



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

Docket No. 50-206

October 29, 1976

Southern California Edison Company
ATTN: Mr. Jack B. Moore
Vice President
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Gentlemen:

Your letter dated October 26, 1976 provided specific commitments concerning a steam generator inspection program for the San Onofre Nuclear Generating Station, Unit No. 1 (San Onofre, Unit No. 1). This program will be carried out as a result of the failure of a steam generator tube at Surry Unit No. 2. The failure at Surry Unit No. 2 appears to be due to a combination of intergranular stress corrosion and high stress in the inner row of U-bends resulting from tube support plate material movement at the center of the tube support plate which causes flow slot "hourglassing". This tube support plate material movement appears to be a result of stresses in the tube support plate as a result of tube "denting" which in turn appears to be the result of the expansion of precipitate and corrosion products deposited in the tube support plate annuli where the tubes pass through the tube support plate.

Your letter of October 26, 1976, stated that the specific steam generator tube inspections and any remedial action designed to limit the possibility for U-bend leakage as determined by the inspection findings will be accomplished to the satisfaction of the NRC and yourselves prior to the resumption of power operation at San Onofre, Unit No. 1. The facility was shutdown on September 30, 1976 for refueling and other planned major activities, and will not return to power operation before February, 1977.

We find your proposed actions acceptable as follows:

- (a) During the present facility shutdown, inspections will be conducted as necessary to ascertain the potential for excessive stress in the steam generator tube U-bends or other conditions that may be conducive to intergranular stress corrosion of steam generator tubes.

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- (b) Based on the conditions observed, SCEC will propose a program of repair. San Onofre, Unit No. 1 shall not resume operation until:
- (1) the proposed repair for Unit No. 1 has been approved in writing by the NRC, (2) all tubes required to be plugged by such criteria have been properly plugged, and (3) the unit is otherwise properly prepared to resume power operation.

The foregoing are deemed by the NRC staff to be minimum requirements to ensure that your facility does not operate with reduced integrity of the reactor cooling system pressure boundary.

Sincerely,

Karl R. Goller

Karl R. Goller, Assistant Director
for Operating Reactors
Division of Operating Reactors

cc: See next page

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cc: Rollin E. Woodbury, Vice President
and General Counsel
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Chickering & Gregory, General Counsel
ATTN: C. Hayden Ames
Esquire

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