



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

April 23, 1992

Docket No. 50-206

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

Dear Mr. Ray:

SUBJECT: SAFETY EVALUATIONS FOR SAN ONOFRE 1 INADEQUATE CORE  
COOLING INSTRUMENTATION SYSTEMS (TAC NOS. M45171 AND M74629)

On January 2, 1990, The Nuclear Regulatory Commission issued an order that required the Southern California Edison Company (SCE) to submit specific plans for implementing the requirements of NUREG-0737, Item II.F.2, during the Cycle 12 refueling outage scheduled for late 1992. By letter dated November 29, 1990, SCE responded to this requirement by submitting specific plans for implementing the San Onofre Unit 1 Inadequate Core Cooling (ICCI) System. The staff reviewed this submittal and requested additional information on July 10, 1991. SCE responded to this request by letter dated December 12, 1991.

The staff has completed its review of these submittals and concluded that the proposed design of the Reactor Vessel Level Instrumentation System (RVLIS) and the modifications of the Core Exit Thermocouples (CET) meet the requirements of NUREG-0737, Item II.F.2, "Inadequate Core Cooling Instrumentation" and are acceptable for implementation. Enclosed are two of the staff's Safety Evaluations that support this conclusion of acceptability.

It should be noted that these Safety Evaluations also identify four contingencies upon our final acceptance. Specifically these open items are:

1. Emergency procedures and operator training have not been reviewed by the staff.
2. Technical Specifications for the ICCI system have not been submitted nor reviewed by the staff.
3. An implementation letter report as required by Item II.F.2 of NUREG-0737 has not been submitted by SCE. (See the attachment which provides the staff position for final implementation of the ICCI System.)
4. A list of Heated Junction Thermocouple (HJTC) failures and apparent failure modes, as committed to in the SCE letter of December 12, 1991, and the number of CET's that have been restored to operability has not been provided.

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Mr. Harold B. Ray

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At this time these contingencies to acceptability are suspended on the bases that San Onofre 1 will be shutdown at the completion of the Cycle 11 fuel cycle. In the event that this shutdown does not occur as presently planned, these four contingencies should be considered as open items and resolved prior to restart from a Cycle 12 refueling outage.

If you have a questions, please contact me at (301) 504-1381.

Sincerely,

Original Signed By:

John O. Bradfute, Project Manager  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Regulation

Enclosures:  
As stated

cc w/enclosures:  
See next page

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Docket File	NRC & Local PDRs	PDV Reading File
BBoger	MVirgilio	TQuay
DFoster	JBradfute	OGC, 15B18
BJones, 8E23	SNewberry, 8H3	ACRS, (10), P315
PDV Plant File	RZimmerman, RV	GKalman

OFC	PDV/LA	PDV/PM	PDV/PM	RSB	ICSB	PDV/PD
NAME	DFoster	JBradfute	GKalman	BJones	SNewberry	TO
DATE	4/22/92	23 Apr 1992	4/23/92	/ / 92	/ / 92	4/23/92

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DOCUMENT NAME: S045171.SE

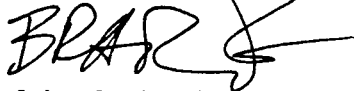
Mr. Harold B. Ray

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If you have a questions, please contact me at (301) 504-1381.

Sincerely,

A handwritten signature in black ink, appearing to read "BRADFUTE", with a large, stylized flourish extending from the end of the name.

John O. Bradfute, Project Manager  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Regulation

Enclosures:  
As stated

cc w/enclosures:  
See next page

Mr. Harold B. Ray  
Southern California Edison Company

San Onofre Nuclear Generating  
Station, Unit No. 1

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