

JUL 15 1987

Docket No.: 50-206

**DISTRIBUTION**

Mr. Kenneth P. Baskin  
Vice President, Nuclear Engineering  
Safety and Licensing Department  
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Docket File  
NRC/Local PDRs  
PD5 Plant File  
GHolahan/JLee  
RDudley/EJordan  
JPartlow/ACRS (10)  
OGC-Bethesda  
JCraig  
DShum

Dear Mr. Baskin:

SUBJECT: TRANSAMERICA-DELAVAL, INC. (TDI) DIESEL ENGINE  
RELIABILITY AND OPERABILITY (TAC NO. 65087)

Re: San Onofre Nuclear Generating Station, Unit 1 (SONGS-1)

The NRC staff has reviewed your March 25, 1987 submittal regarding transient torsional stresses in the crankshafts of the TDI diesel engines used as emergency generators at SONGS-1. The staff is concerned that even after "slow-start" modifications are implemented, the design margins against fatigue for the SONGS-1 crankshafts may fall short of what is normally assumed to be the case for crankshafts in general; namely, that crankshafts are adequate for infinite fatigue life for their intended service. In order to support resolution of this issue, further justification for your position is needed. Please provide a response to the enclosed request for additional information within 60 days of receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Original signed by

Richard F. Dudley, Jr., Project Manager  
Project Directorate V  
Division of Reactor Projects - III,  
IV, V and Special Projects

Enclosure:  
As stated

cc: See next page

*RFa 6K*  
\*See previous concurrence  
\*DRSP/PDV DRSP/D:PDV  
RDudley:cd GWKnighton  
7/13/87 7/15/87

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Mr. Kenneth P. Baskin  
Southern California Edison Company

San Onofre Nuclear Generating  
Station, Unit No. 1

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Regional Administrator, Region V  
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## REQUEST FOR ADDITIONAL INFORMATION

After review of the licensee's March 25, 1987 submittal, the staff is concerned that the option chosen for reducing crankshaft stresses does not meet the recommendations in Section 2.1.3.12 of the staff's January 28, 1987 Safety Evaluation Report. The staff believes that even after "slow-start" modifications are implemented, the design margins against fatigue for the San Onofre crankshafts may fall short of what is normally assumed to be the case for crankshafts in general; namely, that crankshafts are adequate for infinite fatigue life for their intended service. In order to support resolution of this issue the staff will evaluate the licensee's proposed corrective action. However, further justification for the licensee's position is needed. Therefore, we request that the licensee provide the data and analyses methods that support the diesel vendor's conclusions. Sufficient detail and explanation should be provided so that an independent review of the analyses can be performed.