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 PAULSON, W. A. Operating Reactors Branch 5

SUBJECT: Forwards addl info re seismic reevaluation program per
 SEP Topic III-6. Sample calculations re seismic evaluation
 of safe shutdown piping & results of seismic evaluation
 of vent stacks included.

"see repts"

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NOTES: J Hanchett 1cy PDR Documents. NRR/DL/SEP 1cy.
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August 29, 1984

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Director, Office of Nuclear Reactor Regulation
Attention: Mr. W. A. Paulson, Acting 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 reports are provided and include: (1) sample calculations relating to seismic evaluation of safe shutdown piping and (2) results of the seismic evaluation of the vent stack.

Enclosure 1 provides three sample calculations performed on the main feedwater piping. These sample calculations are FW-04, "Safe Shutdown Piping Functionality Assessment," SUP-FW-04-01, "Pipe Support Evaluation for Pipe Functionality" and SUP-FW-04-02, "Pipe Support Capacity Calculations." These calculations were performed to demonstrate the functionality of the main feedwater piping system as part of the San Onofre Unit 1 seismic return to service program. As shown in SUP-FW-04-01, an iterative quasi-linear analysis procedure was used to demonstrate the functionality of the piping considering variation in the support stiffnesses due to yielding of structural steel members. This is equivalent to performing a non-linear analysis, accounting for the non-linear load-deflection behavior of the structural steel loaded beyond elastic limits. The calculation iterations are provided as the appendices of SUP-FW-04-01.

Enclosure 2 provides a report entitled "Vent Stack Seismic Evaluation, San Onofre Nuclear Generating Station, Unit 1," dated August 14, 1984. This report provides an evaluation of the San Onofre Unit 1 vent stack and demonstrates that the vent stack will retain its design function following the occurrence of a 0.67g Design Basis Earthquake using the SONGS 1 Balance of Plant Structures Seismic Reevaluation Criteria.

If you have any questions regarding this information, please call me.

Very truly yours,

*A028
1/1 Limited
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M. O. Medford

Enclosures

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PDR

ENCLOSURE 1