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October 25, 1984

Director, Office of Nuclear Reactor Regulation
Attention: Mr. J. A. Zwolinski, Chief
Operating Reactors Branch No. 5
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Subject: Docket No. 50-206
SEP Topic III-6
Seismic Design Considerations
San Onofre Nuclear Generating Station
Unit 1

The purpose of this letter is to provide additional information requested by the NRC relating to the seismic reevaluation program for San Onofre Unit 1. Two subjects are covered by the supplied information and include: (1) the results of the evaluation of the interaction between piping systems and the inelastic structural beams in the turbine building, and (2) sample calculations of structural beam connections.

Enclosure 1 provides a report entitled, "Evaluation of Piping and Structures, San Onofre Unit 1, Return to Service," dated October 1984. This report is submitted in response to the request for information provided to SCE from the NRC by letter dated August 7, 1984. The results of the evaluation of the interaction between piping and inelastic beams conclude that the inelasticities in structural elements which could result during a DBE do not impair the piping and support functionality when evaluated on a system-wide basis. Appendices A and B provide additional information demonstrating the conservatism of the analytical approach used in the evaluation.

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Enclosure 2 provides sample calculations of structural beam connections. Three samples are transmitted:

- a) evaluation and modification due to torsional loads
- b) evaluation due to shear with no modifications
- c) evaluation for shear with modifications.

If you have any questions or desire additional information regarding this subject, please contact me.

Very truly yours,

M.O. Medford

Enclosures

ENCLOSURE 1