Docket Nos.: 50-361/362

APPLICANTS: SOUTHERN CALIFORNIA EDISON COMPANY (SCE)

SAN DIEGO GAS ELECTRIC COMPANY (SDG&E)

FACILITY:

SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 2 AND 3

SUBJECT:

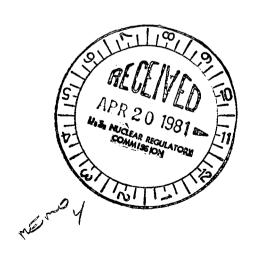
SUMMARY OF GENERIC MEETING ON EMERGENCY PROCEDURE GUIDELINES

On January 30, 1981, a meeting was held in Bethesda with the Combustion Engineering Owners Group to discuss emergency procedure guidelines for CE plants. At the meeting it was agreed that the San Onofre 2 and 3 inadequate core cooling procedure would be reviewed by the NRC staff Reactor Systems Branch in lieu of CE guidelines. A summary of the meeting is enclosed.

Harry Rood, Project Manager Licensing Branch #3 Division of Licensing

Enclosure:
As stated

cc: See next page.



	H 8.	105050				
OFFICE	DL:LB#3	DIA BA3				
DATE	4/13/81	4/ 13 /81	,			
			 	• • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	[······

つのろ

MEETING SUMMARY DISTRIBUTION

Docket File NRC PDR Local PDR TIC/NSIC/Tera

LB#3 Reading

- E. Case
- D. Eisenhut
- R. Purple
- 1B. J. Youngblood
- A. Schwencer
- F. Miraglia
- J. Miller
- G. Lainas
- R. Vollmer
- J. P. Knight
- R. Bosnak
- F. Schauer
- R. E. Jackson Project Manager

Harry Rood

Attorney, OELD

J. Lee

01E (3)

ACRS (16)

R. Tedesco

NRC Participants:

bcc: Applicant & Service List

G. Lear

V. Noonan

S. Pawlicki

V. Benaroya

Z. Rosztoczy

W. Haass

D. Buller

R. Ballard

W. Regan

D. Ross

P. Check

R. Satterfield

0. Parr

F. Rosa

W. Butler

W. Kreger

R. Houston

T. Murphy

L. Rubenstein

T. Speis

W. Johnston

J. Stolz

S. Hanauer

W. Cammill

T. Murley

F. Schröeder

D. Skovholt

M. Ernst

R. Baer

C. Berlinger

K. Kniel

G. Knighton

A. Thadani

D. Tondi

J. Kramer

D. Vassallo

P. Collins

D. Ziemann



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

APR 1 4 1981

Docket Nos.: 50-361/362

APPLICANTS:

SOUTHERN CALIFORNIA EDISON COMPANY (SCE)

SAN DIEGO GAS ELECTRIC COMPANY (SDG&E)

FACILITY:

SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 2 AND 3

SUBJECT:

SUMMARY OF GENERIC MEETING ON EMERGENCY PROCEDURE GUIDELINES

On January 30, 1981, a meeting was held in Bethesda with the Combustion Engineering Owners Group to discuss emergency procedure guidelines for CE plants. At the meeting it was agreed that the San Onofre 2 and 3 inadequate core cooling procedure would be reviewed by the NRC staff Reactor Systems Branch in lieu of CE guidelines. A summary of the meeting is enclosed.

> Harry Rood, Project Manager Licensing Branch #3 Division of Licensing

Enclosure: As stated

cc: See next page.



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

FEB 1 : 1901

T. P. Speis, Chief, Reactor Systems Branch, DSI MEMORANDUM FOR:

FROM:

Mark P. Rubin, Reactor Systems Branch, DSI

THRU:

Bi Sheron, Section A Leader, Reactor Systems Branch, DSI

SUBJECT:

SUMMARY OF JANUARY 30 MEETING WITH COMBUSTION ENGINEERING

TO DISCUSS EMERGENCY PROCEDURE GUIDELINES

On January 30, 1981, representatives of the NRC staff met with representatives of Combustion Engineering and the Combustion Engineering Owners Group to discuss the content and schedule for submittal of emergency procedure guidelines per the requirements of I.C.1 in NUREG-0737. In summary, the CE Owners Group stated that they plan to submit their emergency guidelines in June, 1981. The meeting attendees are listed in Enclosure (1) and the summary of the meeting is presented in Enclosure (2).

> Mark P. Rubin, Section A Reactor Systems Branch

Division of Systems Integration

Enclosures: As stated

J. Guttmann cc:

D. Ross

B. Sheron

P. Check

M. Rubin

G. Mazetis

M. Goodman

V. Panciera

R. Urban

W. Johnston

W. Kennedy

L. Phillips H. Rood 🗸

J. Clifford S. Hanauer

J. Kramer

J. Engelschall

D. Beckham

D. Ziemann

JANUARY 30, 1981 ATTENDANCE LIST (CE GUIDELINES)

Jack Guttmann Brian Sheron Mark Rubin Mike Goodman Rick Urban W. G. Kennedy J. W. Clifford K. R. Iyengar Joe Gasper Bill Burchill Vince Callaghan Chuck Kling Dan Williams James Westhoven Steve Hanauer Joel Kramer Julia Ann Engelschall Don Beckham	NRC/RSB NRC/RSB NRC/PTRB NRC/PTRB NRC/PTRB NRC/PTRB MSS/LP&L Omaha Public Power District CE CE CE CE CE NRC/DHFS NRC/DHFS NRC/DHFS Xyzyx (NRC) NRC/PTRB

I.C.1 RESPONSE SCHEDULE

6/1/81

CEOG SUBMITS TO NRC REVISED

EPGs

12/1/81

NRC COMPLETES REVIEW OF REVISED

EPGs

AFTER 6/1/82

PLANT PROCEDURES REVISED AT

FIRST REFUELING OUTAGE

10/82

WATERFORD (LP&L) FUEL LOAD

11/82

PALO VERDE 1 (APS) FUEL LOAD

11/82

ST. LUCIE 2 (FP&L) FUEL LOAD

MEETING SUMMARY

On January 30, 1981, representatives of the NRC staff met with Combustion Engineering personnel and members of their owners group to discuss the technical scope and submittal schedule of emergency procedure guidelines required by TMI Action Plan Item 1.C.1, and originally scheduled for submittal on or before January 1981. Combustion Engineering stated they could not meet this schedule, and requested the meeting to provide the staff with their proposed submittal schedule, as well as some details of the methodology they are using in the program.

The detailed accident and transient guidelines called for in TMI action item 1.C.l are to consider multiple and consequential failures of equipment as well as possible operator errors. CE explained that the guidelines presently being developed were derived from interim guidelines previously submitted to the staff in CEN 128 in response to NUREG-0578 requirements.

The representatives from CE began the meeting with a chronology and background on the CEN 128 work, indicating that they felt it has resulted in a significant improvement over earlier procedures, and is currently being utilized in plant training programs. However, significant modifications to the current guidelines are still considered by CE as necessary to; enhance diagnostic capability, assist operator response, and cover contingencies.

CE discussed their approach to develop the new guidelines. They are currently performing a systematic evaluation of a limited set of event initiators, in an attempt to identify limiting or bounding initiator events which can be used to generate the symptom-activated lead-in for the new guidelines. There was some concern among the staff that this limited set of events would not be comprehensive enough. Currently the only event initiators being addressed by the CE study are:

- loss of normal feedwater;

- excess feedwater
- loss of normal AC power
- steamline break, outside containment
- steam generator tube rupture
- small RCS pipe break, inside containment.

The staff informed CE that they would review the selected events when submitted, and would determine if all credible initiator events had been considered.

The basic methodology for conducting the event analysis was also discussed. It includes fault tree analyses, definition of sets of failures which threaten safety functions and evaluation of probability for each set. Event tree analyses are being used to evaluate probabilities of event failure combinations, and assess consequences of failure combinations that fall within probability cutoffs. Sequence of events diagrams are also being used to identify safety functions required, identify manual and automatic actions, and identify alternative success paths. CE indicated that workshop sessions are being held with personnel from utilities with CE designed reactors to help identify credible event sequences and potential equipment failures.

Combustion presented a draft schedule for submittal of guidelines (Attachment #3). Dr. Hanauer of the staff expressed concern over this schedule, indicating that it might result in difficulties meeting the review schedule for the next CE plants coming up for operating license review. Discussion did not resolve these concerns, and the issue remains open. The staff will take the proposed CE schedule for meeting the requirements of TMI action item 1.C.1 under consideration.

At the conclusion of the meeting, discussions were held regarding the interim emergency procedure guidelines being reviewed in support of the San Onofre operating license review. Problems with the ICC guideline were discussed and CE indicated modifications could not be accomplished in time to accommodate the San Onofre review. It was proposed by the staff that the San Onofre plant-specific ICC procedure be reviewed by the Reactor Systems Branch in lieu of vendor guidelines. The staff and Combustion have both agreed to this approach. CE also submitted final responses to staff questions on the interim guidelines for Loss of Feedwater and steam generator tube rupture events. This material will be reviewed by the staff as part of the San Onofre review.

The meeting was adjourned at approximately 4:00PM.

Mr. Robert Dietch Vice President Southern California Edison Company 2244 Walnut Grove Avenue P. O. Box 800 Rosemead, California 91770

Mr. D. W. Gilman Vice President - Power Supply San Diego Gas & Electric Company 101 Ash Street P. O. Box 1831 San Diego, California 92112

cc: Charles R. Kocher, Esq.
James A. Beoletto, Esq.
Southern California Edison Company
2244 Walnut Grove Avenue
P. O. Box 800
Rosemead, California 91770

Chickering & Gregory
ATTN: David R. Pigott, Esq.
Counsel for San Diego Gas & Electric Company &
Southern California Edison Company
3 Embarcadero Center - 23rd Floor
San Francisco, California 94112

Mr. George Caravalho City Manager City of San Clemente 100 Avenido Presidio San Clemente, California 92672

Alan R. Watts, Esq. Rourke & Woodruff Suite 1020 1055 North Main Street Santa Ana, California 92701

Lawrence Q. Garcia, Esq. California Public Utilities Commission 5066 State Building San Francisco, California 94102

Mr. V. C. Hall Combustion Engineering, Incorporated 1000 Prospect Hill Road Windsor, Connecticut 06095 cc: Mr. P. Dragolovich
Bechtel Power Corporation
P. O. Box 60860, Terminal Annex
Los Angeles, California 90060

Mr. Mark Medford Southern California Edison Company 2244 Walnut Grove Avenue P. O. Box 800 Rosemead, California 91770

Henry Peters San Diego Gas & Electric Company P. O. Box 1831 San Diego, California 92112

Ms. Lyn Harris Hicks Advocate for GUARD 3908 Calle Ariana San Clemente, California 92672

Richard J. Wharton, Esq. Wharton & Pogalies University of San Diego School of Law Environmental Law Clinic San Diego, California 92110

Phyllis M. Gallagher, Esq. Suite 222 1695 West Crescent Avenue Anaheim, California 92701

Mr. A. S. Carstens 2071 Caminito Circulo Norte Mt. La Jolla, California 92037

Resident Inspector, San Onofre/NPS c/o U. S. Nuclear Regulatory Commission P. O. Box AA Oceanside, California 92054 Mr. Robert Dietch Mr. D. W. Gilman

cc: California Department of Health
ATTN: Chief, Environmental Radiation
Control Unit
Radiological Health Section
714 P Street, Room 498
Sacramento, California 95814

Director
Energy Facilities Siting Division
Energy Resources Conservation &
Development Commission
1111 Howe Avenue
Sacramento, California 95825

Chairman, Board of Supervisors San Diego County San Diego, California 92412

Mayor, City of San Clemente San Clemente, California 92672

U. S. Environmental Protection Agency ATTN: EIS Coordinator Region IX Office 215 Freemont Street San Francisco, California 94111

Energy Resources Conservation & Development Commission ATTN: Librarian 111 Howe Avenue Sacramento, California 95825