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October 25, 1984

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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

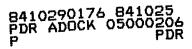
Seismic Design Considerations

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.





Mr. J. A. Zwolinski -2-October 25, 1984 Enclosure 2 provides sample calculations of structural beam connections. Three samples are transmitted: evaluation and modification due to torsional loads a) evaluation due to shear with no modifications b) evaluation for shear with modifications. $\label{lem:condition} If \ you \ have \ any \ questions \ or \ desire \ additional \ information \ regarding \\ this \ subject, \ please \ contact \ me.$ Very truly yours, m.o. medfud **Enclosures**

ENCLOSURE 1