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MINUTES OF THE ACRS SUBCOMMITTEE MEETING OF
SYSTEMATIC EVALUATION PROGRAM SUBCOMMITTEE ON
SAN ONOFRE
JUNE 19, 1985
WASHINGTON, DC

A meeting was held by the ACRS Systematic Evaluation Program Subcommittee on San Onofre. The purpose of the meeting was to review the Integrated Plant Safety Analysis Report on San Onofre. Notice of the meeting was published in the Federal Register on Friday, May 31, 1985 (Attachment A). The schedule of items covered in the meeting is in Attachment B. The list of attendees is in Attachment C. A list of handouts is in Attachment D. The handouts are filed with the office copy of this summary/minutes. H. Alderman was the ACRS staff member for this meeting. Chairman C. Siess convened the meeting at 8:30 A.M.

PRINCIPAL ATTENDEES:

ACRS Members

C. P. Siess, Chairman
D. A. Ward
C. J. Wylie

NRC Staff

C. Grimes
E. McKenna
W. Paulson
R. Dudley
T. Cheng

Southern California
Edison

M. Medford
K. Baskin
J. Rainsberry
M. Short
J. Hammond

San Diego Gas
and Electric

T. Phillips

ACRS Staff

H. Alderman

C. Grimes, Chief, Systematic Evaluation Program Branch

Mr. Grimes noted that the seismic issue has two components: the return to service plan that allowed restart of the reactor, and the long-term service plan to resolve long term items.

M. Medford, Southern California Edison

Mr. Medford gave a brief description of the Plant. The licensed thermal power rating is 1347 Mwt. The approximate electrical capacity is 450 MWe. The Plant is a three-loop, Westinghouse NSS. The architect-engineer was the Bechtel Corporation. The fuel is stainless steel clad. There are two major, unique design features. The safety injection system involves a transfer of the feed

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system from the feed function to the safety injection function. The second unique design difference is that there are no main steam stop valves. In 1976 the diesel generators were installed. They have an actual capacity of about 9 megawatts, although the Plant relies on 6 megawatts. At the same outage the sphere enclosure project was completed. The objective was to reduce "shine" to the exclusion area.

E. McKenna, Integrated Assessment Project Manager, San Onofre, OVERVIEW

Ms. McKenna noted that of the 137 topics considered for San Onofre, 24 topics were deleted on a generic basis, 24 topics were deleted on a plant-specific basis, so that a total of 89 topics were considered. During the review 53 topics were found to be acceptable, which left 36 to be addressed in the integrated assessment. The 36 topics included 86 issues. Of the 86 issues, 41 issues were determined to require no further action; 5 issues required hardware modifications; 12 issues required procedural or Technical Specification changes; and 26 issues required further evaluation. The seismic issue is listed under further evaluation.

E. McKenna, Integrated Assessment Project Manager, San Onofre, PROBABILISTIC RISK ASSESSMENT

Mr. Grimes pointed out that San Onofre did not have a plant-specific PRA, and a surrogate PRA (Surry) was used. M. Rubin pointed out that one area where the PRA technique was used was the switchover from the injection mode to recirculation mode. The switchover is manual. The concern of failure to switchover at the proper time could cause pump cavitations. Based on PRA techniques, the Staff rate this issue as a high risk.

Ms. McKenna remarked that inadvertent tsunami gate closure was determined to have low risk significance. Nevertheless, the tsunami gates were removed since other studies had shown they were not needed.

T. Cheng, SEP Program, STATUS REPORT ON THE SEISMIC UPGRADE

Mr. Cheng pointed out that, as a result of the Staff's review of the Unit 1 return to service program, the Staff is assured that the Plant has the capability to maintain its hot standby condition following a 0.67g earthquake. This conclusion was reached based upon an audit review and confirmatory analysis for selected piping and equipment systems.

On March 12, 1985 the Licensee proposed its long-term service program and the criteria, methods, and analysis to be used. This program will assure that the Plant will possess the capability for cold shutdown and accident mitigation.

The Staff's review will concentrate on the acceptability of the proposed reevaluation criteria and analysis method. In addition, the Staff will conduct an audit review and will perform a confirmatory analysis by sampling on a selected basis.

E. McKenna, Integrated Assessment Project Manager, San Onofre, OPEN ISSUES

Ms. McKenna discussed the switchover from the injection mode to the recirculation mode. She noted that the feedwater pumps are used in conjunction with the charging pumps during the initial phase of injection. The feedwater pumps are 10,000 gpm per pump. At about the 21% level in the refueling water storage tank, an alarm sounds. The operator has to trip the feedwater pumps and realign valves to take suction from the sump in about 3 minutes.

The Staff's concern is that the time is not adequate and if the switchover is not accomplished in time, loss of NPSH and cavitation in the charging pumps could damage the pumps. The Staff proposes an automatic trip of the feedwater pumps. The Licensee's position is that their operators can realign the valves in this time. The Licensee also stated that they would like to see if there are any possible detrimental effects of automatic feedwater pump trip.

Ms. McKenna pointed out that tornado missile protection was another area of disagreement. The basic disagreement involves what is the appropriate hazard function for the Plant. The Staff and the Licensee have both performed

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calculations of the hazard function and these calculations do not agree. Dr. Siess pointed out that resolution of the discrepancies in these calculations did not fall within the scope of the SEP Subcommittee.

E. McKenna, ISSUES REQUIRING FURTHER EVALUATION

Two issues that Ms. McKenna noted were:

- ° Roof ponding; the capability of the loops to take the ponding load. The Licensee has done an analysis which concludes the roofs are capable of withstanding the load. The Staff is reviewing this analysis.
- ° Foundation settlement. This involves long-term settlement. The Corps of Engineers will do some more site studies. This report is expected to resolve this issue.

E. McKenna, HARDWARE MODIFICATIONS

The most significant items under this category were:

- ° Adding an additional motor-driven, auxiliary feedwater pump. This, added to the present turbine-driven and motor-driven auxiliary feedwater pumps, will add to the reliability of the auxiliary feedwater system.
- ° Dedicating a diesel generator for shutdown systems will provide capability for plant shutdown independent of certain fire areas.

The Subcommittee meeting was adjourned at 2:00 P.M.

NOTE: A complete transcript of the meeting is on file at the NRC Public Document Room at 1717 H St., NW., Washington, D.C. or can be obtained at cost from Ann Riley & Associates, 1625 I St., N.W., Suite 921, Washington, D. C. 20006, Phone: (202) 293-3950

The agenda for subject meeting shall be as follows:

Tuesday, June 18, 1985—1:00 p.m. until the conclusion of business

The Subcommittees will explore the use of natural aptitude selection procedures, tests, and evaluations.

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. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

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

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. John Schiffgens or Mr. Herman Alderman (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EDT. Persons planning to attend this meeting are urged to contact the above named individual one or two days before the scheduled meeting to be advised of any changes in schedule, etc., which may have occurred.

Dated: May 23, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-13098 Filed 5-30-85; 8:45 am]

BILLING CODE 7540-01-M

Advisory Committee on Reactor Safeguards, Subcommittee on Maintenance Practices and Procedures; Meeting

The ACRS Subcommittee on Maintenance and Procedures will hold a

meeting on June 18, Room 1046, 1717 H Street, NW, Washington, DC.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Tuesday, June 18, 1985—8:30 a.m. until the conclusion of business

The Subcommittee will review the maintenance and surveillance program plan.

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. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

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Dated: May 23, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-13099, Filed 5-30-85; 8:45 am]

BILLING CODE 7540-50-M

Advisory Committee on Reactor Safeguards Subcommittee on Systematic Evaluation Program (San Onofre); Meeting

The ACRS Subcommittee on Systematic Evaluation Program (San Onofre) will hold a meeting on June 19, 1985, Room 1046, 1717 H Street, NW, Washington, DC.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Wednesday, June 19, 1985—8:30 a.m. until the conclusion of business

The Subcommittee will review the Integrated Plant Safety Analysis Report (IPSAR) for San Onofre Unit 1.

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. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

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

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. Herman Alderman (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EDT. Persons planning to attend this meeting are urged to contact the above named individual one or two days before the scheduled meeting to be advised of any changes in schedules, etc., which may have occurred.

TENTATIVE MEETING SCHEDULE ACRS SEP
SUBCOMMITTEE MEETING
SAN ONOFRE NUCLEAR GENERATING STATION UNIT 1
June 19, 1985

8:30 a.m. Introduction (C. Grimes, NRC)

8:45 a.m. Integrated Assessment Summary (E. McKenna, NRC)

- SEP Topics Deleted
- Topics That Meet or are Equivalent to Current Criteria
- Issues Differing from Current Criteria

10:00 a.m. Application of PRA (B. Atefi, SAI/M. Rubin, NRC)

10:45 a.m. ***** BREAK *****

10:55 a.m. Status Report on Seismic Upgrade (T. Cheng, NRC)

12:00 NOON ***** LUNCH *****

1:00 p.m. Issues Requiring Procedural or Tech. Spec. Changes (E. McKenna)

2:00 p.m. Issues Requiring Further Evaluation (E. McKenna)

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

3:10 p.m. Issue Requiring Hardware Backfits (E. McKenna)

4:00 p.m. Issues Requiring Additional Engineering Evaluation (E. McKenna)

4:30 p.m. Conclusions

5:00 p.m. ADJOURN

AGERS SUBCOMMITTEE MEETING ON SYSTEMATIC EVALUATION PROGRAM (SAN ONOFRE)

LOCATION: ROOM 1046

DATE: JUNE 19, 1985

ATTACHMENT

ATTENDANCE LIST

PLEASE PRINT:

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ACRS SUBCOMMITTEE MEETING ON [REDACTED]

LOCATION: Room 1046, 8:30 A.M.

DATE: JUNE 10¹⁹ 1985

ATTENDANCE LIST

PLEASE PRINT:

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ATTENDANCE LIST

SYSTEMATIC EVALUATION PROGRAM

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LIST OF HANDOUTS:

1. SEP Integrated Assessment - E. McKenna
2. San Onofre Seismic Revaluation - T. Cheng