

JUL 10 1991

Mr. Harold B. Ray
Senior Vice President
Southern California Edison Company
Irvine Operations Center
23 Parker Street
Irvine, California 92718

Dear Mr. Ray:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION, INADEQUATE CORE COOLING
MONITORING SYSTEM, SAN ONOFRE NUCLEAR GENERATING STATION, UNIT NO. 1
(TAC NOS. 45171 AND 74629)

The NRC staff is reviewing your proposed design for the San Onofre Nuclear
Generation Station, Unit No. 1 Inadequate Core Cooling Monitoring Systems as
described in a submittal dated January 2, 1990. Enclosure 1 to this letter
includes a list of questions generated by the staff following review of your
submittal. Please provide a response to these questions to help us complete
the review.

This requirement affects fewer than 10 respondents and, therefore, is not
subject to Office of Management and Budget review under Public Law 96-511.

Sincerely,

dk
ORIGINAL SIGNED BY *A. Rood*
George Kalman, Senior Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulations

Enclosure:
As stated

cc w/enclosure:
See next page

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Mr. Harold B. Ray
Southern California Edison Company

San Onofre Nuclear Generating
Station, Unit No. 1

cc:

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REQUEST FOR ADDITIONAL INFORMATION
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT NO. 1
INADEQUATE CORE COOLING MONITORING SYSTEM

Please respond to the following:

1. What is the distance between the heated junction thermocouples (HJTC) in the level monitoring system probe assembly?
2. What is the overall measuring range of the probe?
3. What is the distance between the top HJTC and the top of the active fuel region?
4. Provide system specifications for the following functions;
 - a. measuring sensitivity (indicated level error band)
 - b. response time (time delay between actual level increase or decrease and indication)
 - c. time delay between system activation (electric power on) and system operation
 - d. power supplies and power requirements for heaters.
5. Provide a copy of the HJTC calibration procedure.
6. Your letter dated November 29, 1990, included a list of HJTC failures at San Onofre Units 2 & 3 and at other facilities. Please provide the root cause of the failures and the corrective actions.
7. What is the current status and reliability history of the core exit thermocouples?