

DOD-016

July 15, 1982

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Docket No. 50-312

Mr. J. J. Mattimoe
 Assistant General Manager and
 Chief Engineer
 Sacramento Municipal Utility
 District
 6201 S Street
 P. O. Box 15830
 Sacramento, California 95813

Dear Mr. Mattimoe:

SUBJECT: ACTION PLAN ITEM II.K.3.17, REPORT ON OUTAGES OF ECCS
 SYSTEMS REQUEST FOR ADDITIONAL INFORMATION

We have completed a preliminary review of your submittal regarding TMI Action Plan Item II.K.3.17, Report on Outages of ECCS Systems. The additional information identified in the enclosure is required by our contractor, Franklin Research Center, to complete our review for your facility. If the exact information requested is not available from plant records, a best estimate should be provided. Please supply this information within 30 days of the date of receipt of this letter. If you are unable to meet this date, please notify us as soon as possible.

The reporting and/or recordkeeping requirements contained in this letter are approved under OMB Clearance No. 3150-0065, which expires May 31, 1983.

Sincerely,

Original Signed By:

John F. Stoiz, Chief
 Operating Reactors Branch #4
 Division of Licensing

Enclosure:
 Request for Additional
 Information

cc w/enclosure:

See next page

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OFFICE	UKB#4:DL	UKB#2:DL	R&RAB	C-ORB#4:DL		
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cc w/enclosure(s):

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Sacramento Municipal Utility
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Sacramento, California 95814

REQUEST FOR ADDITIONAL INFORMATION

ECCS REPORTS (F-47)

TMI ACTION PLAN REQUIREMENTS

SACRAMENTO MUNICIPAL UTILITY DISTRICT
RANCHO SECO NUCLEAR GENERATING STATION UNIT 1

NRC DOCKET NO. 50-312

FRC PROJECT C5506

FRC ASSIGNMENT 7

NRC CONTRACT NO. NRC-03-81-130

FRC TASK 292

Prepared by

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Prepared for

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Washington, D.C. 20555

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May 28, 1982



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INTRODUCTION

This Request for Additional Information (RAI) is the result of an evaluation of the information contained in the Sacramento Municipal Utility District's (SMUD) letter dated January 16, 1981 [1] to the Nuclear Regulatory Commission (NRC) in response to NUREG-0737 [2], Item II.K.3.17, "Report on Outages of Emergency Core-Cooling Systems Licensee Report and Proposed Technical Specification Changes." The evaluation revealed an item of concern. Additional information relating to this concern is needed before a final evaluation can be made.

Item II.K.3.17
Report on Outages of Emergency Core Cooling Systems
Licensee Report and Proposed Technical Specification Changes

BACKGROUND

In NUREG-0737, Item II.K.3.17, the NRC requested that a licensee submit a report detailing dates, lengths, and causes of outages for all emergency core cooling (ECC) systems for the last five years of operation. The purpose of the request was to obtain a quantitative history of the unavailability of the ECC systems to help the NRC determine if cumulative outage limitations are required in technical specifications.

To clarify the issue, the report was to contain the following details on outages that occurred during a continuous 5-year period recent operation: (1) dates and durations; (2) causes, including test and maintenance; (3) ECC systems or components involved; and (4) corrective actions taken. In addition, a licensee was to propose changes to improve the availability of ECC system equipment, if necessary.

CONCERN

Evaluation of calculated small-break transients, with the assumptions of proper operator actions and the worst single failure in the ECC systems, has shown that some small breaks will result in partial uncovering of the core. However, technical specifications permit several components of the ECC systems to have substantial outage times. In addition, there are no cumulative outage limitations for ECC systems. Thus, the unavailability of an ECC system train for extended periods is not precluded.

For an evaluation of the responses to NUREG-0737, Item II.K.3.17, to be meaningful and to produce significant conclusions, the responses must be complete and accurate. They must include, for a continuous 5-year period of recent operation, not only the outage dates, durations, and causes, ECC system equipment involved, and corrective actions taken, but also outages of the

diesel generators and identification of the ECC system trains affected by the outages. Outages for surveillance testing and for planned, unplanned, and preventive maintenance should also be reported. This information will be used to determine the cumulative outage time of each ECC system train per reactor year and the need for cumulative outage limitations in the technical specifications.

SMUD's response [1] lists those outages which resulted in implementing a time limit for continued reactor operation. It does not include test and preventive maintenance outages which contributed to cumulative ECC system unavailability. The SMUD response does not provide sufficient information to satisfy the objective of NUREG-0737, Item II.K.3.17.

REQUEST

In order for the staff to continue its review of SMUD's response to NUREG-0737, Item II.K.3.17, additional information is required.

A complete summary of each component outage in the ECC and diesel generator systems for a continuous 5-year period of recent operation. For each outage, include the date, duration, and cause, the ECC or diesel generator system, train, and component involved, and corrective action taken. Include outages for surveillance testing and planned, unplanned, or preventive maintenance.

REFERENCES

1. J. J. Mattimoe (SMUD)
Letter to R. W. Reid (NRC, ORB 4)
Subject: TMI Action Plan, NUREG-0737
January 16, 1981
2. NUREG-0737
"Clarification of TMI Action Plan Requirements"
NRC
November 1980