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JUNE 2-4, 1999

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LETTERS

- Proposed Resolution of Generic Safety Issue-165, Spring-Actuated Safety and Relief Valve Reliability (Letter to William D. Travers, Executive Director for Operations, NRC, from Dana A. Powers, Chairman, ACRS, dated June 9, 1999)
- Pilot Application of the Revised Inspection and Assessment Programs, Risk-Based Performance Indicators, and Performance-Based Regulatory Initiatives and Related Matters (Letter to William D. Travers, Executive Director for Operations, NRC, from Dana A. Powers, Chairman, ACRS, dated June 10, 1999)
- Proposed Options for Using Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses (Letter to William D. Travers, Executive Director for Operations, NRC, from Dana A. Powers, Chairman, ACRS, dated June 11, 1999)

MEMORANDUM

- Draft Guide DG-1075, "Emergency Planning and Preparedness for Nuclear Power Reactors" (Memorandum to William D. Travers, Executive Director for Operations, NRC, from John T. Larkins, Executive Director, ACRS, dated June 3, 1999)
- Proposed Final Rule Amending the Fitness-for-Duty Rule (Memorandum to William D. Travers, Executive Director for Operations, NRC, from John T. Larkins, Executive Director, ACRS, dated June 9, 1999)

- Exemption Request to the Hydrogen Control Requirements for the San Onofre Nuclear Generating Station, Units 2 and 3 (Memorandum to William D. Travers, Executive Director for Operations, NRC, from John T. Larkins, Executive Director, ACRS, dated June 9, 1999)

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463rd ACRS Meeting
June 2-4, 1999

MINUTES OF THE 463RD MEETING OF THE
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
JUNE 2-4, 1999
ROCKVILLE, MARYLAND

The 463rd meeting of the Advisory Committee on Reactor Safeguards was held in Conference Room 2B3, Two White Flint North Building, Rockville, Maryland, on June 2-4, 1999. The purpose of this meeting was to discuss and take appropriate action on the items listed in the following meeting minutes. The meeting was open to public attendance. There were no written statements nor requests for time to make oral statements from members of the public regarding the meeting.

A transcript of selected portions of the meeting was kept and is available in the NRC Public Document Room at the Gelman Building, 2120 L Street, N.W., Washington, D.C. [Copies of the transcript are available for purchase from Ann Riley & Associates, Ltd., 1025 Connecticut Avenue, N.W., Suite 1014, Washington, D.C. 20036.]

ATTENDEES

ACRS Members: Dr. Dana A. Powers (Chairman), Dr. George Apostolakis (Vice-Chairman), Dr. Mario V. Bonaca, Dr. Thomas S. Kress, Dr. William J. Shack, Dr. Robert L. Seale, Dr. Robert E. Uhrig, and Dr. Graham B. Wallis. [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. Dana A. Powers, Committee Chairman, convened the meeting at 8:30 a.m. and reviewed the schedule for the meeting. He summarized the agenda topics for this meeting and discussed the administrative items of interest for consideration by the full Committee.

II. Hydrogen Control Exemption Request for the San Onofre Nuclear Generating Station Units 2 and 3 (Open)

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

Dr. Thomas Kress, Cognizant Member, introduced this topic to the Committee. He noted that the Severe Accident Management (SAM) Subcommittee met to review this matter on May 27, 1999. Southern California Edison (SCE) submitted a request for an exemption to hydrogen control requirements required by 10 CFR 50.44, under the Nuclear Energy Institute's Whole Plant Study "Task 0" Program. The San Onofre Nuclear Generating Station (SONGS) hydrogen control system consists of: (1) purge and vent capability, (2) hydrogen recombiners, (3) hydrogen monitoring, and (4) mixing capability. SCE has requested regulatory relief from all but Item (3). Dr. Kress stated that SCE did not evaluate the impact of this exemption request for large, early release frequency (LERF) but noted that this impact was shown acceptable by a qualitative analysis. In response to a question from Dr. Powers, Dr. Kress said that this exemption request meets the strictures of the deterministic rules. Dr. Kress also expressed the view that this licensing action should not be viewed as a blanket approval for all plants.

SCE Presentation

Messrs. E. Scherer and T. Hook discussed the following points relative to the SCE exemption request:

- SCE requests elimination of all regulatory requirements for the recombiners and purge subsystems. SCE will maintain the requirements for the hydrogen monitors.
- Elimination of the hydrogen control system is consistent with the move to risk-informed regulation. The system is not needed for accidents based on realistic assumptions, and is not sized to mitigate severe accident conditions. Further, its elimination will result in a reduction in both plant risk and regulatory burden.
- SCE stated the exemption request is consistent with risk-informed criteria in Regulatory Guide 1.174. These arguments centered on defense-in-

depth, quantification of safety margins to containment failure, and the impact on plant risk. Key points noted include: the hydrogen control systems are only useful for a small category of design-basis accidents (DBAs), based on realistic accident scenarios hydrogen flammability limits are not exceeded until 30 days post-accident, there is a large margin to containment failure from a hydrogen burn given a severe accident - the SONGS large-dry containment can withstand a worse-case burn assuming a hydrogen concentration of 11.5%.

- The severe accident management guidelines (SAMGs) provide guidance for plant recovery if the recombiners and purge system are unavailable.

Mr. Scherer said that SCE has agreed not to remove the hydrogen control equipment. It will be classified as "non-safety-related", be referred to in the SAMGs, and will be used on an "as available" basis. Further, SCE plans to notify the NRC staff if it intends to abandon this equipment in the future.

During the discussion, Dr. Kress noted that the SAM Subcommittee did not see this submittal as being truly risk-informed. SCE agreed, saying that this licensing action does not advance the state-of-the-art in this regard. Mr. Gary Holahan, NRR, stated that this licensing action represents a test of the values NRC places on issues such as hydrogen monitoring (e.g., the staff did not approve the deletion of this requirement). In response to Dr. Wallis, it was noted that the hydrogen control systems were installed in response to the TMI accident. Today, we are more knowledgeable with regard to the need for this equipment. Dr. Bonaca, while agreeing that loss of this equipment carries a low risk significance, was concerned that there is no comprehensive strategy developed to support removal of the equipment from the plant's licensing basis.

NRC Staff Presentation

Mr. M. Snodderly, NRR, made the following points in his presentation:

- Based on the NUREG-1150 analysis of severe accident consequences, failure of large dry containments due to a hydrogen burn is unlikely.
- Hydrogen recombiners are of value for preventing a subsequent burn in containment from long-term buildup of hydrogen due to radiolysis. While the staff agrees with SCE that hydrogen control issues are best dealt with

via the SAMGs, the licensee has not committed to keep use of recombiners in the SAMGs. The staff is working with SCE to determine if any regulatory assurance is needed.

- The exemption request is based on 10 CFR 50.12. SCE has demonstrated that, pursuant to 50.12, SONGS can withstand an uncontrolled hydrogen-oxygen recombination (as directed by the strictures of Part 50.44(d)(1) of 10 CFR) without loss of safety function.
- The staff will require SCE to maintain continuous hydrogen monitoring capability, given the need to monitor hydrogen concentration prior to obtaining and analyzing grab samples.
- SCE meets the requirements for purge capability via a 8-inch, 10-psid design vent and a hardened (150 psid) 6-inch vent.

During discussion, Mr. Holahan said, in response to Dr. Powers, that this was a successful test of applying Regulatory Guide 1.174, but that it took too long. He said that the use of the SAMGs to address issues where the staff wants licensees to maintain mitigative capabilities is appropriate.

Conclusion

The Committee authorized the insurance of a memorandum from the ACRS Executive Director to the NRC Executive Director for Operations, dated June 9, 1999 on this matter.

III. Status of the Pilot Application of the Revised Inspection and Assessment Programs (Open)

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

Dr. Shack, Acting Cognizant Member introduced this topic to the Committee. He noted that the NRC Watchlist of problem facilities and superior performer program had been eliminated since the ACRS last met to discuss this matter.

NRC Staff Presentations

Messrs A. Madison, M. Branch, and G. Parry provided a briefing on the status of the Reactor Oversight Process Improvement Program. The staff discussed the current status of staff actions, the Significance Determination Process (SDP), and future milestones. Key points noted during this staff presentation included:

- The staff has issued the baseline inspection procedures for public comment. The performance indicator manual is nearing completion. The enforcement program is being realigned to "dovetail" with the reactor oversight process. About one-half of the staff's plant inspectors have received training on the new process. The staff has held and will hold numerous public meetings to ensure that all stakeholders have an opportunity to become familiar with the process - a web site has also been established to support this activity. Finally, the pilot program had begun at nine plants, located at eight sites.
- Details of the SDP were noted. The SDP is used to align plant inspection findings to the performance indicators for plant assessment and intended for use by field inspectors. The SDP relies on use of: Regulatory Guide 1.174 criteria for determining the risk values (colors), the ASP criteria for screening events, NUREG/CR-5750, "Rates of Initiating Events at U.S. Nuclear Power Plants: 1987-1995" for initiating event frequencies, and information from PRAs for equipment and human performance reliabilities.
- A feasibility review was conducted to evaluate the usability of the SDP. Plant performance was evaluated using the new methods and the results of the old and new processes were compared. Four plants were involved: Millstone Units 2&3 (1994-1995), D.C. Cook (1996-1997), and St. Lucie and Waterford (1997-1998). The results showed the new process was feasible to test pilot. The SDP was successful, but more work was found to be needed on the inspector screening tools. The new approach was also shown to be more scrutable. Finally, more inspector training is necessary.

An NEI representative indicated that NEI is satisfied with the reactor oversight program as the industry has set its plant performance levels above the staff's threshold values.

During the discussion, Dr. Powers stated that the Office of Nuclear Regulatory Research (RES) will need to expand its study of the quantification of shutdown risk, as the current literature on this matter is inadequate. He also expressed concern that resident inspectors may need to expend more "desk time" for this new Program, at the expense of in-plant inspection time. Finally, the staff said that it is working with the nuclear industry to develop an appropriate screen for dealing with safeguards events.

Prior to recess, Dr. Powers complimented the staff for a heroic effort in assembling this oversight program in such a short time period. Dr. Powers also stated that the Committee will need to evaluate the results of the pilots to address the concerns noted by Dr. Apostolakis with regard to the technical bases and uses of the Performance Indicators, as well as the staff's goals with regard to the pilot applications.

Conclusion

The Committee issued a report to the Executive Director for Operations, dated June 10, 1999, on pilot applications of the revised inspection and assessment programs risk-based performance indicators, and performance-based regulatory initiatives and related matters.

IV. Proposed Risk-Based Performance Indicators (Open)

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

Dr. George Apostolakis, Chairman of the ACRS Subcommittee on Reliability and Probabilistic Risk Assessment (RPRA) introduced this topic to the Committee. He stated that the Committee did not receive the staff's draft Commission paper associated with risk-based performance indicators (PIs) but noted that the staff had provided an advance copy of the presentation viewgraphs and its draft paper entitled, "Development of Risk-Based Performance Indicators," which the staff plans to present at PSA '99.

NRC Staff Presentation

Mr. Patrick Baranowsky, RES, led the discussion for the NRC staff. Messrs. Steven Mays and Thomas Wolf, RES, provided supporting discussion. The staff

discussed the rationale for using PIs in the oversight process; a general definition for risk-based PIs; and principles, attributes, concepts, and limitations of risk-based PIs. Significant points made during the presentation include:

- Risk-based PIs are a key element of proposed improvements to the NRC inspection and assessment programs.
- The staff plans to establish risk-informed thresholds against which licensee performance will be assessed using PIs. Risk-based PIs will include metrics such as frequency, reliability, availability, and probability. Public risk will be evaluated through comparison with accident sequence logic. Thresholds will serve as objective measures for monitoring and assessing system, facility, and licensee performance.
- The staff will utilize the baseline inspection program to supplement evaluation of areas not well addressed by PIs. Reactive inspections will be used to evaluate the causes and corrective actions associated with indication of declining performance.

Dr. Powers questioned why the staff was not developing a PI for safety culture. He noted that there was not much difference between safety culture and the staff's use of the term "safety conscious work environment." The staff stated that they were trying to establish measures that warrant NRC action and not attempting to develop risk models for this initiative. Dr. Apostolakis suggested that the staff consider work by the International Atomic Energy Agency and Swedish Nuclear Power Inspectorate on safety culture.

Dr. Powers also questioned why there was no PI for fire risk. The staff stated that there were not enough fires at nuclear power plants to establish meaningful PIs. The staff added that they do not want to rely heavily on expert opinion which would be necessary to evaluate fire risk.

Dr. Apostolakis suggested that PIs be plant- or design-specific. Dr. Apostolakis noted problems in using generic industry averages. He stated that several plants may already be above the threshold even though they meet NRC criteria for adequate protection. He also noted that a major lesson-learned from PRAs is that each plant is unique and that the risks vary from plant-to-plant.

Dr. Powers questioned why there did not appear to be any PIs for the emergency preparedness, radiation protection, and security "cornerstones." The staff stated that these areas would be considered in the inspection program and that there were no current plans to develop PIs for these areas.

Conclusion

The Committee issued a joint letter to the NRC Executive Director for Operations dated June 10, 1999, on the staff's approach to developing risk-based PIs, pilot application of the revised inspection and assessment programs, and performance-based initiatives and related matters.

V. Performance-Based Regulatory Initiatives and Related Matters (Open)

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

Dr. George Apostolakis, Chairman of the ACRS Subcommittee on Reliability and Probabilistic Risk Assessment (RPRA) introduced the topic to the Committee. He stated that a joint meeting of the ACRS Subcommittees on Reliability and Probabilistic Risk Assessment and on Regulatory Policies and Practices had met on April 21, 1999, to discuss performance-based initiatives and related matters. Dr. Apostolakis stated that the Subcommittees reviewed NUREG/CR-5392, "Elements of an Approach to Performance-Based Regulatory Oversight," which provides a "diamond tree" that shows how management practices affect hardware. He noted that some Subcommittee members liked the diagram while other members, including himself, expressed concern that the approach was too high-level. Dr. Apostolakis also noted that some members suggested that the staff define a set of principles and expectations similar to that provided in Regulatory Guide 1.174 (general guidance for risk-informed decision making) before pursuing development of performance measures. Dr. Apostolakis stated that NEI had sent a letter to the staff stating that research was not needed in this area and that the staff's initiatives should be folded into the inspection and assessment programs (i.e., reactor oversight program).

NRC Staff Presentation

Mr. Ernie Rossi, RES, provided a brief overview of this planned presentation and introduced the NRC staff in attendance. Mr. Prasad Kadambi, RES, led the

discussion for the staff and Mr. Jack Rosenthal, RES, provided supporting discussion. The staff discussed its draft Commission paper entitled, "Plans for Pursuing Performance-Based Initiatives," and NUREG/CR-5392. Significant points made during the presentation include:

- The staff proposes to continue its work to document ongoing NRC activities in order to develop recommendations to better focus staff efforts in performance-based regulation.
- Current performance-based initiatives include elements of the inspection and assessment programs, efforts to make 10 CFR Part 50 risk-informed, the Maintenance Rule, Appendix J for primary containment leak testing, and lessons-learned from the Office Nuclear Materials Safety and Safeguards (NMSS).
- Attributes of a performance-based approach include measurable or calculable parameters, objective criteria, flexibility for licensees to determine how to meet criteria, and a framework of actions for not meeting criteria.
- Stakeholder participation and recommendations were limited. The public workshop was not well attended by industry representatives or members of the public. Also, only two written comments were received (one from NEI and another from a concerned citizen).

Dr. Apostolakis questioned why the program is needed. The staff stated that a number of performance-based activities are ongoing across the NRC and that the proposed Commission paper is in response to a Staff Requirements Memorandum dated February 11, 1999. The staff reiterated that the intent is to document ongoing NRC activities in order to develop recommendations to better focus staff efforts including the identification of possible future initiatives.

Dr. Apostolakis also questioned why the performance-based initiatives appear to compete with risk-informed activities. The staff stated that performance-based initiatives complement risk-informed activities but noted that the NRC lacks a "roadmap" for applying performance-based concepts to other programs.

Dr. Wallis questioned the role of pilots. Related to the inspection and assessment programs, he questioned the goals and objectives of what is to be

accomplished and what measures will be used to demonstrate that what is accomplished is, in fact, better. Dr. Powers stated that it may be difficult to find an individual product coming out of this work. The staff agreed that there may not be an actual work product or program deliverable but expressed hope that the lessons-learned would lead to future opportunities.

At the conclusion of the briefing, Dr. Powers expressed concern that there is no product, no formulated set of questions to be answered, and no standards for conducting pilots. Dr. Wallis stated that there appears to be no measure of reward or payback for continuing this activity. Dr. Kress expressed agreement with Dr. Wallis' comments. Dr. Apostolakis expressed agreement with NEI's recommendation that performance-based initiatives should be merged into the inspection and assessment programs.

Conclusion

The Committee issued a joint letter to the NRC Executive Director for Operations dated June 10, 1999, on performance-based initiatives, pilot application of the revised inspection and assessment programs, and the staff's approach to developing risk-based PIs and related matters.

VI. Use of Averted Costs and Voluntary Initiatives in Regulatory Analyses (Open)

[Note: Mr. Noel F. Dudley was the Designated Federal Official for this portion of the meeting.]

Dr. Thomas S. Kress, Chairman of the Regulatory Policies and Practices Subcommittee, explained that when the staff proposes new requirements on licensees it performs backfit analyses, which include determining the expected costs and benefits associated with the proposed requirements. He stated that the staff normally includes averted onsite costs in cost-benefit analyses performed in accordance with the backfit rule. Dr. Kress described how benefits are calculated by converting the estimated person-rem expected to be saved by the proposed requirements into dollars. He noted that the staff had identified options for how the cost-benefit from licensees voluntary actions could be included in regulatory analyses.

Mr. Sidney Feld, RES, defined averted onsite costs (AOSCs) and explained the present policy for including AOSCs in cost-benefit analyses. He presented the

staff's rationale and concerns related to the current policy and the history of the AOSCs policy. Mr. Feld noted that the policy of using AOSCs in regulatory analyses is consistent with Office of Management and Budget guidance concerning private or internalized benefits.

The ACRS Members and the staff discussed the licensees' arguments against the use of AOSCs, the comparison of present costs with future probabilistic costs, what constitutes societal costs, and the calculation of licensee benefits. The ACRS Members discussed the staff policy of including AOSCs in regulatory analyses with respect to maintaining adequate protection and meeting the intent of the NRC Safety Goals.

Mr. Feld defined voluntary initiatives and explained the present policy for including voluntary initiatives in cost-benefit analyses. He presented the staff's rationale and concerns related to the current policy. Mr. Feld explained the following three options for crediting voluntary programs in cost-benefit analyses:

- use current policy and include a scenario that gives results of a best estimate calculation of the benefits from voluntary initiatives,
- selectively include the results of a best estimate calculation, and
- use results of full credit calculations as the baseline case.

Mr. Feld noted that the staff recommended the second option.

The ACRS Members and the staff discussed the use of sensitivity or uncertainty analyses for problems involving large uncertainties, meaning of the words "selectively" and "measured credit," and what would prevent the elimination of a voluntary action for which credit had been given.

Mr. Alex Marion, NEI, stated the since that NRC is an independent Federal agency it does not have to follow the Executive Order concerning performing comprehensive economics analyses. He suggested that backfit analyses should focus on health and safety considerations and should not include AOSCs, which are an economic consideration. Mr. Marion stated that new requirements should be evaluated on the basis of their effect on core damage frequency irrespective of the economic costs. He explained that credit should be given for voluntary

initiatives because the staff should encourage licensee actions that enhance safety and ensure adequate safety.

The ACRS Members, Mr. Marion, and the staff discussed the requirement for the NRC to follow executive directives, the screening process associated with the backfit rule, the cost effectiveness of regulations that have been implemented, and the use of core damage frequency in screening proposed regulations.

Conclusion

The Committee issued a letter to the Executive Director for Operations, dated June 11, 1999, on this issue.

VII. Development of a Low-Power and Shutdown Risk Program (Open)

[Note: Dr. Medhat El-Zeftawy was the Designated Official for this portion of the meeting.]

Dr. Thomas Kress, Acting Chairman for the Subcommittee on Plant Operations introduced this subject to the Committee. The NRC staff's plans and status for developing a low-power and shutdown (LPSD) risk assessment program was discussed. The ACRS noted that previous NRC studies and operational events indicate that LPSD risk is comparable to full-power risk. In its April 18, 1997 letter, the ACRS stated that it is essential to establish a more complete understanding of LPSD risk.

The Committee discussed two distinct types of application for LPSD risk assessments; namely, (1) risk management of outages, and (2) risk-informing regulations and decisionmaking.

NRC Presentation

Mr. Mark Cunningham, RES, stated that the NRC is developing a LPSD program that includes:

- Assess current LPSD information and identify risk significant concerns;
- Perform research activities that include international cooperative research (COOPRA);

- Develop guidance for LPSD risk sufficient to support risk-informed decisionmaking (e.g., Regulatory Guide 1.174);
- Support development of LPSD consensus PRA standard.

Mr. Cunningham outlined some of the results from NUREG-1150 and LPSD studies for Grand Gulf and Surry plants. He reiterated that LPSD core damage frequency was comparable to full-power operation for some operating states.

The NRC staff held a public workshop on LPSD on April 27, 1999 to solicit and gather information to support staff LPSD programs. Industry groups such as Westinghouse, Scientech, River Bend (Entergy), South Texas, Seabrook, and EPRI participated in the workshop.

The Committee recommended that the staff develop a research program that includes the capability to make comprehensive, defensible, and quantitative shutdown risk assessments. The staff will develop a perspective report that summarizes the staff's understanding of LPSD risk and future work needs. The preliminary draft report is expected to be available in October 1999, and the staff is requesting to brief the ACRS in November 1999. The final report is due to the Commission by December 15, 1999.

Conclusion

The Committee issued a report to Chairman Jackson dated June 11, 1999, on this matter.

VIII. Strategy for ACRS Review of License Renewal Activities (Open)

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

Dr. Mario Bonaca, Chairman of the Plant License Renewal Subcommittee, presented a proposed strategy for reviewing the license renewal process. He suggested that the three major ACRS license renewal review process activities should be:

- review staff safety evaluation reports and related license renewal applications,

- evaluate the effectiveness of the license renewal process, and
- evaluate policy issues.

He provided examples of assessments that could be made for each activity and explained how the ACRS should conduct its review of these activities. He presented a checklist for guiding the ACRS review and evaluations, and listed the expected ACRS products.

The ACRS Members discussed the meaning of the word "demonstrate," use of risk-informed inservice inspection techniques in license renewal aging management programs, and how to maintain cognizance of staff activities.

Conclusion

The Members decided to schedule one hour during each ACRS Full Committee meeting to discuss ACRS review of license renewal safety evaluation reports and processes.

IX. Options for Crediting Existing Programs for License Renewal (Open)

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

Dr. Robert L. Seale, Vice-Chairman of the Plant License Renewal Subcommittee, introduced this session by noting that Calvert Cliff's license renewal application identified hundreds of existing programs that provided monitoring or oversight of potential aging degradation mechanisms. He stated that considerable resources could be conserved if existing programs could be carried forward. Dr. Seale explained that representatives of the staff and NEI were discussing the issue of how existing programs should be credited. He noted that the staff was preparing a Commission paper on the issue and asked Mr. Christopher Grimes, Office of Nuclear Reactor Regulation, to update the Committee on the status of the Commission paper.

Mr. Grimes explained that the issue concerned how to interpret the wording in the statement of considerations for 10 CFR Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants," which requires a demonstration of the effectiveness of programs to manage aging effects. He explained that the

draft Commission paper had not been signed and that a Commission meeting on this subject had been scheduled for the week of July 12, 1999.

The Committee Members and the staff discussed the following issues:

- different possible interpretations of the word "demonstrate,"
- ensuring a stable and predictable license renewal process,
- examples that will be used to discuss how existing programs should be credited,
- using license renewal reviews to evaluate operating plant unresolved issues,
- use of risk in the license renewal process, and
- the schedule for future Committee review of this issue.

Conclusion

The Committee decided to continue its review of this issue.

X. Proposed Resolution of Generic Safety Issues (GSI)-165, "Spring-Actuated Safety and Relief Valve Reliability" (Open)

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

Introduction

Dr. Mario V. Bonaca, Acting Chairman of the Subcommittee on Plant Systems, introduced the topic to the Committee. He stated that the purpose of this briefing was to hear presentations by and hold discussions with representatives of the NRC staff concerning the status of activities related to proposed resolution of Generic Safety Issue (GSI) 165, "Spring-Actuated Safety Relief Valve Reliability."

NRC Staff Presentation

Mr. Owen P. Gormley presented a brief overview and discussed the proposed resolution of GSI-165. He stated that this GSI was identified after licensees, on a number of occasions, reported that spring-actuated safety and relief valves (SRVs) failed to meet set point criteria within the desired tolerance. At the Shearon Harris Nuclear Power Plant, the failure of an SRV had potentially

degraded the high head safety injection system. This failure went undetected for a significant period of time. The primary concern of this GSI was that failure of SRVs in safety-related support systems could cause a significant diversion of flow from these systems thereby preventing the systems from performing their design safety function.

The actions taken to evaluate and resolve this GSI did not confirm the assumptions made in the initial prioritization. To resolve this GSI, the staff conducted a study with the technical assistance of the Idaho National Engineering and Environmental Laboratory (INEEL). The review of related valve data only identified a single valve in one plant type that had the potential for failing a safety train. The SRV was analyzed under worst-case conditions, and the evaluation showed that the increase in core damage frequency (CDF) for that SRV is acceptable 6×10^{-6} per reactor year. This CDF is a conservative estimate of risk since the assumed SRV failure rate included all failure modes, most of which do not lead to significant flow diversion of the associated train. The staff further stated that the review of licensee event reports and the nuclear plant reliability data system database did not identify any other instances of valve spring failure besides the one at the Shearon Harris plant. Additional testing requirements which are required in the 1986 edition of American Society of Mechanical Engineers (ASME) were endorsed by NRC in the 1992 update of 10 CFR 50.55a. On the basis of these testing requirements and evaluation of this GSI, the staff proposed to resolve this issue without issuing any further requirements.

Conclusion

The Committee issued a letter to the Executive Director for Operations, dated June 9, 1999, on this matter.

XI. Report of the Joint ACRS/ACNW Working Group (Open)

[Note: Mr. Noel F. Dudley was the Designated Federal Official for this portion of the meeting]

The Subcommittee Chairman reported on the Joint ACRS/ACNW Working Group regarding matters discussed at the May 11, 1999 meeting and on procedures for reviewing and commenting on items of mutual interest between ACRS and ACNW.

XII. Perspective on Nuclear Safety and the Regulatory Process (Open)

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

Dr. Bonaca, ACRS Member, provided a brief discussion regarding his perspective on nuclear safety and the regulatory process.

XIII. Site Visit to the Susquehanna Steam Electric Station and Meeting with the NRC Region I Personnel (Open)

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

A discussion of the schedule for touring the Susquehanna Steam Electric Station, specific plant areas to be visited, proposed issues for discussion with the licensee, and topics for meeting with representatives of the NRC Region I Office were held.

XIV. Subcommittee Report - Thermal-Hydraulic Phenomena Subcommittee Meeting, May 26, 1999

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

Dr. Graham Wallis, Chairman, Thermal-Hydraulic Phenomena Subcommittee, reported on the results of the May 26, 1999 Subcommittee meeting. The issues discussed included: (1) a proposed revision of Appendix K to 10 CFR Part 50 to allow small cost-beneficial power uprates through the use of highly accurate flow meters, (2) a report on the status of the EPRI RETRAN-3D transient code review, and (3) a round-table discussion on the development of NRC's code review guidelines. For Item (1) Dr. Wallis indicated that the Subcommittee's reaction to the proposed revision of Appendix K was favorable; the Committee will review this matter during its July meeting. For Item (2), the review is going poorly, and will likely be delayed for receipt of a submittal from EPRI containing a revision to a major code model. In addition, Dr. Wallis noted that he has raised a number of significant concerns with the code, based on a review of the code manual. Regarding Item (3), the Subcommittee held a round-table discussion with regard to the principles/criterion that need to be included in the code review

guidelines. Representatives of NRR, RES, the RETRAN Users Group, and Westinghouse Electric Company participated. Dr. Wallis intends to provide the Committee a write-up summarizing the results of this discussion.

Conclusion

The Committee will hold a Structured Discussion during its July meeting focused on the development of code review guidelines by the staff and the status of the RETRAN-3D code review.

XV. 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) dated May 12, 1999 to the ACRS comments and recommendations included in the ACRS letter dated March 24, 1999 concerning the application of Westinghouse realistic LOCA analysis methodology to upper plenum injection plants.

The Committee expressed concern that the EDO's response was not complete. The Committee plans to continue its discussions on this matter in conjunction with its review of the staff's program to develop guidelines governing NRC's review of transient and accident codes.

- The Committee discussed the response from the NRC Executive Director for Operations (EDO) dated May 10, 1999, to the ACRS comments and recommendations included in the ACRS letter dated April 19, 1999, concerning SECY-99-017, "Proposed Amendment to 10 CFR 50.55a."

The Committee decided that it was satisfied with the EDO's response and plans to continue its discussion of this matter after the reconciliation of

public comments concerning the elimination of the 120 month update requirement.

- The Committee discussed the response from the EDO dated May 12, 1999, to the ACRS comments and recommendations included in the ACRS letter dated March 22, 1999, concerning the lessons learned from the ACRS review of the AP600 design.

The Committee decided that it was satisfied with the EDO's response on most issues, but, plans to continue its review of the environmental qualification of passive autocatalytic recombiners at a later date in connection with an issues that is risk significant. ACRS persists in its belief, staff does not have a defensible technical basis for catalytic device review.

- The Committee discussed the response from the NRC Executive Director for Operations dated May 13, 1999, to ACRS comments and recommendations in the ACRS report dated March 25, 1999, concerning the proposed ASME Standard entitled, Probabilistic Risk Assessment for Nuclear Power Plant Applications.

The Committee decided that it was satisfied with the EDO's response. The Committee plans to review the proposed revision to Regulatory Guide 1.174 and associated final ASME Standard, when available.

- The Committee discussed the response from the NRC Executive Director for Operations dated May 24, 1999, to ACRS comments and recommendations in the ACRS report dated April 19, 1999, concerning the status of efforts on revising the Commission's Safety Goal Policy Statement.

The Committee decided that it was satisfied with the EDO's response. The Committee plans to continue its review of proposed revisions to the Policy Statement during future meetings.

- The Committee discussed the response from the Executive Director for Operations dated May 26, 1999, to ACRS comments and recommendations in the ACRS report dated April 23, 1999, concerning proposed revisions to the NRC generic communications process.

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 Dr. Powers and the Executive Director, ACRS, on the Planning and Procedures Subcommittee meeting held on June 1, 1999. The following items were discussed:

- Review of the June ACRS Meeting Schedule, Member Assignments, and Priorities for ACRS Reports and Letters

The schedule for the June ACRS meeting, member assignments, and priorities for ACRS reports and letters was addressed.

- Review of Activities Scheduled for Future ACRS Meetings and Member Assignments

The activities scheduled for July 1999 and later ACRS meetings along with member assignments were addressed. The objectives were: (1) to review the reasons for the scheduling of each activity and the expected work product and to make changes, as appropriate, (2) to manage the members' workload for these meetings, and (3) to plan and schedule items for ACRS discussion of topical and emerging issues.

- Status of the NRC Staff's Schedule for the Resolution of Generic Safety Issues (GSIs)

The NRC staff was tasked with reporting to Congress on a monthly basis on a variety of issues, including the schedule for the resolution of GSIs. It is apparent that the schedules given to Congress for the resolution of some of these GSIs will not be met. ACRS management is working with RES and NRR to ensure that the NRC staff schedules take into account the need for ACRS review as part of the resolution process and the need to schedule time for the staff to address potential ACRS concerns.

- Update of the PRA Implementation Plan

The Reliability and PRA Subcommittee has requested Dr. Apostolakis propose a plan for making recommendations for reviewing staff plans associated with revising the PRA Implementation Plan.

- Schedule for the Issuance of the Next Safety Research Report

The ACRS intends to issue the next Safety Research Report on a schedule that will better accommodate the Commission's decisionmaking process for the budget. This would involve issuing the next report no later than the February 2000 ACRS meeting.

- Status of ACRS/ACNW Joint Working Group Activities

The Joint Working Group met on May 11, 1999. A proposed protocol for the operation of the Joint Working Group has been established.

- Strategy for Near-Term ACRS Activities/Lessons Learned from ACRS Meetings

The Subcommittee discussed its proposal for an overall strategy for the ACRS reviews for the remainder of this calendar year and lessons learned from recent ACRS meetings. The schedule for the June 1999 ACRS meeting includes an extended break for ACRS Subcommittee Chairmen to prepare or revise draft letters in preparation for the letterwriting sessions.

C. Future Meeting Agenda

Appendix IV summarizes the proposed items endorsed by the Committee for the 464th ACRS Meeting, July 14-16, 1999.

The 463rd ACRS meeting was adjourned at 4:30 p.m. on June 4, 1999.

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 June 1, 1999, Room T-2B1, 11545 Rockville Pike, Rockville, Maryland.

The entire meeting will be open to public attendance, with the exception of a portion that may be closed pursuant to 5 U.S.C. 552b(c) (2) and (6) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of 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:

Tuesday June 1, 1999—1:00 p.m. until the conclusion of business.

The Subcommittee will discuss proposed ACRS activities and related matters. It may also discuss the status of appointment of a new member to the ACRS. The purpose of this meeting is to gather information, analyze relevant issues and facts, and to formulate proposed positions and actions, as appropriate, for deliberation by the full Committee.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman; written statements will be accepted and made available to the Committee. Electronic recordings will be permitted only during those portions of the meeting that are open to the public, and questions may be asked only by members of the Subcommittee, its consultants, and staff. Persons desiring to make oral statements should notify the cognizant ACRS staff person named below five days prior to the meeting, if possible, so that appropriate arrangements can be made.

Further information regarding topics to be discussed, the scheduling of sessions open to the public, 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 therefor can be obtained by contacting the cognizant ACRS staff person, Dr. John T. Larkins (telephone: 301/415-7360) between 7:30 a.m. and 4:15 p.m. (EDT). Persons planning to attend this meeting are urged to contact the above named individual one or two working days prior to the meeting to be advised of any changes in schedule, etc., that may have occurred.

Dated: May 13, 1999.

Richard P. Savio,

Associate Director for Technical Support,
ACRS/ACNW.

[FR Doc. 99-12620 Filed 5-18-99; 8:45 am]

BILLING CODE 7560-01-P

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards; Joint Meeting of the Subcommittees on Plant Operations and on Fire Protection; Notice of Meeting

The ACRS Subcommittees on Plant Operations and on Fire Protection will hold a joint meeting on June 23, 1999, NRC Region I Office, 475 Allendale Road, Public Meeting Room, King of Prussia, Pennsylvania.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Wednesday, June 23, 1999—8:30 a.m. until the conclusion of business

The Subcommittees will discuss items of mutual interest with the representatives of NRC Region I Office, including plant performance review process, implementation challenges associated with the revised inspection and assessment programs, and fire protection issues, including the results of the fire protection functional inspections. The purpose of this meeting is to gather information, analyze relevant issues and facts, and to formulate proposed positions and actions, as appropriate, for deliberation by the full Committee.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman and written statements will be accepted and made available to the Committee. Electronic recordings will be permitted only during those portions of the meeting that are open to the public, and questions may be asked only by members of the Subcommittees, their consultants, and staff. Persons desiring to make oral statements should notify the cognizant ACRS staff engineer named below five days prior to the meeting, if possible, so that appropriate arrangements can be made.

During the initial portion of the meeting, the Subcommittees, along with any of their consultants who may be present, may exchange preliminary views regarding matters to be considered during the balance of the meeting.

The Subcommittees will then hear presentations by and hold discussions

with representatives of the NRC Region I Office, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been canceled or rescheduled, and the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor, can be obtained by contacting the cognizant ACRS staff engineer, Mr. Amarjit Singh (telephone 301/415-6899) between 7:30 a.m. and 4:15 p.m. (EDT). Persons planning to attend this meeting are urged to contact the above named individual one or two working days prior to the meeting to be advised of any potential changes to the agenda, etc., that may have occurred.

Dated: May 13, 1999.

Sam Duraiswamy,

ACRS.

[FR Doc. 99-12621 Filed 5-18-99; 8:45 am]

BILLING CODE 7560-01-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 will hold a meeting on June 2-4, 1999, in Conference Room T-2B3, 11545 Rockville Pike, Rockville, Maryland. The date of this meeting was previously published in the Federal Register on Wednesday, November 18, 1998 (63 FR 64105).

Wednesday, June 2, 1999

8:30 A.M.—8:45 A.M.: Opening Remarks by the ACRS Chairman (Open)—The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

8:45 A.M.—10:15 A.M.: Hydrogen Control Exemption Request for the San Onofre Nuclear Generating Station Units 2 and 3 (Open)—The Committee will hear presentations by and hold discussions with representatives of the Southern California Edison (SCE) and NRC staff regarding the request by SCE for a license exemption to the hydrogen control requirements at San Onofre Nuclear Generating Station Units 2 and 3 and the associated NRC staff's Safety Evaluation Report.

10:30 A.M.—12:00 Noon: Status of the Pilot Application of the Revised Inspection and Assessment Programs (Open)—The Committee will hear presentations by and hold discussions

with representatives of the NRC staff regarding the status of the pilot application of the revised inspection and assessment programs, and related matters.

1:00 P.M.-2:30 P.M.: Proposed Risk-Based Performance Indicators (Open)—The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding the proposed risk-based performance indicators (PIs), trial application of PIs, and identification of thresholds for regulatory action.

2:45 P.M.-4:15 P.M.: Performance-Based Regulatory Initiatives and Related Matters (Open)—The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding performance-based regulatory initiatives and related matters.

5:15 P.M.-7:00 P.M.: Discussion of ACRS Reports (Open)—The Committee will discuss proposed ACRS reports.

Thursday, June 3, 1999

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.-10:00 A.M.: Use of Averted Onsite Costs in Regulatory Analyses (Open)—The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding proposed options for using averted onsite costs in regulatory analyses.

10:15 A.M.-11:15 A.M.: Development of a Low-Power and Shutdown Risk Program (Open)—The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding the status of development of a low-power and shutdown risk program.

11:15 A.M.-11:45 A.M.: Strategy for ACRS Review of License Renewal Activities (Open)—The Committee will discuss a proposed strategy for ACRS review of plant-specific license renewal applications, industry topical reports, and related matters.

12:45 P.M.-2:15 P.M.: Options for Crediting Existing Programs for License Renewal (Open)—The Committee will hear presentations by and hold discussions with representatives of the NRC staff regarding proposed options for crediting existing NRC-approved programs for license renewal.

2:30 P.M.-3:30 P.M.: Proposed Resolution of Generic Safety Issue (GSI)-165, "Spring-Actuated Safety and Relief Valve Reliability" (Open)—The Committee will hear presentations by

and hold discussions with representatives of the NRC staff regarding the proposed resolution of GSI-165.

3:30 P.M.-4:00 P.M.: Report of the Joint ACRS/ACNW Working Group (Open)—The Committee will hear a report of the Joint ACRS/ACNW Working Group regarding its review of SECY-99-100, "Framework for Risk-Informed Regulation in the Office of Nuclear Material Safety and Safeguards," and procedures for reviewing and commenting on items of mutual interest between ACRS and ACNW.

5:00 P.M.-7:15 P.M.: Preparation of ACRS Reports (Open)—The Committee will discuss proposed ACRS reports.

Friday, June 4, 1999

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.-9:30 A.M.: Perspective on Nuclear Safety and the Regulatory Process (Open)—The Committee will hear a presentation by and hold discussions with Dr. Bonaca, ACRS member, regarding his perspective on nuclear safety and the regulatory process.

9:30 A.M.-10:00 A.M.: Site Visit to the Susquehanna Steam Electric Station and Meeting with the NRC Region I Personnel (Open)—The Committee will discuss the proposed schedule for touring the Susquehanna Steam Electric Station, specific plant areas to be visited, proposed issues for discussion with the licensee, and topics for discussion with representatives of the NRC Region I Office.

10:15 A.M.-10:45 A.M.: Future ACRS Activities (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.

10:45 A.M.-11:15 A.M.: Report of the Planning and Procedures Subcommittee (Open/Closed)—The Committee will hear a report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, and organizational and personnel matters relating to the ACRS.

NOTE: A portion of this session may be closed to discuss organizational and personnel matters that relate solely to the internal personnel rules and practices of this Advisory Committee, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.

11:15 A.M.-11:30 A.M.: Reconciliation of ACRS Comments and

Recommendations (Open)—The Committee will discuss the responses from the NRC Executive Director for Operations (EDO) to comments and recommendations included in recent ACRS reports and letters, including the EDO responses to the ACRS reports on proposed amendment to 10 CFR 50.55a, dated April 19, 1999, and on the proposed ASME Standard for PRA for Nuclear Power Plant Applications (Phase 1), dated March 25, 1999.

12:30 P.M.-5:00 P.M.: Preparation of ACRS Reports (Open)—The Committee will continue its discussion of proposed ACRS reports.

5:00 P.M.-5:30 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, 1998 (63 FR 51968). In accordance with these 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 and questions may be asked only by members of the Committee, its consultants, and staff. Persons desiring to make oral statements should notify Mr. Sam Duraiswamy, ACRS, 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 this 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 Mr. Duraiswamy 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 Mr. Duraiswamy if such rescheduling would result in major inconvenience.

In accordance with Subsection 10(d), Pub. L. 92-463, I have determined that it is necessary to close portions of this meeting noted above to discuss matters that relate solely to the internal personnel rules and practices of this Advisory Committee per 5 U.S.C. 552b(c)(2) and to discuss information the release of which would constitute a clearly unwarranted invasion of personal privacy per 5 U.S.C. 552b(c)(6).



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

May 25, 1999 - REVISED

SCHEDULE AND OUTLINE FOR DISCUSSION
 463rd ACRS MEETING
 JUNE 2-4, 1999

WEDNESDAY, JUNE 2, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH,
 ROCKVILLE, MARYLAND

- 1) 8:30 - 8:45³⁵ A.M. Opening Remarks by the ACRS Chairman (Open)
 1.1) Opening statement (DAP/JTL/RPS)
 1.2) Items of current interest (DAP/NFD/SD)
 1.3) Priorities for preparation of ACRS reports (DAP/JTL/SD)
- 2) 8:45³⁵ - 10:15²¹ A.M. Hydrogen Control Exemption Request for the San Onofre Nuclear
 Generating Station Units 2 and 3 (Open) (TSK/PAB)
 2.1) Remarks by the Subcommittee Chairman
 2.2) Briefing by and discussions with representatives of the Southern
 California Edison (SCE) and NRC staff regarding the request by
 SCE for a license exemption to the hydrogen control
 requirements for the San Onofre Nuclear Generating Station
 Units 2 and 3, and the associated NRC staff's Safety Evaluation
 Report.
- 10:15²¹ - 10:30⁴⁰ A.M. *****BREAK*****
- 3) 10:30⁴⁰ - 12:00³⁰ Noon Status of the Pilot Application of the Revised Inspection and Assessment
 Programs (Open) (JJB/PAB)
 3.1) Remarks by the Subcommittee Chairman
 3.2) Briefing by and discussions with representatives of the NRC staff
 regarding the status of the pilot application of the revised
 inspection and assessment programs, and related matters.
- Representatives of the nuclear industry will provide their views, as
 appropriate.
- 12:00³⁰ - 1:00³⁰ P.M. *****LUNCH*****
- 4) 1:00³⁰ - 2:30 P.M. Proposed Risk-Based Performance Indicators (Open) (GA/MTM)
 4.1) Remarks by the Subcommittee Chairman
 4.2) Briefing by and discussions with representatives of the NRC staff
 regarding the proposed risk-based performance indicators (PIs),
 trial application of PIs, and identification of thresholds for
 regulatory action.

Representatives of the nuclear industry will provide their views, as
 appropriate.

2:30 - 2:45 P.M.

BREAK

5) 2:45 - 4:²⁰15 P.M.Performance-Based Regulatory Initiatives and Related Matters (Open)
(GA/MTM)

- 5.1) Remarks by the Subcommittee Chairman
- 5.2) Briefing by and discussions with representatives of the NRC staff regarding performance-based regulatory initiatives and related matters.

Representatives of the nuclear industry will provide their views, as appropriate.

4:20 - 5:05

4:15 - 5:15 P.M.

5:05 - 6:00

*Letter Discussion*Break and Preparation of ACRS Reports

Cognizant ACRS Members will prepare draft reports for consideration by the Committee

6) 5:^{6:00}15 - 7:00 P.M.Discussion of ACRS Reports (Open)

Discussion of proposed ACRS reports on:

- 6.1) Performance-Based Regulatory Initiatives (GA/MTM)
- 6.2) Risk-Based Performance Indicators (GA/MTM)
- 6.3) Exemption Request to Hydrogen Control Requirements for San Onofre Units 2 and 3 (TSK/PAB)
- 6.4) Status of Pilot Application of the Revised Inspection and Assessment Programs (JJB/PAB)

THURSDAY, JUNE 3, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

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

Opening Remarks by the ACRS Chairman (Open) (DAP/RPS)8) 8:35 - 10:⁰⁵00 A.M.Use of Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses (Open) (TSK/NFD)

- 8.1) Remarks by the Subcommittee Chairman
- 8.2) Briefing by and discussions with representatives of the NRC staff regarding proposed options for treating averted onsite costs and voluntary initiatives in regulatory analyses.

Representatives of the nuclear industry will provide their views, as appropriate.

10:⁰⁵00 - 10:²⁵15 A.M.

BREAK

9) 10:²⁵15 - 11:⁴⁰15 A.M.Development of a Low-Power and Shutdown Risk Program (Open)
(JJB/MME)

- 9.1) Remarks by the Subcommittee Chairman
- 9.2) Briefing by and discussions with representatives of the NRC staff regarding the status of development of a low-power and shutdown risk program.

Representatives of the nuclear industry will provide their views, as appropriate.

^{40-12:02 PM}
10) 11:15 - 11:45 A.M.

Strategy for ACRS Review of License Renewal Activities (Open)
(MVB/NFD)

Discussion of a proposed ACRS strategy for reviewing plant-specific license renewal applications, industry topical reports, and related matters.

^{12:02}
11:45 - 12:45 P.M.

LUNCH

^{1:25}
11) 12:45 - 2:15 P.M.

Options for Crediting Existing Programs for License Renewal (Open)
(RLS/NFD)

11.1) Remarks by the Cognizant ACRS Member

11.2) Briefing by and discussions with representatives of the NRC staff regarding proposed options for crediting existing NRC-approved programs for license renewal.

Representatives of the nuclear industry will provide their views, as appropriate.

^{2:30} ^{2:35}
2:15 - 2:30 P.M.

BREAK

³⁵ ³⁵
12) 2:30 - 3:30 P.M.

Proposed Resolution of Generic Safety Issue (GSI)-165, "Spring-Actuated Safety and Relief Valve Reliability" (Open) (MVB/AS)

12.1) Remarks by the Subcommittee Chairman

12.2) Briefing by and discussions with representatives of the NRC staff regarding the proposed resolution of GSI-165.

³⁵ ⁰⁵
13) 3:30 - 4:00 P.M.

Report of the Joint ACRS/ACNW Working Group (Open)
(TSK/GA/NFD/JS)

Report of the Joint ACRS/ACNW Working Group regarding matters discussed at the May 11, 1999 meeting and procedures for reviewing and commenting on items of mutual interest between ACRS and ACNW.

¹⁰
4:00 - 5:00 P.M.

Break and Preparation of ACRS Reports

Cognizant ACRS Members will prepare draft reports for consideration by Committee.

14) 5:00 - 7:15 P.M.

Discussion of ACRS Reports (Open)

Discussion of proposed ACRS reports:

14.1) Proposed Resolution of GSI-165 (MVB/AS)

14.2) Use of Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses (TSK/NFD)

14.3) Options for Crediting Existing Programs for License Renewal (RLS/NFD)

14.4) Development of Low-Power and Shutdown Risk Program (JJB/MME)

FRIDAY, JUNE 4, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 15) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (DAP/RPS)
- 16) 8:35 - 9:⁵⁵~~30~~ A.M. Perspective on Nuclear Safety and the Regulatory Process (Open)
(MVB/AS)
Briefing by and discussions with Dr. Bonaca, ACRS Member, regarding his perspective on nuclear safety and the regulatory process.
- 17) ^{10:00 - 20}~~9:30 - 10:00~~ A.M. Site Visit to the Susquehanna Steam Electric Station and Meeting with the NRC Region I Personnel (Open) (JJB/DAP/AS)
Discussion of the proposed schedule for touring the Susquehanna Steam Electric Station, specific plant areas to be visited, proposed issues for discussion with the licensee, and topics for meeting with representatives of the NRC Region I Office.
- ^{20 - 55}~~10:00 - 10:15~~ A.M. *****BREAK*****
- 18) ^{35 55}~~10:15 - 10:45~~ A.M. Future ACRS Activities (Open) (DAP/JTL/RPS)
Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future meetings.
- ~~19) ~~10:45 - 11:15~~ A.M. Report of the Planning and Procedures Subcommittee (Open/Closed)
(DAP/JTL)
Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, and organizational and personnel matters relating to the ACRS.~~
- ~~[Note: A portion of this session may be closed to discuss organizational and personnel matters that relate solely to the internal personnel rules and practices of this Advisory Committee, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]~~
- 20) ⁰⁵~~11:15 - 11:30~~ A.M. Reconciliation of ACRS Comments and Recommendations (Open)
(DAP, 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.
- 11:30 - 12:30 P.M. *****LUNCH*****

21) 12:30 - ^{4:30}5:00 P.M.
 (2:30-2:45 P.M. BREAK)

Discussion of ACRS Reports (Open)

Continue discussion of proposed ACRS reports on:

- 21.1) Risk-Based Performance Indicators (GA/MTM)
- 21.2) Performance-Based Regulatory Initiatives (GA/MTM)
- 21.3) Exemption Request to Hydrogen Control Requirements for San Onofre Units 2 and 3 (TSK/PAB)
- 21.4) Status of Pilot Applications of the Revised Inspection and Assessment Programs (JJB/PAB)
- 21.5) Development of Low-Power and Shutdown Risk Program (JJB/MME)
- 21.6) Options for Crediting Existing Programs for License Renewal (RLS/NFD)
- 21.7) Use of Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses (TSK/NFD)
- 21.8) Proposed Resolution of GSI -165 (MVB/AS)

~~22) 5:00 - 5:30 P.M.~~

~~Miscellaneous (Open) (DAP/JTL/RPS)~~

~~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.**
- **Number of copies of the presentation materials to be provided to the ACRS - 35.**

APPENDIX III: MEETING ATTENDEES

463RD ACRS MEETING JUNE 2-4, 1999

NRC STAFF (June 2, 1999)

J. Mitchell, OEDO
M. Snodderly, NRR
B. Palla, NRR
J. Wigginton, NRR
R. Pedersen, NRR
M. Branch, NRR
A. Madison, NRR
S. Wong, NRR
M. Johnson, NRR
W. Lyon, NRR
D. Allsopp, NRR
M. Shnaihi, NRR
G. Parry, NRR
R. Gallo, NRR
R. Eckenrode, NRR
D. Coe, NRR
T. Frye, NRR
T. Wolf, NRR
C. Holden, NRR
R. Sullivan, NRR
D. Rosano, NRR
A. Malliakos, RES
A. Natafrancesa, RES
D. Marksberry, RES
E. Rodrick, RES
G. Lanik, RES
N. Kadambi, RES
J. Ibarra, RES
E. Rossi, RES
J. Rosenthal, RES

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC

J. Sieber, Self
J. Rainsberry, Southern California Edison
T. Hook, Southern California Edison
A. Scherer, Southern California Edison
J. Richardson, Richardson Associates
T. Houghton, NEI
D. Raleigh, Bechtel
B. Youngblood, Scientech
T. Grover, Baltimore Gas & Electric
C. Amoruso, NUS Inc.
T. Leahy, INEEL

NRC STAFF (June 3, 1999)

S. Crockett, OCM/EM

P. Castleman, OCM/NJD

T. Hiltz, OEDO

H. Vandermolen, RES

J. Rosenthal, RES

T. King, RES

J. Vora, RES

J. Craig, RES

F. Cherny, RES

O. Gormley, RES

S. Bahadur, RES

G. Parry, NRR

W. Lyon, NRR

M. Shnauhi, NRR

M. Pohida, NRR

C. Grimes, NRR

S. Newberry, NRR

J. Anderson, NRR

J. Zimmerman, NRR

S. Lee, NRR

P. T. Kuo, NRR

D. Soloio, NRR

G. Hammer, NRR

B. Bateman, NRR

D. Terao, NRR

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC

A. Marion, NEI

L. Helfer, Winston & Strawn

J. Richardson, Richardson Assoc.

C. Amoruso, NUS

A. Carson, Bechtel

NRC STAFF (June 4, 1999)

J. Mitchell, OEDO
S. Dinsmore, NRR
S. Weerakkody, RES

ATTENDEES FROM OTHER AGENCIES AND GENERAL PUBLIC

C. Amoruso, NUS



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

June 28, 1999

REVISED

SCHEDULE AND OUTLINE FOR DISCUSSION
 464th ACRS MEETING
 JULY 14-16, 1999

WEDNESDAY, JULY 14, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH,
 ROCKVILLE, MARYLAND

- 1) 8:30 - 8:45 A.M. Opening Remarks by the ACRS Chairman (Open)
- 1.1) Opening statement (DAP/JTL/RPS)
 - 1.2) Items of current interest (DAP/NFD/SD)
 - 1.3) Priorities for preparation of ACRS reports (DAP/JTL/SD)
- 2) 8:45 - 10:15 A.M. Electric Power Research Institute (EPRI) RETRAN-3D Thermal-Hydraulic Transient Analysis Code (Open) (GBW/PAB)
- 2.1) Remarks by the Subcommittee Chairman
 - 2.2) Briefing by and discussions with representatives of the NRC staff regarding the status of the review of the EPRI RETRAN-3D thermal-hydraulic transient analysis code.

Representatives of the nuclear industry will provide their views, as appropriate.

10:15 - 10:30 A.M.

BREAK

- 3) 10:30 - 11:30 A.M. Proposed Revision to Appendix K of 10 CFR Part 50 (Open) (GBW/PAB)
- 3.1) Remarks by the Subcommittee Chairman
 - 3.2) Briefing by and discussions with representatives of the NRC staff regarding proposed revision to Appendix K, "ECCS Evaluation Models," to allow minor power level increases, and related matters.

Representatives of the nuclear industry will provide their views, as appropriate.

11:30 - 12:30 P.M.

LUNCH

- 4) 12:30 - 2:00 P.M. Options for Crediting Existing Programs for License Renewal (Open) (RLS/NFD)
- 4.1) Remarks by the Cognizant ACRS Member
 - 4.2) Briefing by and discussions with representatives of the NRC staff and the Nuclear Energy Institute regarding the proposed options for crediting existing NRC-approved programs for license renewal.

Representatives of other industry or public groups will provide their views, as appropriate.

- 2:00 - 2:15 P.M. *****BREAK*****
- 5) 2:15 - 3:45 P.M. Proposed Revision 3 to Regulatory Guide 1.160 (DG-1082), "Assessing and Managing Risk Before Maintenance Activities at Nuclear Power Plants" (Open) (JJB/AS)
 5.1) Remarks by the Subcommittee Chairman
 5.2) Briefing by and discussions with representatives of the NRC staff regarding the proposed revision 3 to Regulatory Guide 1.160.
- Representatives of the nuclear industry will provide their views, as appropriate.
- 3:45 - 4:00 P.M. *****BREAK*****
- 6) 4:00 - 5:00 P.M. Proposed Approach for Revising 10 CFR 50.61, Pressurized Thermal Shock Rule (Open) (WJS/NFD/JDP)
 6.1) Remarks by the Subcommittee Chairman
 6.2) Briefing by and discussions with representatives of the NRC staff regarding the staff's proposed approach for revising the Pressurized Thermal Shock Rule.
- Representatives of the nuclear industry will provide their views, as appropriate.
- 7) 5:00 - 6:00 P.M. Break and Preparation of Draft ACRS Reports
 Cognizant ACRS members will prepare draft reports for consideration by the full Committee.
- 8) 6:00 - 7:15 P.M. Discussion of Proposed ACRS Reports (Open)
 Discussion of proposed ACRS reports on:
 8.1) Proposed Revision 3 to Regulatory Guide 1.160 (JJB/AS)
 8.2) Options for Crediting Existing Programs for License Renewal (RLS/NFD)
 8.3) Proposed Revision to Appendix K of 10 CFR Part 50 (GBW/PAB)
 8.4) EPRI RETRAN-3D Thermal-Hydraulic Transient Analysis Code (GBW/PAB)

THURSDAY, JULY 15, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 9) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (DAP/RPS)
- 10) 8:35 - 10:00 A.M. Proposed Final Regulatory Guide for Updating Final Safety Analysis Reports (Open) (JJB/MTM)
 10.1) Remarks by the Subcommittee Chairman
 10.2) Briefing by and discussions with representatives of the NRC staff and the Nuclear Energy Institute (NEI) regarding proposed final Regulatory Guide for Updating the Final Safety Analysis Reports, and related matters.

10:00 - 10:15 A.M.

BREAK

11) 10:15 - 12:00 Noon

Control Room Habitability (Open) (TSK/PAB/AS)

- 11.1) Remarks by the Subcommittee Chairman
- 11.2) Briefing by and discussions with: Dr. Kovach, an invited expert, on control room habitability issues; representatives of the NRC staff on staff activities associated with resolving control room habitability issues; and representatives of NEI regarding industry activities related to control room habitability.

12:00 - 1:00 P.M.

LUNCH

12) 1:00 - 2:30 P.M.

Proposed Amendment to 10 CFR 50.55a (Open) (WJS/NFD)

- 12.1) Remarks by the Subcommittee Chairman
- 12.2) Briefing by and discussions with representatives of the NRC staff regarding the proposed amendment to 10 CFR 50.55a, including the proposed staff position on eliminating the regulatory requirement for licensees to update their inservice inspection and inservice testing programs every 120 months, and related matters.

Representatives of the nuclear industry will provide their views, as appropriate.

13) 2:30 - 2:45 P.M.

Subcommittee Report (Open) (GA/MTM)

Report by the Chairman of the ACRS Subcommittees on Reliability and Probabilistic Risk Assessment and on Regulatory Policies and Practices regarding matters discussed at the July 13, 1999 joint meeting, including the development of risk-informed revisions to 10 CFR Part 50, proposed definitions and scope changes related to structures, systems, and components, as well as policy issues, special studies, and related matters.

Representatives of the NRC staff will provide their views, as appropriate.

2:45 - 3:00 P.M.

BREAK

14) 3:00 - 3:45 P.M.

Proposed Plan for Preparation of the Annual ACRS Report to the Commission (Open) (GBW/MME)

Discussion of proposed plan for preparing the next annual ACRS report to the Commission on the NRC Safety Research Program.

15) 3:45 - 4:45 P.M.

Break and Preparation of Draft ACRS Reports

Cognizant ACRS members will prepare draft reports for consideration by the full Committee.

- 16) 4:45 - 7:15 P.M. Discussion of Proposed ACRS Reports (Open)
 Discussion of proposed ACRS reports on:
- 16.1) Proposed Amendment to 10 CFR 50.55a (WJS/NFD)
 - 16.2) Control Room Habitability Issues (TSK/PAB/AS)
 - 16.3) Proposed Final Regulatory Guide for Updating FSARs (JJB/MTM)
 - 16.4) Proposed Revision 3 to Regulatory Guide 1.160 (JJB/AS)
 - 16.5) Options for Crediting Existing Programs for License Renewal (RLS/NFD)
 - 16.6) Proposed Revision to Appendix K of 10 CFR Part 50 (GBW/PAB)
 - 16.7) EPRI RETRAN-3D Thermal-Hydraulic Transient Analysis Code (GBW/PAB)

FRIDAY, JULY 16, 1999, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 17) 8:30 - 8:35 A.M. Opening Remarks by the ACRS Chairman (Open) (DAP/RPS)
- 18) 8:35 - 10:00 A.M. Highlights from Incident Reporting System (Closed) (MVB/MME)
- 18.1) Remarks by the Cognizant ACRS Member
 - 18.2) Briefing by and discussions with representatives of the NRC staff regarding highlights of events that occurred at foreign nuclear plants during 1997 and 1998 and associated safety significance.

[NOTE: This session will be closed to discuss information provided in confidence by a foreign source.]

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

- 19) 10:15 - 10:30 A.M. Future ACRS Activities (Open) (DAP/JTL/RPS)
 Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the full Committee during future meetings.
- 20) 10:30 - 10:45 A.M. Report of the Planning and Procedures Subcommittee (Open/Closed) (DAP/JTL)
 Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, and organizational and personnel matters relating to the ACRS.

[Note: A portion of this session may be closed to discuss organizational and personnel matters that relate solely to the internal personnel rules and practices of this Advisory Committee, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

- 21) 10:45 - 11:00 A.M. Reconciliation of ACRS Comments and Recommendations (Open)
(DAP, 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.
- 22) 11:00 - 12:00 Noon Discussion of Proposed ACRS Reports (Open)
Continue discussion of proposed ACRS reports on:
22.1) Control Room Habitability Issues (TSK/PAB/AS)
22.2) Proposed Revision 3 to Regulatory Guide 1.160 (JJB/AS)
22.3) Proposed Final Regulatory Guide for Updating FSARs (JJB/MTM)
22.4) Options for Crediting Existing Programs for License Renewal (RLS/NFD)
22.5) Proposed Revision to Appendix K of 10 CFR Part 50 (GBW/PAB)
22.6) EPRI RETRAN-3D Thermal-Hydraulic Transient Analysis Code (GBW/PAB)
22.7) Proposed Amendment to 10 CFR 50.55a (WJS/NFD)
- 12:00 - 1:00 P.M. *****LUNCH*****
- 23) 1:00 - 5:00 P.M.
(2:00-2:15 P.M. BREAK) Discussion of Proposed ACRS Reports (Open)
Continue discussion of proposed ACRS reports listed under Item 22.
- 24) 5:00 - 5:30 P.M. Miscellaneous (Open) (DAP/JTL/RPS)
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.
- Number of copies of the presentation materials to be provided to the ACRS - 35.

APPENDIX V
LIST OF DOCUMENTS PROVIDED TO THE COMMITTEE
463RD ACRS MEETING
JUNE 2-4, 1999

[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 Hydrogen Control Exemption Request for the San Onofre Nuclear Generating Station Units 2 and 3
 2. Request for Exemption from Hydrogen Control Requirements at San Onofre Nuclear Generating Station Units 2 and 3, presentation by Southern California Edison Company representatives [Viewgraphs]
 3. Southern California Edison Hydrogen Control Exemption Request, NRR staff presentation [Viewgraphs]

- 3 Status of the Pilot Application of the Revised Inspection and Assessment Programs
 4. Reactor Oversight Process Improvement, presentation by A. Madison [Viewgraphs]
 5. Significance Determination Process (SDP) Overview, presentation by M. Branch [Viewgraphs]
 6. Feasibility Review: Objective and Limitations [Viewgraphs]

- 4 Proposed Risk-Based Performance Indicators
 7. Risk-Based Performance Indicator Development Program, presentation by P. Baranowsky, S. Mays, T. Wolf, RES [Viewgraphs]

- 5 Performance-Based Regulatory Initiatives and Related Matters
 8. Performance-Based Approaches to Regulation, presentation by N. Prasad Kadambi, RES [Viewgraphs]

- 8 Use of Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses
 9. Treatment of Averted Onsite Costs and Treatment of Voluntary Initiatives in NRC Regulatory Analyses, presentation by S. Feld, RES [Viewgraphs]
 10. Use of Adverted Onsite Costs and Voluntary Initiatives in Regulatory Analyses [Handout #8-1]

- 9 Development of a Low-Power and Shutdown Risk Program
 11. Low Power and Shutdown Risk Research Program Status, presentation by M. Cunningham, RES [Viewgraphs]

- 10 Strategy for ACRS Review of License Renewal Activities
 12. ACRS License Renewal Review Process Major Activities, presentation by Dr. Mario Bonaca, ACRS Member [Viewgraphs]

- 11 Options for Crediting Existing Programs for License Renewal
 13. Letter dated May 4, 1999, from Ralph E. Beedle, NEI, to Shirley Ann Jackson, Chairman, NRC, Subject: NEI Position on How Existing Programs and Activities are Credited for License Renewal; Draft Commission Paper received June 2, 1999, from William D. Travers, EDO, to The Commissioners, Subject: Credit for Existing Programs for License Renewal [Handout #11-1]

- 12 Proposed Resolution of Generic Safety Issue (GSI)-165. "Spring-Actuated Safety and Relief Valve Reliability"
 14. Resolution of Generic Safety Issue 165 Spring-Operated Safety and Relief Valve Reliability, presentation by F. Cherny, O. Gormley, RES [Viewgraphs]

- 16 Perspective on Nuclear Safety and the Regulatory Process
 15. Lessons Learned at the Millstone Station, presentation by Dr. Mario Bonaca, ACRS Member [Viewgraphs]

- 17 Site Visit to the Susquehanna Steam Electric Station and Meeting with the NRC Region I Personnel
 16. Site Visit to the Susquehanna Steam Electric Station, presentation by A. Singh, Senior Staff Engineer, ACRS/ACNW [Viewgraphs]
 17. Comparison of Principal Design Features of Susquehanna and Similar Facilities, presentation by A. Singh, Senior Staff Engineer, ACRS/ACNW [Handout]

- 18 Future ACRS Activities
 18. Future ACRS Activities - 464th ACRS Meeting, July 14-16, 1999 [Handout #18-1]

- 19 Report of the Planning and Procedures Subcommittee
 19. Final Draft Minutes of Planning and Procedures Subcommittee Meeting - June 4, 1999 [Handout #19.1]

- 20 Reconciliation of ACRS Comments and Recommendations
 21. Reconciliation of ACRS Comments and Recommendations [Handout #20.1]

MEETING NOTEBOOK CONTENTS

TAB

DOCUMENTS

2 SCE Exemption Request from Hydrogen Control Requirements

1. Table of Contents
2. Project Status Report dated June 2, 1999
3. Memorandum to T. Kress from P. Boehmert, Subject: NRC Staff Meeting with Southern California Edison, Exemption Request from Hydrogen Control Requirements for SONGS, March 17, 1999, dated March 19, 1999
18. Letter to US NRC from D. Nunn, SCE, Subject: Request for Exemption to 10 CFR 50.44, 10 CFR 50, Appendix A, GDC 41, and 10 CFR 50, Appendix E, Section VI, dated September 10, 1998

3 Pilot Application of Revised Inspection and Assessment Program

19. Table of Contents
20. Project Status Report dated June 2, 1999
21. ACRS Report to S. Jackson, Chairman, from D. Powers, Chairman, ACRS, Subject: Proposed Improvements to the NRC Inspection and Assessment Program, dated February 23, 1999
22. Letter to D. Powers, Chairman, from W. Travers, EDO, Subject: Proposed Improvements to the NRC Inspection and Assessment Program, dated March 31, 1999
23. SRM, SECY-99-086, Recommendations Regarding the Senior Management Meeting Process and Ongoing Improvements to Existing Licensee Performance Assessment Processes, dated April 16, 1999
24. SECY-99-086, Recommendations Regarding the Senior Management Meeting Process and Ongoing Improvements to Existing Licensee Performance Assessment Processes, dated March 23, 1999

4 Proposed Risk-Based Performance Indicators

25. Table of Contents
26. Proposed Schedule
27. Status Report dated June 2, 1999
28. Draft paper entitled, "Development of Risk-Based Performance Indicators," by Patrick W. Baranowsky, Steven E. Mays, and Thomas R. Wolf, RES, NRC, received May 26, 1999

5 Performance-Based Regulatory Initiatives and Related Matters

29. Table of Contents
30. Proposed Schedule
31. Status Report dated June 2, 1999
32. Draft Memorandum dated May 12, 1999 from William D. Travers, EDO, to The Commissioners, Subject: Plans for Pursuing Performance-Based Initiatives

33. Memorandum dated February 11, 1999, from Annette L. Vietti-Cook, Secretary, NRC, from William D. Travers, EDO, Subject: Staff Requirements - SECY-98-132, Plans to Increase Performance-Based Approaches in Regulatory Activities
 34. Letter dated May 13, 1999, from Steven D. Floyd, NEI, to Charles E. Rossi, Subject: Public Comment on "Elements of an Approach to Performance-Based Regulatory Oversight, NUREG/CR-5392"
 35. Letter dated April 15, 1999, from Charles R. Jones, concerned citizen, to Ashok Thadani, director, RES, Subject: Comments on Performance-Based Approaches to Regulation
 36. Letter dated May 4, 1998, from L. Joseph Callan, EDO, to R. L. Seale, Chairman, ACRS, Subject: Plans to Increase Performance-Based Approaches in Regulatory Activities
 37. Letter dated April 19, 1998, from R. L. Seale, Chairman, ACRS, to L. Joseph Callan, EDO, Subject: Plans to Increase Performance-Based Approaches in Regulatory Activities
- 8 Use of Averted Onsite Costs and Voluntary Initiatives in Regulatory Analyses
38. Table of Contents
 39. Proposed Schedule
 40. Status Report dated June 3, 1999
 41. Letter dated November 12, 1992, from Paul Shewmon, Chairman, ACRS, to James M. Taylor, Executive Director for Operations, NRC, Subject: Revised Regulatory Analysis Guidance
 42. Memorandum dated May 21, 1999, from Jack E. Rosenthal, Office of Nuclear Regulatory Research, to John T. Larkins, Executive Director, ACRS, Subject: Information Paper Concerning Treatment of Averted Onsite Costs in Regulatory Analyses
 43. Draft Commission Paper received May 21, 1999, from William D. Travers, Executive Director for Operations, NRC, to The Commissioners, Subject: Treatment of Voluntary Initiatives in Regulatory Analyses
- 9 Development of a Low-Power and Shutdown Risk Program
44. Table of Contents
 45. Proposed Schedule
 46. Status Report dated June 3, 1999
 47. ACRS Report dated April 18, 1997
 48. ACRS Report dated September 10, 1997
 49. Staff Requirements Memorandum dated December 11, 1997
 50. Memorandum from M. Markley to J. Barton, dated May 24, 1999
 51. EDO Response dated May 28, 1997
- 10 Strategy for Review of License Renewal Activities
52. Table of Contents
 53. Proposed Schedule
 54. Status Report dated June 3, 1999

- 55. ACRS License Renewal Review Process [PREDECISIONAL]
 - 56. Checklist for Reviewing Safety Evaluation Reports Related to License Renewal Applications [PREDECISIONAL]
- 11 Options for Crediting Existing Programs for License Renewal
- 57. Table of Contents
 - 58. Proposed Schedule
 - 59. Status Report dated June 3, 1999
 - 60. Memorandum dated March 24, 1999, from William D. Travers, Executive Director for Operations, to Chairman Jackson and the Commissioners, Subject: Credit for Existing Programs for License Renewal
 - 61. US Nuclear Regulatory Commission 10 CFR Part 54 Statement of Considerations, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants," dated September 29, 1995
- 12 Resolution of Generic Safety Issue 165, "Spring-Actuated Safety and Relief Valve Reliability"
- 62. Table of Contents
 - 63. Proposed Schedule
 - 64. Status Report dated June 3, 1999
 - 65. Memorandum to John T. Larkins, Executive Director, ACRS, from John W. Craig, Director, Division of Regulatory Applications, Office of Nuclear Regulatory Research, Subject: Review of Generic Safety Issue 165, "Spring-Actuated Safety and Relief Valve Reliability," dated April 2, 1999