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NOTE: REVISED BY ADDITION OF LIST TO SUPPLEMENT AGENDA.

Memo 1

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket Nos. 50-275
and 50-323

MAY 13 1975

Olan D. Parr, Chief, Light Water Reactors Project Branch 1-3, DRL

FORTHCOMING ACRS SUBCOMMITTEE MEETING - DIABLO CANYON NUCLEAR POWER STATION, UNITS 1 AND 2 (OL)

Date and Time: Friday, May 23, 1975 - 9:00 A. M.

Location: Dickens Ballroom
Sheraton Airport Inn
9750 Airport Boulevard
Los Angeles, California 90045

Purpose: ACRS Subcommittee review of the Diablo Canyon Nuclear Power Station (see attached agenda).

Participants:

ACRS SUBCOMMITTEE
(Dr. D. Okrent, Dr. W. Kerr, Dr. W. Stratton)

ACRS CONSULTANTS
(Dr. S. Seigel, Dr. M. Plasette, Dr. I. Catton, J. Ebersol)

ACRS STAFF
(J. Conran)

PACIFIC GAS AND ELECTRIC COMPANY
(W. J. Lindblad, J. B. Hoch)

WESTINGHOUSE
(J. W. Dorrycott, D. Peacock)

NOTE: REVISED BY ADDITION OF LIST TO SUPPLEMENT AGENDA.

AMERICAN REVOLUTION BICENTENNIAL 1776-1976

MAY 1 3 1975



NRC - STAFF
(O. D. Parr, T. J. Hirons, D. P. Allison)

Dennis P. Allison

Dennis P. Allison
Light Water Reactors
Project Branch 1-3
Division of Reactor Licensing

Enclosure:
Agenda

cc w/encl:
Mr. John C. Morrissey
Philip A. Crane, Jr., Esq.
Andrew J. Skaff, Esq.
Mr. Frederick Eissler
Ms. Elizabeth E. Apfelberg
Ms. Sandra A. Silver
Mr. John Forster
Mr. William P. Cornwell
Mr. W. J. Lindblad
Mr. T. J. Hirons
Mr. J. W. Dorrycott
Mr. D. Peacock

- DETAILED AGENDA -

DIABLO CANYON SUBCOMMITTEE MEETING
MAY 23, 1975 - LOS ANGELES, CALIFORNIA

Principal Spokesmen: PG&E - William Lindblad, Project Engineer
DRL - Dennis Allison, Project Manager

(30 min) I. Project Review Summary and Status Report (DRL)

A. Update on Unresolved/Outstanding Items

B. Resolution/Status of ACRS CP Letter Items

(30 min) II. Site Characteristics

A. Tornado Characteristics/Criteria

1. PG&E Presentation (PG&E)
2. Conformance to Current Criteria (DRL)
3. Systems for Safe Shutdown Weakly Protected (PG&E)

B. Other Site Characteristics (PG&E)

1. Meteorology, Hydrology, Demography

(4 hrs) III. Systems Interactions (PG&E/W/DRL)

A. Questions raised at Subcommittee meeting of 2/18/75 and 2/19/75.

B. Water Hammer/Slug Flow/Chugging/Percolation Effects (W)

1. Similarities between Diablo & Indian Point-2/San Onofre

2. WCAP-7832 Analyses

C. Design for Fire Protection (PG&E/DRL)

(45 min) IV. Reactor

A. Brief Description of Major Features/ Comparison with Existing Designs (PG&E)

B. ECCS/LOCA - Appendix K Evaluations

1. Unit 1/Unit 2 Results - Comparison with Existing Designs (PG&E/W)
2. Limiting $F_Q^T$ Calculated for Unit 1/ Unit 2
3. Status/Schedule for Completion (PG&E/DRL)

C. Pwr. Distr. Control Method - Excore/ APDMS/COAC (PG&E/DRL/W)

D. Significant Changes in Design Since CP Stage (PG&E)

E. Status of 17 x 17 Design Verification/ Review (W/DRL)

(15 min) F. Augmented Startup Program Proposal (W/PG&E)

V. Plant Items (PG&E)

A. Brief Description of Plant Arrangement

B. Major Design Changes Since CP Stage

C. Other Lessons Learned from Operating Experience and Related Design Changes

VI. Other

Additional specific items may be discussed at the discretion of the Subcommittee Chairman

(15 min) VII. Industrial Security (CLOSED SESSION) (PG&E)

ADDITIONAL QUESTIONS - AGENDA ITEM III A

DIABLO CANYON SUBCOMMITTEE MEETING

MAY 23, 1975 - LOS ANGELES, CALIFORNIA

| QUESTION # | ADDRESSED TO | TRANSCRIPT PAGE # | DRL MEETING SUMMARY PAGE # | TOPIC |
|---|---|---|---|---|
| 1. | PG&E/DRL | 237<br>238<br>243 | 14-#1 | Effects of turbine building fires - possible common mode failure mechanism |
| 2. | PG&E | 243-248 | 14-#2 | Effects of failure of redundant safety-related services (not ESF) in a situation (not LOCA) requiring shutdown |
| 3. | DRL | 248-250 | 15-#3 | Status of review of analysis of effects of prolonged AC power loss |
| 4. | PG&E/DRL | 251-262<br>289 | 15-#4 | Heat transfer during small LOCA |
| 5. | PG&E/DRL | 275-283 | 16-#1 | Effects of phosphate buildup on valve closure |
| 6. | DRL | 283-284 | 17-#2 | Steam Generator design envelope (LOCA reaction forces, jet forces, seismic loading) |
| 7. | PG&E | 287 | 17-#4 | Control Room environment/hazards during seismic event - seismic vulnerability of fluorescent lighting |
| 8. | DRL | 314-315 | - | Number of emergency diesel generators required for shutdown under various conditions |
| 9. | PG&E/DRL | 315-318<br>326-327 | 18 | Reliability of AC/DC electric power systems |

| QUESTION # | ADDRESSED TO | TRANSCRIPT PAGE # | DRL MEETING SUMMARY PAGE # | TOPIC |
|---|---|---|---|---|
| 10. | PG&E/DRL | 319-320 | | Possible effects due to load shedding and/or sequential loading of emergency diesel generators not being accomplished as planned/expected. |
| 11. | PG&E | 320 | - | Hammer blow required/available when needed to begin isolation valve movement. |
| 12. | DRL | 328-331 | 19 | Effects of failure/malfunction in diesel fuel oil system |
| 13. | PG&E | 334 | | Distances/barriers/times involved in operating locked-out ESF valves. |
| 14. | PG&E | 354-355 | 20-#2 | Degree of compliance with 1974 ASME Section XI<br>Differences between 1971/1972/1974 versions |
| 15. | PG&E/DRL | 355-359 | 20-#3 | Possible safety-related effects of failure of non-safety-related and/or non-seismic Cat. I electrical systems |
| 16. | PG&E | 340-341 | - | Question concerning self-destructing valve |
| 17. | PG&E/DRL | 360-372 | 21 | Required instrumentation/procedures for satisfactorily diagnosing the severity and course of an accident |
| 18. | DRL | 370-378 | 22-#6 | Similarities/differences between Diablo and San Onofre/Indian Point-2 designs as pertinent to problems experienced in those other plants (e.g. waterhammer/feedwater line rupture/ containment lines bulge) |
| 19. | W/DRL | 378-379 | 22-#7 | Slug flow and/or water hammer effects for a LOCA downstream of S. G. - W treatment/DRL review |
| 20. | DRL | 380 | 22-#8 | Review of insulation used and possible effect on containment sump. |