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Docket Nos. 50-361  
and 50-362

MEMORANDUM FOR: Wm. H. Regan, Jr., Chief  
Environmental Projects Branch 2

FROM: O.D.T. Lynch, Jr., Sr. Project Manager  
Environmental Projects Branch 2

SUBJECT: REPORT ON MEETING WITH SOUTHERN CALIFORNIA EDISON  
COMPANY REPRESENTATIVES REGARDING PREOPERATIONAL  
MONITORING PROGRAM, SAN ONOFRE NUCLEAR GENERATING  
STATION, UNIT NOS. 2 AND 3

The NRC staff met with representatives of Southern California Edison Company regarding the preoperational environmental monitoring program proposed for the San Onofre Nuclear Generating Station, Unit Nos. 2 and 3. The meeting was held at the NRC offices in Bethesda, Maryland on Friday, April 14, 1978. Staff comments on the proposed program were discussed with the applicant. The applicant indicated he would include the staff's suggestions in the preoperational program and submit the program for staff approval in the near future. It is expected the program will be submitted in the month of June, 1978.

A list of attendees is provided as Attachment 1.

Original signed by  
O. D. T. Lynch, Jr.

O.D.T. Lynch, Jr., Sr. Project Manager  
Environmental Projects Branch 2  
Division of Site Safety and  
Environmental Analysis

Enclosure:  
List of Attendees

Drep 2 60

OFFICE	DSE:EP-2					
SURNAME	OLynch:dm					
DATE	6/12/78					

ATTACHMENT 1

SAN ONOFRE NUCLEAR GENERATING STATION

UNIT NOS. 2 AND 3

PREOPERATIONAL ENVIRONMENTAL MONITORING

PROGRAM MEETING

APRIL 14, 1978

LIST OF ATTENDEES

Southern California Edison Company

Dennis L. Cox  
A. R. Strachan  
G. L. Richardson

U. S. Nuclear Regulatory Commission

O. D. T. Lynch, Jr.  
R. R. Romano

MAY 12 1978

FOR DISTRIBUTION, SEE ATTACHED  
SHEET.

Docket Nos. 50-361  
and 50-362

MEMORANDUM FOR: Wm. H. Regan, Jr., Chief  
Environmental Projects Branch 2, DSE

FROM: O.D.T. Lynch, Jr., Sr. Project Manager  
Environmental Projects Branch 2, DSE

SUBJECT: REPORT ON MEETING WITH REPRESENTATIVES OF SOUTHERN  
CALIFORNIA EDISON ON SAN ONOFRE NUCLEAR GENERATING  
STATION, UNIT NOS. 2 AND 3 - THERMAL HYDROLOGY MODEL

A meeting was held on May 5, 1978, at the NRC offices in Bethesda, Maryland, between the NRC staff and representatives of Southern California Edison (SCE). The purpose of the meeting was to discuss the thermal hydrology model being used by the NRC staff to assess the thermal plumes of San Onofre Nuclear Generating Station, Unit Nos. 2 and 3 (SONGS 2&3).

A List of Attendees is provided as Enclosure 1. A brief summary of the meeting follows:

Professor Arsev H. Eraslan, University of Tennessee, provided a thorough description of the modified FAROUT thermal hydrology model being used by the staff to evaluate the SONGS 2&3 thermal discharge plumes.

Dr. Alan Witten, ORNL, indicated the details used in the model specific to SONGS 2&3 and provided the results of the latest analysis. Upon examination of the model's synthesis of ambient conditions, it was noted by the applicant that the surface temperatures used in the calculation were higher than any actually observed on the California coast in the last 50 years. These higher temperatures appeared in the calculation because no drift was utilized. The applicant indicated that there is a definite drift along the California coast. The use of drift in the calculation would remove heat from the area of concern. If the drift were sufficient, it is possible that the thermal plumes computed for SONGS 2&3 would be acceptable.

The applicant agreed to provide drift data sufficient for the staff to develop a characteristic drift rate for use in the model. The applicant will inform the staff when this information would be available. When the drift information is received, ORNL will redo the calculations to determine the net effect of drift on the plumes. The results will be reported to the NRC staff and be forwarded to the applicant.

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DATE >	5/12/78					

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MAY 12 1978

Wm. H. Regan, Jr.

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The applicant will also provide comments on the modified FAROUT model used by ORNL.

Original signed by  
O. D. T. Lynch, Jr.

O.D.T. Lynch, Jr., Sr. Project Manager  
Environmental Projects Branch 2  
Division of Site Safety and  
Environmental Analysis

Enclosure:  
List of Attendees

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DATE						

ENCLOSURE 1

SAN ONOFRE NUCLEAR GENERATING STATION

Southern California Edison Company

Dennis L. Cox  
Ralph A. De La Parra  
Robert S. Grove

Massachusetts Institute of Technology

D. R. F. Harleman

Oak Ridge National Laboratory

Alan Witten  
Richard M. Rush  
Arsev H. Eraslan

Nuclear Regulatory Commission

O. D. T. Lynch, Jr.  
Gary B. Staley  
Edward F. Hawkins  
Voss A. Moore  
Richard Codell  
Henry J. McGurren  
William S. Bivins  
Lewis G. Hulman

Representing Self

E. J. List  
Robert C. Koh

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MAY 5 1978

Docket Nos. 50-275

50-323

362

MEMORANDUM FOR: D. Vassallo, Assistant Director  
for Light Water Reactors, DPM

FROM: R. Tedesco, Assistant Director  
for Plant Systems, DSS

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON ENVIRONMENTAL  
QUALIFICATION FOR A MAIN STEAM LINE BREAK INSIDE  
CONTAINMENT FOR SAN ONOFRE UNITS 2 AND 3

Plant Name: San Onofre, Units 2 and 3

Docket Numbers: 50-361/362

Licensing Stage: OL

NSSS Supplier: Combustion Engineering Corporation

Architect Engineer: Bechtel

Containment Type: Dry

Responsible Branch: LWR-2

Project Manager: H. Rood

Requested Completion Date: N/A

Applicant's Response Date: N/A

Review Status: Incomplete

The Containment Systems Branch has reviewed the information provided in a response to question 022.18 for the San Onofre nuclear plant regarding the analysis of postulated main steam line break accidents and the environmental qualification of safety related equipment. As a result we find that there is a need for additional information concerning qualification of essential safety related equipment required for a MSLB accident.

The San Onofre plant is being reviewed on an interim basis pending completion of generic Safety Activity Task A-21 regarding environmental qualification for a MSLB accident inside containment. Our review has identified the need for information in the following areas:

- (1) Clarification regarding the evaluation of single active failures and containment spray initiation time.
- (2) Justification of component heat transfer assumptions.

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