as the results of the inspection and audit. In the final SER, the staff concluded that the requirements of 10 CFR 54.29(a) have been met.

Committee Action

The Committee issued a report to the NRC Chairman on this matter, dated September 19, 2006, recommending that the NMC application for renewal of the operating license for MNGP be approved.

2. Lessons Learned from the Review of the Early Site Permit Applications

The Committee met with representatives of the NRC staff and applicants to discuss any lessons that may have been learned from the preparation, evaluation, and review of the North Anna, Grand Gulf, and Clinton ESP applications. The staff and applicants agreed that there should be better communications and guidance related to the information contained in applications. Specific areas that would benefit from clearer guidance include: guidance for the electronic submission of applications, guidance on the treatment of the high frequency component of seismic ground motion, guidance for computing the probable maximum flood at proposed sites, and guidance for assuring the integrity of data posted on the Internet. Some issues that consumed a lot of time during the preparation and review of the first three ESP applications, such as the development of the "plant parameter envelope" and the review of specific major features of an emergency plan, are unlikely to require the same level of attention in the future.

8. Thermal-Hydraulic Phenomena Subcommittee Report

The Chairman of the Thermal-Hydraulic Phenomena Subcommittee provided a report to the Committee summarizing the results of the August 23-24, 2006 meeting with representatives of the NRC staff, Nuclear Energy Institute, PWR Owners Group, and various PWR sump screen vendors concerning their activities related to the resolution of Generic Safety Issue (GSI)-191. The Subcommittee reviewed the tests that have been performed and encouraged both the NRC staff and the industry to continue their research and modeling efforts.

RECONCILIATION OF ACRS COMMENTS AND RECOMMENDATIONS/EDO COMMITMENTS

- The Committee considered the EDO's response of July 14, 2006 to comments and recommendations included in the June 16, 2006 ACRS letter on the draft final Generic Letter 2006-XX, "Post-Fire Safe-Shutdown Circuit Analysis Spurious Actuations." The Committee decided that it was satisfied with the EDO's response.

OTHER RELATED ACTIVITIES OF THE COMMITTEE

During the period from July 14, 2006 through September 6, 2006, the following Subcommittee meetings were held:

- Plant Operations – July 26, 2006

The Subcommittee reviewed inspection, enforcement, and operational activities in Region I.

- Thermal-Hydraulic Phenomena – August 23-24, 2006

The Subcommittee reviewed issues associated with GSI-191 such as sump screen designs and testing, chemical effects, and downstream effects.

- Early Site Permits – September 6, 2006

The Subcommittee reviewed and developed "Lessons-Learned" items as a result of the review of three (North Anna, Grand Gulf, and Clinton) early site permit applications.

- Planning and Procedures – September 6, 2006

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 to be kept informed of the staff's progress on a Commission paper regarding options for performing additional studies related to the third recommendation in the April 24, 2006 ACRS report on ongoing security-related activities.

- The Committee plans to review the staff's progress on technical issues associated with performing state-of-the-art reactor consequence analyses during a future meeting.

- The Committee would like to be informed of any significant changes made to the proposed revisions to Regulatory Guide 1.23 (DG-1164), "Meteorological Monitoring Programs for Nuclear Power Plants," prior to its final publication.

- The Committee plans to review the draft final version of NUREG-1852, "Demonstrating the Feasibility and Reliability of Operator Manual Actions in Response to Fire," during a future meeting.

- The Committee suggested that the NRC staff consider revising the guidance associated with 10 CFR Parts 71 and 72 to allow for burnup credit, as is now permitted in the guidance for 10 CFR Part 50.

PROPOSED SCHEDULE FOR THE 536th ACRS MEETING

The Committee agreed to consider the following topics during the 536th ACRS meeting, to be held on October 4-6, 2006:

- Draft Final Revision 3 to Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment"
- Proposed Updates to Regulatory Guides and Standard Review Plan (SRP) Sections in Support of New Reactor Licensing
- Master Integrated Plan for New Reactor Licensing Activities
- Draft Report on the Quality Assessment of Selected NRC Research Projects
- Proposed Revision 1 to Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities"
- Verification and Validation of Selected Fire Models

Sincerely,

Graham B. Wallis

Graham B. Wallis
Chairman

CERTIFIED

Date Issued: 11/03/2006
Date Certified: 11/13/2006

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REPORT:

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- Questions Raised by Members of the Public During the ACRS subcommittee Meeting on Palisades Nuclear Plant License Renewal Application, dated September 13, 2006

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MINUTES OF THE 535th MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
SEPTEMBER 7-9, 2006
ROCKVILLE, MARYLAND

The 535th meeting of the Advisory Committee on Reactor Safeguards (ACRS) was held in Conference Room 2B3, Two White Flint North Building, Rockville, Maryland, on September 7-9, 2006. Notice of this meeting was published in the *Federal Register* on August 11, 2006 (65 FR 46248) (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. Graham B. Wallis (Chairman), Dr. William J. Shack (Vice Chairman), Mr. John D. Sieber, (Member-at-Large), Dr. Said Abdel-Khalik, Dr. George E. Apostolakis, Dr. J. Sam Armijo, Dr. Sanjoy Banerjee, Dr. Mario V. Bonaca, Dr. Michael L. Corradini, Dr. Thomas S. Kress, Mr. Otto L. Maynard, and Dr. Dana A. Powers. For a list of other attendees, see Appendix III.

I. Chairman's Report (Open)

[Note: Dr. John T. Larkins was the Designated Federal Official for this portion of the meeting.]

Dr. Graham B. Wallis, 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. Wallis 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. He announced that the Committee had appointed two new ACRS Members, Dr. Said Abdel-Khalik and Dr. Michael L. Corradini.

II. Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant (Open)

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

The Chairman of the Plant License Renewal Subcommittee provided an introduction to the NRC staff. The Committee had the benefit of presentations and discussions with representatives of the NRC staff and the licensee regarding the license renewal application for the Monticello Nuclear Generating Plant (MNGP), and the Safety Evaluation Report (SER) prepared by the NRC staff. The operating license will expire on September 8, 2010. The applicant has requested approval for continued operation of each unit for a period of 20 years beyond the current license expiration dates.

Committee Action

The Committee issued a letter dated September 19, 2006, recommending that NMC's application for renewal of the operating license for MNGP be approved.

III. Lessons Learned from the Review of the Early Site Permit Applications (Open)

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

The Committee met with representatives of the NRC staff and applicants to discuss any lessons that may have been learned from the preparation, evaluation, and review of the North Anna, Grand Gulf, and Clinton ESP applications. The staff and applicants agreed that there should be better communications and guidance related to the information contained in applications. Specific areas that would benefit from clearer guidance include: guidance for the electronic submission of applications, guidance on the treatment of the high frequency component of seismic ground motion, guidance for computing the probable maximum flood at proposed sites, and guidance for assuring the integrity of data posted on the Internet. Some issues that consumed a lot of time during the preparation and review of the first three ESP applications, such as the development of the "plant parameter envelope" and the review of specific major features of an emergency plan, are unlikely to require the same level of attention in the future.

Committee Action

The Committee issued a letter to the Executive Director for Operations on this matter, dated September 22, 2006, summarizing the lessons learned from the review of early site permit applications.

IV. Draft Final Revision to 10 CFR 50.68, "Criticality Accident Requirements" (Open)

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

The Committee reviewed the proposed direct final rule to amend 10 CFR 50.68, "Criticality Accident Requirements."

Committee Action

The Committee issued a letter to the EDO dated September 21, 2006, recommending that the proposed direct final rule to amend 10 CFR 50.68 should be issued for public comment. The Committee also recommended that the NRC staff should complete the research to quantify the reactivity effects of fission products in the fuel. The results of this research may enable additional burnup credit to be allowed in the guidance for 10 CFR Part 71 and 72.

V. State-of-the-Art Consequence (Open)

[Note: Mr. Eric A. Thornsbury was the Designated Federal Official for this portion of the meeting.]

Dr. Bonaca, the cognizant Committee Member for this issue, introduced the topic. Dr. Bonaca provided an overview of the topic and background information on the project. He briefly discussed the September 1982 Sandia Siting Study, which used several known conservative assumptions and bounding analyses to demonstrate results that met overall risk goals. Dr. Bonaca noted that the Commission has directed the staff to work with the ACRS on technical issues such as identification of accident scenarios for evaluation, evaluation of source terms, credit for operator actions and plant mitigation systems, modeling of emergency preparedness, modeling of offsite consequences, and definition and characterization of analysis uncertainty.

NRC Staff Presentation

Ms. Michele Laur, Office of Nuclear Regulatory Research (RES), outlined the presentation, noting that the discussion would cover the objectives, approach, potential uses of the analysis, and technical details regarding the improvements in the state-of-the-art that the staff will be using in the analysis – specifically for scenario selection, accident progression, and consequence analysis. Ms. Laur discussed the objectives of the project – to perform a realistic evaluation of severe accident progression, radiological releases, and offsite consequences with a focus on scenarios most likely to contribute to a radioactive release and offsite consequences, using a risk-informed

approach. She noted that a Commission paper and related SRM had been developed which described these objectives. Ms. Laur continued by describing the overall approach for the project, which included realistic modeling of plant systems, radionuclide transport, radionuclide deposition, likely release pathways, emergency preparedness, and plant improvements. The project also developed a faster-than-real-time tool to assist incident response coordinators in making decisions during actual events.

Ms. Laur then discussed the potential uses for the results of the project. These included improved safety-related decisionmaking, insights for new reactor sites, emergency response improvements, and regulatory analysis guidelines. The most important use is to provide a more accurate assessment of the potential offsite consequences for the current state of nuclear power plants as a means to improve communication with the public. Following several questions from the Members, she continued discussing the technical improvements involved in the project, some of which also served as motivation for the work. In the Level 1 portion of the analysis, the staff took advantage of improved Level 1 PRA modeling, improved plant performance, and added design features, such as station blackout improvements. For the Level 2 and 3 portions, recent phenomenological experiments provided a better understanding of source terms, the MELCOR code which provided an integrated severe accident analysis tool, and the overall increases in computing speed provided to analyze a greater range of scenarios. Ms. Laur stated that this is a three-year project and described the types of plants which would be examined each year and the types of staff that would be involved.

Mr. Chris Hunter, RES, continued the presentation by discussing a flowchart of the scenario selection process. The process begins with a screening of internal event sequences from the SPAR model, then evaluates the dominant cutsets for grouping into scenarios. The staff evaluated these scenarios for mitigation capabilities. The staff considered the effects of containment bypass scenarios and external events on the selection of scenarios. The final step results in the selection of scenarios that are likely to lead to a significant radiological release. Mr. Hunter concluded by discussing the technical issues affecting scenario selection, including the treatment of external event scenarios, the evaluation of human reliability for mitigation, and the calculation of scenario release frequencies.

Mr. Jason Schaperow, RES, discussed technical details of the accident progression analysis, including issues related to reactor coolant pump seal leakage, safety relief valve operation without power, and containment failure modes. He also discussed the issues related to consequence analysis, including representative source term definitions for plant groups and site specific factors such as emergency response, population distribution, weather data, and shielding factors.

Ms. Laur continued by describing the many types of communications occurring during the project, including steering committee meetings, ACRS meetings, EDO meetings, Commission staff briefings, and public meetings. The staff has selected six pilot sites, selected preliminary scenarios for two plant types, and held a MELCOR/MACCS expert meeting. The staff will prepare input for MELCOR and MACCS calculations for the six pilot sites and will continue examination of the SPAR models to identify accident scenarios for the remaining sites.

During the above discussions, the ACRS Members and other participants made the following points:

- Dr. Kress asked if the term 'risk-informed' meant that they would exclude some scenarios. Ms. Laur answered the question later in the presentation by showing how the staff will use the scenario screening process to select/eliminate scenarios.

- Dr. Wallis asked if the analyses would all be plant-specific. Ms. Laur answered affirmatively, adding that the MELCOR analyses would be done in plant groups, but they would perform the MACCS offsite consequence analyses for every plant.

- Dr. Apostolakis asked if they would make the results a part of the SPAR models. Ms. Laur pointed out that the project is using the SPAR models to select the scenarios. Dr. Farouk Eltawila, Director of the Division of Risk Assessment and Special Projects in RES, stated that the staff will decide later whether to incorporate any of the results into the SPAR LERF models.

- Dr. Kress asked how and where the staff plans to truncate the offsite effects. Mr. Schaperow stated that the staff will use both a dose limit and distance limit, and they will perform sensitivity studies on those variables. He pointed out that this issue was a topic at a recent expert meeting, and they are still discussing it.

- Dr. Apostolakis asked if industry was playing a part in the project. Ms. Laur stated that the staff was holding a public meeting the next day to engage them. The staff hopes the industry will help by providing important information such as meteorological data and post-accident procedures. Dr. Corradini asked if industry has a Level 3 PRA to which they could compare the work. Ms. Laur was not aware of any, but Drs. Kress, Apostolakis, and Bonaca listed a few possibilities.

- Dr. Kress asked how they would handle multiple reactors on a site. Mr. Schaperow indicated that they would treat them separately. Dr. Kress suggested the risk should be added. Mr. Schaperow replied that the analyses are not examining risk, just consequence estimates. Dr. Apostolakis then followed up by asking if uncertainty was being considered. Dr. Tinkler responded that the conditional core damage probability curves focus on low probability outcomes, while this project will focus on a best estimate of more likely scenarios. He noted that they are planning to look at the uncertainty in the predictions of consequences, through an integrated examination of uncertainty that will capture uncertainties in both the source term and consequence calculations.

- Dr. Wallis asked if they may screen out high LERF scenarios. Mr. Hunter noted that the screening values were set low enough to capture these scenarios. Dr. Apostolakis questioned if LERF would be a better screening variable. Dr. Kress pointed out that by screening with a low CDF, they would also screen on LERF. Dr. Wallis suggested the staff explicitly show the connection between the screening and LERF.

- Dr. Wallis suggested that the staff needs to be more realistic in their assessment of fire scenarios.

- Dr. Apostolakis asked if the staff is using NUREG-1150 in the analysis. Mr. Hunter replied that they would use it for a comparison check on selected scenarios.

- Dr. Bonaca asked how the new study will be comparable to the old study if the staff uses different scenarios. Dr. Eltawila replied that the staff would like the Committee's help regarding how to communicate the results.

- Mr. Sieber asked if they would include shutdown scenarios. Mr. Hunter answered that they would not since the shutdown SPAR models were not mature.

- Dr. Corradini asked if any new evidence existed on containment failure. Dr. Eltawila answered that new data and analyses now exist on containment failure, such that they can eliminate issues such as alpha-mode failure.

- Dr. Kress suggested that a good way to answer many of the questions would be to perform a full Level 3 PRA for comparison purposes.

- Dr. Corradini commented that the staff could be open to criticism for selecting only some scenarios.

- Dr. Nourbakhsh, ACRS staff engineer, noted the availability of relevant research in NUREG/CR-6295.

- Ken Canavan, EPRI, stated that much of the information the staff will need already exists at sites including scenario screening and containment failure characteristics.

- Dr. Wallis asked if the staff will capture how well the evacuation will actually work, as this is a big public concern. Mr. Schaperow noted that one member of the team is an emergency preparedness expert, and that the staff would be able to answer this question in the future. Dr. Kress commented that the results will be very sensitive to the EP assumptions. Ms. Laur confirmed that the staff recognizes its importance.

- Dr. Shack asked what kinds of consequences the staff plans to compute. Mr. Schaperow stated that early fatalities and latent cancers would be, but was not sure about land contamination. Dr. Eltawila stated that they would not compute land contamination. Dr. Kress argued that land contamination is the dominant consequence. Dr. Shack noted that we normally examine such costs as part of a regulatory analysis, and asked why it would not be done here as well. Dr. Kress pointed out that because the staff is using MACCS for the consequence analysis, the extra effort to report the land contamination consequences is minuscule. Dr. Bonaca noted that the old siting study did not include an equivalent calculation, and suggested that including one would focus the results of the study in a different direction from what the Commission intended.

- Dr. Apostolakis suggested that the staff meet with the ACRS subcommittee(s) early in the process.

Committee Action:

This was an information briefing. No Committee action was necessary. The Committee plans to review the staff's progress on technical issues periodically throughout the project.

VI. EDO Response to the ACRS Report on the Review of Ongoing Security-Related Activities (Open)

[Note: Mr. Eric A. Thornsbury was the Designated Federal Official for this portion of the meeting.]

The Committee met with representatives of the NRC staff to discuss the EDO's response of June 29, 2006, to comments and recommendations included in the ACRS' April 24, 2006 report on Ongoing Security-Related Activities. Specifically, the staff

responded to a request from the Committee to clarify their response to the third recommendation. The staff discussed the preparation of an options paper for the Commission on whether to perform the types of studies discussed in the Committee's recommendation.

Committee Action:

The Committee conditionally accepted the staff's clarification of the EDO response, with particular emphasis on the options paper for further studies. The Committee would like to be kept informed of the staff's progress on the Commission paper.

VII. Risk-Informed Criteria for Societal Risk (Open)

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

Dr. Kress presented a proposal to establish risk-informed criteria for considering the acceptability of the risk associated with nuclear power plants. He noted that the current risk metrics, the core damage frequency (CDF) and the large early release frequency (LERF) do not address all types of releases, their frequencies, their frequencies, or other effects such as land contamination. He proposed that a new method be developed, using frequency- consequence curves and actual risk-benefit analyses. If the risk is very small, on the order of 0.1% of the risk associated with other activities in society, then the risk could be judged to be acceptable.

Committee Action

After a lively discussion, the Committee decided that it could not endorse Dr. Kress's proposal, but it encouraged him to continue to work on the concept, and possibly prepare a paper that might be useful in the future.

VIII. Draft Report on the Quality Assessment of Selected NRC Research Projects (Open)

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

The Committee discussed the status of the quality assessment of the research projects selected for FY 2006. The Committee discussed the results of panel review and the numerical rating scores for the projects on containment capacity studies at Sandia National Laboratory and melt coolability and concrete interaction program at Argonne National Laboratory.

Committee Action

The Committee plans to discuss the draft ACRS report on quality assessment of the selected projects during October 4-6, 2006 ACRS meeting.

IX. Thermal-Hydraulic Phenomena Subcommittee Meeting (Open)

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

The Chairman of the Thermal-Hydraulic Phenomena Subcommittee provided a report to the Committee summarizing the results of the August 23-24, 2006 meeting with the nuclear Energy Institute, the PWR Owners Group, and various PWR sump screen vendors concerning their activities related to Generic Safety Issue 191. The subcommittee members were impressed by the level of testing that was being performed, and they encouraged both the NRC staff and the industry to continue its research and modeling efforts.

Committee Action

The Committee took no specific action as a result of this presentation, but will continue to follow staff and industry efforts to resolve the GSI.

X. Executive Session (Open)

[Note: Dr. John T. Larkins was the Designated Federal Official for this portion of the meeting.]

A. Reconciliation of ACRS Comments and Recommendations

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

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

- The Committee considered the EDO's response of July 14, 2006 to comments and recommendations included in the ACRS' June 16, 2006 letter regarding draft final Generic Letter (GL) 2006-XX, "Post-Fire Safe-Shutdowns Circuits Analysis Spurious Actuations." The Committee decided that it was satisfied with the EDO's response.

B. Report on the Meeting of the Planning and Procedures Subcommittee (Open)

The Committee heard a report from the ACRS Chairman and the Executive Director, ACRS, regarding the Planning and Procedures Subcommittee meeting held on September 6, 2006. The following items were discussed:

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

Member assignments and priorities for ACRS reports and letters for the September 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 November 2006 were discussed. The objectives were:

- 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.

Regulatory Guides and Standard Review Plan Updates in Support of New Reactor Licensing

The staff is in the process of developing and/or updating several Regulatory Guides and Standard Review Plan (SRP) Sections in support of new reactor licensing. This is being done to comply with the requirement in 10 CFR part 52 that all Regulatory Guides and SRP Sections that are applicable to new reactors should be completed six months prior to receiving the first COL application. Also, the Commission directed the staff to complete this task by March 2007.

The staff has identified 28 Regulatory Guides to be completed by March 2007 to comply with the 10 CFR Part 52 requirement and the Commission direction. The staff has identified several Regulatory Guides that do not need ACRS review because they either deal with process issues or the changes are minor. In addition, the staff

requested that the ACRS hold a special meeting in January 2007 to review about 12 Regulatory Guides. The staff has been informed by the ACRS staff and the ACRS Executive Director that the Committee will not hold a special meeting in January 2007.

An alternate proposal by the ACRS staff was discussed and summarized below. Assuming that the staff will provide the documents by the end of September:

- In October, the ACRS will review one Regulatory Guide, and decide whether to review certain Regulatory Guides.
- In November, the ACRS is tentatively scheduled to review eight Regulatory Guides.
- In December, six Regulatory Guides are tentatively scheduled for review.

Assignments have been made for the members and ACRS staff for reviewing and/or making recommendations on whether to review these Guides. The staff is also revising the SRP Sections applicable to the future plant licensing. Upon receiving information on this matter, they will be scheduled for ACRS review.

RES and NRR staff are scheduled to meet with the ACRS during the October 2006 full committee meeting to provide the staff's views on which Regulatory Guides and SRP sections require ACRS review. Based on cognizant member's review and recommendations, the Committee will decide on a course of action. To complete the review of these Guides to accommodate the Agency schedule, the Committee may have to hold 4-day meetings in November and December.

Another option for consideration would be the establishment of an Ad Hoc Subcommittee to review these Guides and SRP Sections in October and November and refer to the full Committee only those Guides and SRP Sections that need to be reviewed by the full Committee. Following the Ad Hoc Subcommittee meeting, the Subcommittee Chairman will prepare one proposed letter commenting on all Regulatory Guides and SRP Sections and submit to the full Committee for consideration. Even with this approach, the Committee may need to hold 4-day meetings in November and December.

Quadripartite Meeting Status

In response to the invitation letters sent to NRC Commissioners, the EDO, and selected Program Office Directors, Chairman Klein has agreed to be a keynote speaker for the opening session. Dr. Paul Epstein, M.D., from Harvard University will be the keynote speaker for evening session 1. Commissioner Jaczko has agreed to be a keynote speaker for the opening session of day two. Mr. Dennis Spurgeon, Assistant Secretary of Nuclear Energy, DOE, has agreed to be a keynote speaker for evening session 2. The EDO has agreed to attend the meeting.

Arrangements have been made to visit TMI-1 Nuclear Plant on October 17, 2006. Several meeting attendees from Japan, Germany, and France as well as ACRS members Armijo, Maynard, Sieber, and Wallis will participate in this plant visit.

ACRS Meeting with the NRC Commissioners

The ACRS meeting with the NRC Commissioners is scheduled for Friday, October 20, 2006, between 2:30 and 4:30 p.m. . The following topics have been approved by the Commission:

I. Overview (GBW)
   - Accomplishments
   - License Renewal
   - Power Uprate
   - Risk-Informing 10 CFR 50.46
   - Ongoing/Future Activities

II. PWR Sump Performance (GBW)

III. Safety Research Program Report (MVB)

IV. Lessons Learned from the Review of Early Site Permit Applications (WJS)

V. Future Plant Design Activities and coordination with the NRC staff on the Master Integrated schedule. [Including 10 CFR Part 52] (TSK)

During the September ACRS meeting, the Committee needs to discuss and provide comments on the presentation slides. Following approval by the Committee at the October meeting, the final slides will be sent to the Commission.

Proposed Revision to the ACRS Subcommittee Structure

A proposed revision to the ACRS Subcommittee structure was discussed. This revision involves combining certain existing Subcommittees, the creation of new Subcommittees to work with COL applications and member assignments.

Annual Retreat, visit to a Nuclear Plant, and Meeting with the Regional Administrator

Each year, the members visit a nuclear plant and meet with the Regional Administrator to discuss items of mutual interest. In 2006, the members visited the Limerick Nuclear Plant and met with the Region I Administrator.

In 2007, the Committee will visit a plant in Region IV and meet with the Region IV Administrator. During the discussion of Risk Management Technical Specification Initiative 4b, "Use of Configuration Management for Determining Technical Specification Completion Times Related to the use of PRA and Risk-Monitoring Tools," at the April 28, 2006 Reliability and PRA Subcommittee meeting, Dr. Apostolakis suggested that in 2007 the members visit a plant with Risk Monitor. The plants in Region IV that use Risk Monitors are San Onofre, South Texas, and Fort Calhoun. It was also suggested that the 2007 plant visit and meeting with the Regional Administrator be held in January 2007.

Meeting with the Nuclear Installations Inspectorate (NII) United Kingdom

During a conversation with Mr. Paul Harvey, Principal Inspector, NII, at the July 26, 2006 meeting with the Region I Administrator, Dr. Wallis expressed some interest in a meeting between NII and members of the ACRS to discuss items of mutual interest. Subsequently, Mr. Harvey sent an e-mail to the NRC Office of International Programs (OIP), stating that NII would like to find out whether Dr. Wallis wants to pursue his interest in meeting with NII and if so when. Dr. Larkins has discussed this matter with the OIP Desk Officer for the U.K. and noted that the Committee has had bilateral exchanges with the U.K. in the past and would get back to OIP shortly.

It should be noted that the Committee met with Mr. Lawrence Williams, Her Majesty's Chief Inspector, NII during the December 5-7, 2002 ACRS meeting to discuss several items of mutual interest, including pre-decisional plans to expand the nuclear program in U.K.

Request by Mr. Herschel Specter to brief ACRS on Indian Point Emergency Planning

In an e-mail to Dr. Kress, dated August 20, 2006, Mr. Herschel Specter stated the following:

- There has been a large effort to modernize the emergency plan at the Indian Point Nuclear Plant.
- For about two years as a consultant to Entergy (the Indian Point plant owner) Mr. Specter led the technical effort to modernize the emergency plan at Indian Point. This phase of effort is nearing completion and Entergy and its supporting team would like to present their analyses to the ACRS sometime after Thanksgiving this fall.
- The NRC staff and SNL are also active in modernizing the emergency plan and they may be ready to present their results in a similar timeframe.

ACRS does not normally get involved in reviewing plant-specific emergency plans. We need to discuss with the NRC Chairman whether ACRS should get involved in this matter. In addition, since staff and SNL are involved in modernizing the emergency plan, we should wait until they complete their work. If the Commission, EDO, or the staff requests ACRS involvement in this matter, then a briefing will be scheduled and Mr. Specter, staff, SNL, EPRI, and NEI will be invited to present their views.

ACRS Meeting Dates for CY2007

A calendar which includes proposed ACRS meeting dates for CY2007 was discussed. The proposed meeting dates for calendar year 2007 are listed below:

- -	January 2007 (No ACRS Meeting)
539	February 8-10, 2007
540	March 8-10, 2007
541	April 5-7, 2007
542	May 3-5, 2007
543	June 6-8, 2007 (Wed. - Friday)
544	July 11-13, 2007 (Wed. - Friday)
- -	August (No ACRS Meeting)
545	September 6-8, 2007
546	October 4-6, 2007
547	October 31 - November 1-2, 2007 (Wed. - Friday)
548	December 6-8, 2007

C. Future Meeting Agenda

Appendix IV summarizes the proposed items endorsed by the Committee for the 536th ACRS Meeting, October 4-6, 2006.

The 535th ACRS meeting was adjourned at 7:00 p.m. on Friday, September 8, 2006.

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

November 13, 2006

MEMORANDUM TO: Sherry A. Meador, Technical Secretary
Advisory Committee on Reactor Safeguards

FROM: Graham B. Wallis
ACRS Chairman

SUBJECT: CERTIFIED MINUTES OF THE 535TH MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS (ACRS), SEPTEMBER 7-9, 2006

I certify that based on my review of the minutes from the 535th 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.

N/A
Comments

that the indirect transfer of control of the license as held by FPL Energy Seabrook, is otherwise consistent with applicable provisions of law, regulations, and orders issued by the Commission pursuant thereto.

The findings set forth above are supported by a safety evaluation dated August 3, 2006.

III

Accordingly, pursuant to Sections 161b, 161i and 184 of the Atomic Energy Act of 1954, as amended (the Act), 42 U.S.C. 2201(b), 2201(i) and 2234; and 10 CFR 50.80, it is hereby ordered that the application regarding the proposed merger and indirect license transfer is approved, subject to the following condition:

Should the proposed merger not be completed within one year from the date of issuance, this Order shall become null and void, provided, however, upon written application and good cause shown, such date may in writing be extended.

This Order is effective upon issuance.

For further details with respect to this Order, see the application dated January 20, 2006, and the safety evaluation dated August 3, 2006, which are available for public inspection at the Commission's Public Document Room (PDR), located at One White Flint North, Public File Area 01 F21, 11555 Rockville Pike (first floor), Rockville, Maryland and accessible electronically from the Agencywide Documents Access and Management System (ADAMS) Public Electronic Reading Room on the Internet at the NRC Web site, *http://www.nrc.gov/reading-rm/adams.html*. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS, should contact the NRC PDR Reference staff by telephone at 1–800–397–4209, 301–415–4737, or by E-mail to *pdr@nrc.gov*.

Dated at Rockville, Maryland this 3rd day of August 2006.

For the Nuclear Regulatory Commission.

Catherine Haney,

Director, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.

[FR Doc. E6–13131 Filed 8–10–06; 8:45 am]

BILLING CODE 7590–01–P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards; Meeting Notice

In accordance with the purposes of sections 29 and 182b. of the Atomic Energy Act (42 U.S.C. 2039, 2232b), the Advisory Committee on Reactor Safeguards (ACRS) will hold a meeting on September 7–9, 2006, 11545 Rockville Pike, Rockville, Maryland. The date of this meeting was previously published in the **Federal Register** on Tuesday, November 22, 2005 (70 FR 70638).

Thursday, September 7, 2006, Conference Room T–2b3, Two White Flint North, Rockville, Maryland

8:30 a.m.–8:35 a.m.: Opening Remarks by the ACRS Chairman (Open): The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

8:35 a.m.–10 a.m.: Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant (Open): The Committee will hear presentations by and hold discussions with representatives of the NRC staff and Nuclear Management Company, LLC regarding the license renewal application for the Monticello Nuclear Generating Plant and the associated NRC staff's final Safety Evaluation Report.

10:15 a.m.–11:45 a.m.: Lessons Learned from the Review of the Early Site Permit Applications (Open): The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding the lessons learned from the review of the early site permit applications for the Grand Gulf, North Anna, and Clinton sites.

12:45 p.m.–2:45 p.m.: Draft Final Revision to 10 CFR 50.68, "Criticality Accident Requirements" (Open): The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding the draft final revision to 10 CFR 50.68, "Criticality Accident Requirements".

3 p.m.–4 p.m.: State-of-the Art Consequence Analysis (Open): The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding the staff's plans to perform a state-of-the art consequence analysis for each site and compare the results with those in NUREG/CR–2239, "Technical Guidance for Siting Criteria Development".

4 p.m.–4:30 p.m.: EDO Response to the ACRS Report on the Review of Ongoing Security-Related Activities (Closed): The Committee will hold discussions with representatives of the NRC staff regarding the June 29, 2006 response from the NRC Executive Director for Operations (EDO) to the comments and recommendations included in the April 24, 2006 ACRS report on Review of Ongoing Security-Related Activities.

Note: This session will be closed to protect information classified as National Security information as well as safeguards information pursuant to 5 U.S.C. 552b(c) (1) and (3)].

4:45 p.m.–7 p.m.: Preparation of ACRS Reports (Open/Closed): The Committee will discuss proposed ACRS reports on matters considered during this meeting.

Friday, September 8, 2006, Conference Room T–2b3, Two White Flint North, Rockville, Maryland

8:30 a.m.–8:35 a.m.: Opening Remarks by the ACRS Chairman (Open): The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

8:30 a.m.–10:30 a.m.: Risk-Informed Criteria for Societal Risk (Open): The Committee will hear a report by and hold discussions with the cognizant ACRS member regarding risk-informed criteria for societal risk.

10:45 a.m.–11:45 a.m.: Draft Report on the Quality Assessment of Selected NRC Research Projects (Open): The Committee will discuss a draft ACRS report on the quality assessment of the NRC research projects on Containment Capacity Study at Sandia National Laboratories and on Molten Core Coolant Interaction Study at the Argonne National Laboratory.

11:45 a.m.–12 Noon: Subcommittee Report (Open): Report by and discussions with the Chairman of the ACRS Subcommittee on Thermal-Hydraulic Phenomena regarding industry perspectives on PWR sump performance issues that were discussed at the August 23–24, 2006 Subcommittee meeting.

1 p.m.–2 p.m.: Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open): The Committee will discuss the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future meetings. Also, it will hear a report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.

2 p.m.–2:15 p.m.: Reconciliation of ACRS Comments and Recommendations (Open): The Committee will discuss the responses from the NRC Executive Director for Operations to comments and recommendations included in recent ACRS reports and letters.

2:30 p.m.–4 p.m.: Preparation for Meeting With the NRC Commissioners

(Open): The Committee will discuss topics of mutual interest for ACRS meeting with the NRC Commissioners that is scheduled for Friday, October 20, 2006.

4:15 p.m.–7 p.m.: Preparation of ACRS Reports (Open/Closed): The Committee will discuss proposed ACRS reports.

Saturday, September 9, 2006, Conference Room T–2b3, Two White Flint North, Rockville, Maryland

8:30 a.m.–12:30 p.m.: Preparation of ACRS Reports (Open): The Committee will continue discussion of proposed ACRS reports.

12:30 p.m.–1 p.m.: Miscellaneous (Open): The Committee will discuss 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.

Procedures for the conduct of and participation in ACRS meetings were published in the **Federal Register** on September 29, 2005 (70 FR 56936). In accordance with those procedures, oral or written views may be presented by members of the public, including representatives of the nuclear industry. Electronic recordings will be permitted only during the open portions of the meeting. Persons desiring to make oral statements should notify the Cognizant ACRS staff named below five days before the meeting, if possible, so that appropriate arrangements can be made to allow necessary time during the meeting for such statements. Use of still, motion picture, and television cameras during the meeting may be limited to selected portions of the meeting as determined by the Chairman. Information regarding the time to be set aside for this purpose may be obtained by contacting the Cognizant ACRS staff prior to the meeting. In view of the possibility that the schedule for ACRS meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should check with the Cognizant ACRS staff if such rescheduling would result in major inconvenience.

In accordance with subsection 10(d) Public Law 92–463, I have determined that it will be necessary to close a portion of this meeting noted above to discuss and protect information classified as National Security information as well as safeguards information pursuant to 5 U.S.C. 552b(c)(1) and (3).

Further information regarding topics to be discussed, whether the meeting has been canceled or rescheduled, as well as the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by contacting Mr. Sam Duraiswamy, Cognizant ACRS staff (301–415–7364), between 7:30 a.m. and 4:15 p.m., ET. ACRS meeting agenda, meeting transcripts, and letter reports are available through the NRC Public Document Room at *pdr@nrc.gov*, or by calling the PDR at 1–800–397–4209, or from the Publicly Available Records System (PARS) component of NRC's document system (ADAMS) which is accessible from the NRC Web site at *http://www.nrc.gov/reading-rm/adams.html* or *http://www.nrc.gov/reading-rm/doc-collections/* (ACRS & ACNW Mtg schedules/agendas).

Videoteleconferencing service is available for observing open sessions of ACRS meetings. Those wishing to use this service for observing ACRS meetings should contact Mr. Theron Brown, ACRS Audio Visual Technician (301–415–8066), between 7:30 a.m. and 3:45 p.m., ET, at least 10 days before the meeting to ensure the availability of this service. Individuals or organizations requesting this service will be responsible for telephone line charges and for providing the equipment and facilities that they use to establish the videoteleconferencing link. The availability of videoteleconferencing services is not guaranteed.

Dated: August 7, 2006.

Andrew L. Bates,

Advisory Committee Management Officer.

[FR Doc. E6–13123 Filed 8–10–06; 8:45 am]

BILLING CODE 7590–01–P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards Subcommittee Meeting on Planning and Procedures; Notice of Meeting

The ACRS Subcommittee on Planning and Procedures will hold a meeting on September 6, 2006, Room T–2B1, 11545 Rockville Pike, Rockville, Maryland.

The entire meeting will be open to public attendance, with the exception of a portion that may be closed pursuant to 5 U.S.C. 552b (c) (2) and (6) to discuss organizational and personnel matters that relate solely to the internal personnel rules and practices of the ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.

The agenda for the subject meeting shall be as follows:

Wednesday, September 6, 2006, 11 a.m.–12 Noon

The Subcommittee will discuss proposed ACRS activities and related matters. The Subcommittee will gather information, analyze relevant issues and facts, and formulate proposed positions and actions, as appropriate, for deliberation by the full Committee.

Members of the public desiring to provide oral statements and/or written comments should notify the Designated Federal Official, Mr. Sam Duraiswamy (telephone: 301–415–7364) between 7:30 a.m. and 4:15 p.m. (ET) five days prior to the meeting, if possible, so that appropriate arrangements can be made. Electronic recordings will be permitted only during those portions of the meeting that are open to the public.

Further information regarding this meeting can be obtained by contacting the Designated Federal Official between 7:30 a.m. and 4:15 p.m. (ET). Persons planning to attend this meeting are urged to contact the above named individual at least two working days prior to the meeting to be advised of any potential changes in the agenda.

Dated: August 7, 2006.

Antonio F. Dias,

Acting Branch Chief, ACRS/ACNW.

[FR Doc. E6–13129 Filed 8–10–06; 8:45 am]

BILLING CODE 7590–01–P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards, Subcommittee on Early Site Permits; Notice of Meeting

The ACRS Subcommittee on Early Site Permits will hold a meeting on September 6, 2006, Room T–2B3, 11545 Rockville Pike, Rockville, Maryland.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Wednesday, September 6, 2006—1 p.m. Until the Conclusion of Business

The Subcommittee will review and develop "Lessons-Learned" items as a result of the three (North Anna, Grand Gulf, and Clinton) early site permits reviews. The Subcommittee will hear presentations by and hold discussions with representatives of the NRC staff, Dominion Nuclear North Anna, LLC (Dominion), System Energy Resources, Inc. (SERI), Exelon Generation Company, LLC (Exelon), Southern Nuclear Operating Company, Inc. (Southern), and other interested persons regarding this matter. The

APPENDIX II

August 3, 2006

SCHEDULE AND OUTLINE FOR DISCUSSION
535th ACRS MEETING
SEPTEMBER 7-9, 2006

THURSDAY, SEPTEMBER 7, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

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

2) 8:35 - ~~10:00~~ A.M. **9:22 AM** Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant (Open) (MVB/MAJ)
   2.1) Remarks by the Subcommittee Chairman
   2.2) Briefing by and discussions with representatives of the NRC staff and Nuclear Management Company, LLC regarding the license renewal application for the Monticello Nuclear Generating Plant and the associated NRC staff's final Safety Evaluation Report.

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

3) 10:15 - ~~11:45~~ A.M. **11:14 AM** Lessons Learned from the Review of the Early Site Permit Applications (Open) (DAP/DCF)
   3.1) Remarks by the Subcommittee Chairman
   3.2) Briefing by and discussions with representatives of the NRC staff regarding the lessons learned from the review of the early site permit applications for the Grand Gulf, North Anna, and Clinton sites.

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

11:45 - 12:45 P.M. *****LUNCH*****

4) 12:45 - 2:45 P.M. Draft Final Revision to 10 CFR 50.68,"Criticality Accident Requirements" (Open) (JSA/RC)
   4.1) Remarks by the Subcommittee Chairman
   4.2) Briefing by and discussions with representatives of the NRC staff regarding the draft final revision to 10 CFR 50.68, "Criticality Accident Requirements."

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

	2:45 - 3:00 P.M.	*****BREAK*****
5)	3:00 - ~~4:00~~ P.M. **4:15 PM**	State-of-the Art Consequence Analysis (Open) (MVB/EAT) 5.1) Remarks by the Subcommittee Chairman 5.2) Briefing by and discussions with representatives of the NRC staff regarding the staff's plans to perform a state-of-the art consequence analysis for each site and compare the results with those in NUREG/CR-2239, "Technical Guidance for Siting Criteria Development." Representatives of the nuclear industry and members of the public may provide their views, as appropriate.
6)	~~4:00 - 4:30~~ P.M. **4:15-5:10 PM** CLOSED	EDO Response to the ACRS Report on the Review of Ongoing Security-Related Activities (Closed) (MVB/EAT) 6.1) Remarks by the Subcommittee Chairman 6.2) Discussion with representatives of the NRC staff regarding the June 29, 2006 response from the NRC Executive Director for Operations (EDO) to the comments and recommendations included in the April 24, 2006 ACRS report on Review of Ongoing Security-Related Activities. **[Note: This session will be closed to protect information classified as National Security information as well as safeguards information pursuant to 5 U.S.C. 552b (c) (1) and (3)].**
	4:30 - 4:45 P.M.	*****BREAK*****
7)	4:45 - ~~7:00~~ P.M. **6:15 PM**	Preparation of ACRS Reports (Open/Closed) Discussion of proposed ACRS reports on: 7.1) Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant (MVB/MAJ) 7.2) Lessons Learned from the Review of the Early Site Permit Applications (DAP/DCF) 7.3) Draft Final Revision to 10 CFR 50.68, "Criticality Accident Requirements" (JSA/RC) 7.4) Response to the EDO on Security-Related Activities (Closed) (MVB/EAT)

FRIDAY, SEPTEMBER 8, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

8)	8:30 - 8:35 A.M.	Opening Remarks by the ACRS Chairman (Open) (GBW/JTL/SD)

9)	8:35 - 10:30 A.M.	Risk-Informed Criteria for Societal Risk (Open) (TSK/RC/HPN) Discussion with the Cognizant ACRS member regarding risk-informed criteria for societal risk.
	10:30 - 10:45 A.M.	*****BREAK*****
10)	10:45 - 11:45 A.M.	Draft Report on the Quality Assessment of Selected NRC Research Projects (Open) (DAP/WJS/HPN) Discussion of a draft ACRS report on the quality assessment of the NRC research projects on Containment Capacity Study at Sandia National Laboratories and on Molten Core Coolant Interaction Study at the Argonne National Laboratory.
11)	11:45 - 12:00 Noon	Subcommittee Report (Open) (GBW/RC) Report by and discussions with the Chairman of the ACRS Subcommittee on Thermal-Hydraulic Phenomena regarding Industry perspectives on PWR sump performance issues that were discussed at the August 23-24, 2006 Subcommittee meeting.
	12:00 - 1:00 P.M.	*****LUNCH*****
12)	1:00 - ~~2:00~~ P.M. **3:30 PM**	Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open) (GBW/JTL/SD) 12.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future ACRS meetings. 12.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.
13)	2:00 - 2:15 P.M.	Reconciliation of ACRS Comments and Recommendations (Open) (GBW, 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.
	2:15 - 2:30 P.M.	*****BREAK*****
14)	2:30 - 4:00 P.M.	Preparation for Meeting With the NRC Commissioners (Open) (GBW, et al./JTL, et al.) Discussion of topics of mutual interest for ACRS meeting with the NRC Commissioners that is scheduled for Friday, October 20, 2006.

4:00 - 4:15 P.M. *****BREAK*****

15) 4:15 - 7:00 P.M. Preparation of ACRS Reports (Open/Closed)
Discussion of proposed ACRS reports on:

15.1) Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant (MVB/MAJ)
15.2) Lessons Learned from the Review of the Early Site Permit Applications (DAP/DCF)
15.3) Draft Final Revision to 10 CFR 50.68, "Criticality Accident Requirements" (JSA/RC)
15.4) Response to the EDO on Security-Related Activities (Closed) (MVB/EAT)
15.5) Risk-Informed Criteria for Societal Risk (TSK/RC/HPN)

~~**SATURDAY, SEPTEMBER 9, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**~~

~~16) 8:30 - 12:30 P.M. Preparation of ACRS Reports (Open/Closed)~~
~~**(10:15-10:30 A.M. BREAK)** Continue discussion of proposed ACRS reports listed under Item 15.~~

~~17) 12:30 - 1:00 P.M. Miscellaneous (Open) (GBW/JTL)~~
~~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.

APPENDIX III

MEETING ATTENDEES
535TH ACRS MEETING
SEPTEMBER 7-9, 2006

NRC STAFF (9/7/2006)
J. Storch, OIG
M. Morgan, NRR
R. Hernandez, NRR
R. Mathew, NRR
A. Pal, NRR
M. Mitchell, NRR
R. Subbaratram, NRR
D. Heng, NRR
E. Oesterle, NRR
C. Arguas, NRR
P. Prescott, NRR
J. Stravetos, NRR
M. Hart, NRR
M. Blumberg, NRR
D. Barss, NSIR
N. Gilles, NRR
S. Klementowicz, NRR
K. Campe, NRR
M. Concephow, NRR
B. Musica, NRR
J. Mitchell, RES
F. Eltawila, RES
M. Dusaniwskyj, NRR
J. Wood, RES
D. Dube, RES
S. Coffin, NRR
R. Weisman, OGC
E. McKenna, NRR
J. Lee, NRR
N. Chokshi, NRR
C. Hinson, NRR
D. Harrison, NRR
T. Affard, NRR
P. Clifford, NRR
A. Bart, NMSS
G. Tartal, NRR
C. Withe, NMSS
G. Bjorkman, NMSS
J. Eangle, NRR
J. Wilson, NRR
A. Obodoako, NRR
P. Heher, NRR
B. Ruland, NMSS
G. Mizuno, OGC
J. Lamb, OEDO
D. Merzke, NRR
C. Ader, RES
T. McCane, NRR
J. Vail, NRR
M. Lauer, RES
R. DeLaGarca, NRR
D. Ashley, NRR
K. Howard, NRR
J. Medoff, NRR
H. Asher, NRR
J. Zimmerman, NRR
J. Fair, NRR
P. Lougheed, RIII
N. Dudley, NRR
E. Gettys, NRR
K. Chang, NRR
L. Tran, NRR
B. Palla, NRR
J. Davis, NRR
R. Auluck, NRR
P. Buckberg, NRR
J. Ma, NRR
J. Ayala, NRR
A. Szabo, RES
J. Yerokuan, RES
J. Monninger, RES
C. Munson, NRR
C. Hunter, RES\

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC
J. Rootes, NMC
M. Aleksey, NMC
J. Grubb, NMC
P. Burkey, NMC
G. Eckholt, NMC
J. Pairitz, NMC
D. Potter, NMC
R. Dennis, NMC
C. Kerr, Exelon
G. Zinke, Entergy
R. Kuyler, Morgan Lewis
A. Michaiels, EPRI
S. Kraft, NEI
B. Gutherman, ACI Nuclear
B. Bradley, NEI
S. Dolby, Inside NRC
S. Leblang, NMC
T. Brookmire, Dominion
S. Nesbit, Duke Energy
R. Beall, Constellation Energy
J. Weil, McGraw-Hill

NRC STAFF (9/8/2006)
J. Mitchell. RES

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC
L. DeBesse, MIT

September 19, 2006

SCHEDULE AND OUTLINE FOR DISCUSSION
536th ACRS MEETING
OCTOBER 4-6, 2006

WEDNESDAY, OCTOBER 4, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

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

2) 8:35 - 9:30 A.M. Draft Final Revision 3 to Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment" (Open) (WJS/EAT)
   2.1) Remarks by the Subcommittee Chairman
   2.2) Briefing by and discussions with representatives of the NRC staff regarding draft final revision 3 to Regulatory Guide 1.7, which provides guidance for implementing the risk-informed 10 CFR 50.44, "Combustible Gas Control for Nuclear Power Reactors."

3) 9:30 - 11:45 A.M. **(10:30-10:45 A.M. BREAK)** Proposed Updates to Regulatory Guides and Standard Review Plan (SRP) Sections in Support of New Reactor Licensing (Open) (OLM/DCF)
   3.1) Remarks by the Subcommittee Chairman
   3.2) Briefing by and discussions with representatives of the NRC staff regarding proposed updates to Regulatory Guides and SRP Sections that are being made in support of new reactor licensing, criteria used by the staff in selecting Regulatory Guides and SRP Sections applicable to new reactor licensing, and staff's recommendations that the ACRS not review certain Regulatory Guides and SRP Sections along with the reasons therefor.

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

11:45 - 12:45 P.M. ***LUNCH***

4) 12:45 - 2:15 P.M. Master Integrated Plan for New Reactor Licensing Activities (Open) (TSK/DCF)
   4.1) Remarks by the Subcommittee Chairman
   4.2) Briefing by and discussions with representatives of the NRC staff regarding the development of the Master Integrated Plan for new reactor licensing activities.

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

2:15 - 2:30 P.M. *****BREAK*****

5) 2:30 - 4:00 P.M. Draft Report on the Quality Assessment of Selected NRC Research Projects (DAP/HPN)
Discussion of the draft ACRS report on the quality assessment of the NRC research projects on Containment Capacity Study at the Sandia National Laboratories and on Melt Coolability and Concrete Interaction Study at the Argonne National Laboratory.

4:00 - 4:15 P.M. *****BREAK*****

6) 4:15 - 4:30 P.M. Subcommittee Report (Open) (OLM/MAJ/CS)
Report by and discussions with the Chairman of the ACRS Subcommittee on Plant License Renewal regarding interim review of the Oyster Creek license renewal application that was discussed at the October 3, 2006 Subcommittee meeting.

7) 4:30 - 6:30 P.M. Preparation of ACRS Reports (Open/Closed)
Discussion of proposed ACRS reports on:
7.1) Draft Final Revision 3 to Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment" (WJS/EAT)
7.2) Proposed Updates to Regulatory Guides and SRP Sections in Support of New Reactor Licensing (OLM/DCF)

THURSDAY, OCTOBER 5, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

8) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (GBW/JTL/SD)

9) 8:35 - 10:15 A.M. Proposed Revision 1 to Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities" (Open) (GEA/EAT)
9.1) Remarks by the Subcommittee Chairman
9.2) Briefing by and discussions with representatives of the NRC staff regarding proposed revision 1 to Regulatory Guide 1.200, which incorporates the lessons learned from the trial use of this Guide.

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

10:15 - 10:30 A.M. *****BREAK*****

10) 10:30 - 12:00 Noon

Verification and Validation of Selected Fire Models (Open) (GEA/HPN)

10.1) Remarks by the Subcommittee Chairman

10.2) Briefing by and discussions with representatives of the NRC staff, Electric Power Research Institute, and National Institute of Standards and Technology regarding the draft final NUREG document, "Verification and Validation of Selected Fire Models for Nuclear Power Plant Applications."

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

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

11) 1:00 - 2:00 P.M.

Preparation for Meeting With the NRC Commissioners (Open) (GBW, et al./JTL, et al.)

Discussion of the following topics scheduled for discussion during the ACRS meeting with the NRC Commissioners between 2:30 and 4:30 p.m. on Friday, October 20, 2006:

- PWR Sump Performance (GBW/RC)
- Safety Research Program Report (MVB/HPN)
- Lessons Learned from the Review of Early Site Permit Applications (WJS/DCF)
- Future Plant Design Activities and Coordination with the NRC staff on the Master Integrated Schedule [including 10 CFR Part 52 Rulemaking] (TSK/DCF)

12) 2:00 - 2:45 P.M.

Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open) (GBW/JTL/SD)

12.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future ACRS meetings.

12.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments.

13) 2:45 - 3:00 P.M.

Reconciliation of ACRS Comments and Recommendations (Open) (GBW, 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.

3:00 - 3:15 P.M. ***BREAK***

14) 3:15 - 7:00 P.M. Preparation of ACRS Reports (Open)
Discussion of proposed ACRS reports on:
14.1) Draft Final Revision 3 to Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment" (WJS/EAT)
14.2) Proposed Revision 1 to Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities" (GEA/EAT)
14.3) Verification and Validation of Selected Fire Models (GEA/HPN)
14.4) Proposed Updates to Regulatory Guides and SRP Sections in Support of New Reactor Licensing (OLM/DCF)

FRIDAY, OCTOBER 6, 2006, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

15) 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 14.

16) 12:30 - 1:00 P.M. Miscellaneous (Open) (GBW/JTL)
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.

APPENDIX V

LIST OF DOCUMENTS PROVIDED TO THE COMMITTEE
535TH ACRS MEETING
SEPTEMBER 7-9, 2006

[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 ITEM NO.	DOCUMENTS
1	Opening Remarks by the ACRS Chairman 1. Items of Interest dated
2	Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant 2. Monticello Nuclear Generating Plant presentation by Xcel Energy [Viewgraphs] 3. Monticello Nuclear Generating Plant License Renewal Safety Evaluation Report presentation by NRR [Viewgraphs]
4	Draft Final Revision to 10 CFR 50.68, "Criticality Accident Requirements" 4. Criticality Accident Requirements 10 CFR 50.68 Rulemaking presentation by NRR and NMSS
5	State-of-the-Art Consequence Analysis 5. State-of-the-Art Reactor Consequence Analyses (SOAR CA) presentation by NRR, RES, NSIR [Viewgraphs]
12	Future ACRS Activities/Report of the Planning and Procedures Subcommittee 6. Future ACRS Activities/Final Draft Minutes of Planning and Procedures Subcommittee Meeting - September 6, 2006 [Handout #12.1]
13	Reconciliation of ACRS Comments and Recommendations 7. Reconciliation of ACRS Comments and Recommendations [Handout **#XX**]

Appendix V
5**XX**th ACRS Meeting

MEETING NOTEBOOK CONTENTS

TAB	DOCUMENTS
2	Final Review of the License Renewal Application for the Monticello Nuclear Generating Plant
	1. Proposed Agenda/Schedule
	2. Status Report
3	Lessons Learned from the Review of the Early Site Permit
	3. Table of Contents
	4. Proposed Agenda
	5. Status Report for ESP Lessons Learned
4	Draft Final Rule Package to Amend 10 CFR 50.68, "Criticality Accident Requirements"
	6. Table of Contents
	7. Proposed Schedule
	8. Status Report
	9. Memorandum from Ho K. Nieh to John Larkins, Draft Final Rule Package to Amend 10 CFR 50.68, "Criticality Accident Requirements," dated July 12, 2006
	10. Memorandum from John Larkins to Luis Reyes, Draft Final Rule Package to Amend 10 CFR 50.68, "Criticality Accident Requirements," dated July 14, 2006
	11. Spent Fuel Project Office, Interim Staff Guidance-8, Revision 2, "Burnup Credit in the Criticality Safety Analyses of PWR Spent Fuel in Transport and Storage Casks"
	12. Memorandum from C. Withee to M. Hodges, "ISG-8, Rev. 2 Supporting Document," dated September 27, 2006
	13. "Technical Recommendations for the Criticality Safety Review of PWR Storage and Transportation Casks That Use Burnup Credit," C. Withee and C. Parks, dated September 4, 2002
	14. Memorandum from Ho K. Nieh to John Larkins, Revised Draft Final Rule Package to Amend 10 CFR 50.68, "Criticality Accident Requirements," dated August 22, 2006
5	State-of-The-Art Reactor Consequence Analyses
	15. Table of Contents
	16. Proposed Schedule
	17. Status Report
	18. SECY-05-0233, "Plan for Developing State-of-the-Art Reactor Consequence Analyses," dated December 22, 2005
	19. Memorandum from Kenneth R. Hart, Acting Secretary, to Luis A. Reyes, Executive Director for Operations, "Staff Requirements - SECY-05-0233 - Plan for Developing State-of-the-Art Reactor Consequence Analyses," dated April 14, 2006.

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
534th FULL COMMITTEE MEETING

September 7-9, 2006

TODAY'S DATE: September 7, 2006

NRC STAFF - PLEASE SIGN BELOW

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	NAME	NRC ORGANIZATION
1	Jaclyn Storch	NRC - OIG
2	MICHAEL MORLAN	NRC - RLRC
3	Raul Hernandez	NRR \ DSS \ SBPB
4	Roy MATHEW	NRR/RLRC
5	Amar Pal	NRR / DE / EEIB
6	Matthew A. Mitchell	NRR/DCI/CVIB
7	Ram Subramanian	NRR/DLR/RLRA
8	Dan Hang	NRR/DLR RLRC
9	ERIC OESTERLE	NRR/DNRL/NADB
10	Christian Araguas	NRR/DNRL/NAPB
11	Paul Prescott	NRR/DE/EQVA
12	Joelle Starefos	NRC
13	Michelle Hart	NRR/DRA/AADB
14	Mark Blumberg	" " "
15	DAN BARSS	NSIR/DPR
16	Nanette Gilles	NRR/DNRL
17	Stephen Klementowicz	NRR/DIRS
18	KAZ CAMPE	NRR/DRA
19	MILTON CONCEPCION	NRR/DE/EQVA
	Bruce Musico	NRC/NSIR/DPR
	Jocelyn Mitchell	NRC/RES/
	~~KEN GANTNAIT~~	~~[illegible]~~

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
534th FULL COMMITTEE MEETING

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TODAY'S DATE: September 7, 2006

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1	Stephanie Coffin	NRR/DNRL/NARB
2	Robert M. Weisman	OGC/NRP
3	Eileen McKenna	NRR/DPR
4	Jag Lee	NRR/DRA/AADB
5	Nilesh Chokshi	NRR/DE
6	Charles Hinson	NRR/DIRS
7	Donnie Harrison	NRR/DRA/APLA
8	Tony Attard	NRR/DRA/SPNB
9	~~Robert Beall~~	
10	PAUL CLIFFORD	NRR/DSS/SNPB
11	Andrew Barto	NMSS/SFPO/TRD
12	George Tartal	NRR/DPR/PRAB
13	Carl Withee	NMSS/SFPO
14	GORDON BJORKMAN	NMSS/SFPO
15	Jason Zorgel	NRR/DSS/SBPB
16	Josh Wilson	NRR/DSS/SBPB
17	Aloysius Obodoako	NRR/DCI/CSGB
18	Patrick Heher	NRR/DSS/SPWB
19	Bill Ruland	NRC/NMSS/SFPO
20	Geary S. Mizuno	NRC/OGC/R&FC
	JOHN G. LAMB	NRC OCTO

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
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1	DANIEL MERZKE	NRR/DLR
2	Rodrigo De La Garza	NRR/DLR
3	Donnie Ashley	NRR/DLR
4	Kent Howard	NRR/DLR
5	JAMES MEDOFF	NRR/DLR
6	Hans Ashar	NRR/DE
7	Jake Zimmerman	NRR/DLR
8	John Fair	NRR/DE
9	Patricia Loughlin	RIII
10	NOEL DUDLEY	NRR/DLR
11	Evelyn Gettys	NRR/DLR
12	Ken Chang	NRR/DLR
13	Linh Tran	NRR/DLR
14	BOB PALLA	NRR/DRA
15	Jennifer A. Davis	NRR/DLR
16	Raj Auluck	NRR/DLR
17	P H Kuo	NRR/DLR
18	Perry Buckberg	NRR/DLR
19	John S. Ma	NRR/DE
20	JUAN AYALA	NRR/DLR
	Autumn Scald	RES/DRAP

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
535th FULL COMMITTEE MEETING
September 7-9, 2006

September 7, 2006
Today's Date

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	NAME	AFFILIATION
1	JAMES L ROOTES	NUCLEAR MANAGEMENT COMPANY
2	Michael F. Aleksap	Nuclear Management Co.
3	John Grubb	Nuclear Management Co.
4	PAT BURKE	Nuclear Management Co
5	Gene Eckholt	Nuclear Management Co
6	Joseph Pairitz	NMC
7	David J. Potter	Nuclear Management Company
8	Ray Dennis	NMC – Monticello
9	Chris Kerr	Exelon
10	GEORGE ZINKE	ENTERGY / NUSTART
11	Ray Kuyler	Morgan Lewis
12	~~Christian Araq~~	
13	[illegible]	
14	Jenny Weil	McGraw-Hill
15	Cliff Munson	NRC
16	Robert Beall	Constellation Energy
17	Steve Nisbit	Duke Energy
18	Tom Brookmire	Dominion Generation
19	Suzanne LeBlang	NMC
20	Albert MACHIELS	EPRI

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
535th FULL COMMITTEE MEETING
September 7-9, 2006

September 7, 2006
Today's Date

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	NAME	AFFILIATION
1	STEVEN P. KRAFT	NEI
2	BRIAN GUTHERMAN	ACI Nuclear Energy Solutions
3	KENT WOOD	NRR/DSS/SPWB
4	Don Carlson	NRC/RES
5	James Metcalf	Polestar
6	SHAWN BURNS	SANDIA NATIONAL LABS
7	DON DUBE	NRC/RES
8	Michele Laur	NRC/RES
9	MICHAEL DUSANIWSKYJ	NRR/DPR/PRAB
10	~~[illegible]~~	
11	Biff Bradley	NEI
12	KEN CANADAY	EPRI
13	Steve Dolley	Fuels NRC/Matts
14	Tim McCune	NRC/NRR
15	CJ Hunter	NRC/RES
16	Jeff Wood	NRC/RES
17	JAMES VAIL	NRC/NRR
18		
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ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
534th FULL COMMITTEE MEETING

September 7-9, 2006

TODAY'S DATE: September 8, 2006

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	NAME	NRC ORGANIZATION
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ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
535th FULL COMMITTEE MEETING
September 7-9, 2006

September 8, 2006
Today's Date

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	NAME	AFFILIATION
1	Laurene DEBESSE	Massachusetts Institute of Technology.
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