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ACCESSION NBR: 8201230026 DOC. DATE: 82/01/21 NOTARIZED: NO DOCKET #
 FACIL: 50-361 San Onofre Nuclear Station, Unit 2, Southern California 05000361
 50-362 San Onofre Nuclear Station, Unit 3, Southern California 05000362
 AUTH. NAME: AUTHOR AFFILIATION
 DIETCH, R. Southern California Edison Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director
 EISENHUT, D. G. NRCI - No Detailed Affiliation Given

SUBJECT: Forwards Potential Finding Repts 0023, 0024, 0032, 0033 issued to Babcock Power & 0034 issued to util by GAI Co. Repts have not been verified for validity & accuracy by priginal design organization.

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Southern California Edison Company



P.O. BOX 800

2244 WALNUT GROVE AVENUE

ROSEMEAD, CALIFORNIA 91770

ROBERT DIETCH

VICE PRESIDENT

TELEPHONE

213-572-4144

January 21, 1982

Mr. Harold R. Denton,
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. Darrell G. Eisenhut

Dear Mr. Denton:

Subject: Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station
Units 2 and 3



Enclosed are seven copies each of Potential Finding Reports Nos. 0023, 0024, 0032 and 0033 issued to Bechtel Power Company, as well as No. 0034 issued to Southern California Edison Company by General Atomic Company. These reports reflect the reviewer's initial opinion and have not been verified for validity and accuracy by the original design organization.

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

Very truly yours,

Robert Dietch

cc: NRC Region V
R. H. Engelken (with enclosure)

Boo
1/1

8201230026 820121
PDR ADOCK 05000361
S PDR



TORREY PINES TECHNOLOGY

P.O. Box 41608
San Diego, California 92168
Telephone: (714) 455-2654

*Rec'd on 2/4/82
1/20/82 @ 2:00 pm*

GEORGE L. WEGGMAN
Director

January 20, 1982

Mr. D. J. Fogarty
Executive Vice President
Southern California Edison
P. O. Box 800
Rosemead, California 91770

Dear Mr. Fogarty:

Attached are Potential Finding Reports 2408-PFR-0023, 0024, 0032
and 0033.

Sincerely,

George L. Wegman

George L. Wegman
Project Manager

cc: J. Adrian - SCE
J. Hempe - Bechtel

POTENTIAL FINDING REPORT
SONGS 2&3 SEISMIC DESIGN VERIFICATION

PFR NO. 2408-PFR-0023

REVISION _____

0023

REPARATION BY GA INITIATOR

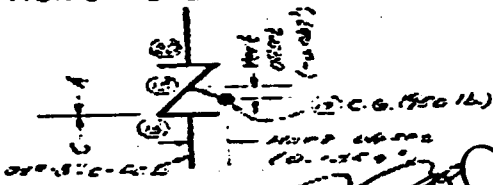
AFFECTED ITEMS: Safety Injection Line to Reactor Coolant Loop 1A
Piping Stress Analysis Package PSC-7A.

REQUIREMENT REFERENCE DOCUMENTS:

DO Drg. 1204-043-1, Computer Run Q22L27.

BASIC REQUIREMENT: Valve C.G. should be correctly modeled for computer input.

DESCRIPTION OF POTENTIAL FINDING:



Node 17 is the node for the C.G. of the valve. The valve has vertical and horizontal offsets. Vertical offset is included in the computer model, however the horizontal offset is not included.

PREPARED BY: A. Chuang DATE: 1-18-82
REJECTION OF GA TASK LEADER COMMENTS BY: _____ DATE: _____
REJECTION OF ORIGINAL DESIGN ORG. COMMENTS BY: _____ DATE: _____

REVIEW BY GA TASK LEADER _____ COMMENTS _____

THIS POTENTIAL FINDING IS UNDER REVIEW BY ORIGINAL DESIGN ORGANIZATION FOR VALIDITY AND ACCURACY.

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POTENTIAL FINDING REPORT
SONGS 2&3 SEISMIC DESIGN VERIFICATION

PFR NO. 2408-PFR-0021
REVISION - 0024

PREPARATION BY GA INITIATOR

AFFECTED ITEMS: Safety Injection Line to Reactor Coolant Loop 1A
Piping Stress Analysis Package PSG-78.

REQUIREMENT REFERENCE DOCUMENTS:
ASME B&PV Code, 1974 Edition.

BASIC REQUIREMENT: Input data for Seismic Anchor Movement (SAM) should be clearly specified in the calculation package.

DESCRIPTION OF POTENTIAL FINDING: The criteria used for determining the seismic anchor movement (SAM) is not adequately documented. No supporting calculations are shown for the anchors at nodes 5 and 30 although anchor motions are included in the computer run. The calculation for the SAM at anchor 140 are not adequately explained nor is the data used properly documented or traceable.

PREPARED BY: A. Chiang DATE: 1-16-82
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REVIEW BY GA TASK LEADER _____ COMMENTS _____

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POTENTIAL FINDING REPORT
SONGS 2&3 SEISMIC DESIGN VERIFICATION

PFR NO. 7208-PFR-0032
REVISION _____

PREPARATION BY GA INITIATOR

AFFECTED ITEMS: The Seismic Category I Motor Control Centers (MCC).

REQUIREMENT REFERENCE DOCUMENTS: Bechtel Power Corporation Spec. No. 8023-302-4 and Addendum "Quality Class II and III Spec. for Motor Control Centers for the Southern California Edison, San Onofre Nuclear Generating Stations Units 2 and 3."

BASIC REQUIREMENT: Section 4.8 of Spec. states that the elevation and location of each MCC will be as specified in Exhibit A (Appendix B of the Spec.).

DESCRIPTION OF POTENTIAL FINDING:

- Exhibit A includes Electrical line drawings. Elevation, and location information is missing.
- Because the vendor does not know where MCC's are located he does not know which response spectra to test to (50' or Grade).

PREPARED BY: A. Middleton *Alan Middleton* DATE: 1-19-82

REJECTION OF GA TASK LEADER COMMENTS BY: _____ DATE: _____

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REVIEW BY GA TASK LEADER

COMMENTS

AGREE PFR IS VALID

BY: *D. J. [Signature]*

DATE: 1/19/82

REQUEST RE REVIEW

BY: _____

DATE: _____

DISAGREE

BY: _____

DATE: _____

REVIEW OF ORIGINAL DESIGN ORGS. COMMENTS BY: _____

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UNDER REVIEW BY ORIGINAL
DESIGN ORGANIZATION FOR
VALIDITY AND ACCURACY.

POTENTIAL FINDING REPORT SONGS 2&3 SEISMIC DESIGN VERIFICATION

PREPARATION BY GA INITIATOR

AFFECTED ITEMS: Safety Injection Line to Reactor Coolant Loop 1A
Piping Stress Analysis Package PSG-78

REQUIREMENT REFERENCE DOCUMENTS:

ISO Drg. 1204-043-1

BASIC REQUIREMENT: Valve weight be included in axial restraint calculations.

DESCRIPTION OF POTENTIAL FINDING: Sheet 44 Calculation for the axial restraint at data point 5 did not include the weight of 950 lbs for valve (8"-DX2-A-552) although the weight of the piping (039-8"C-FED) on both sides of the valve was included.

PREPARED BY: A. Chuang DATE: 1/19/82
REJECTION OF GA TASK LEADER COMMENTS BY: _____ DATE: _____
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<u>REVIEW BY GA TASK LEADER</u>	<u>COMMENTS</u>
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THIS POTENTIAL FINDING IS UNDER REVIEW BY ORIGINAL DESIGN ORGANIZATION FOR VALIDITY AND ACCURACY.



TORREY PINES TECHNOLOGY

P.O. Box 81608
San Diego, California 92138
Telephone: (714) 455-2654

*Rec'd on May 1/20/82
@ 2:00 pm*

GEORGE L. WESSMAN
Director

January 20, 1982

Mr. Jack Adrian
Manager, Generation
Engineering and Design
SOUTHERN CALIFORNIA EDISON
P. O. Box 800
Rosemead, CA 91770

Dear Jack:

Attached is a copy of the transmittal to Mr. Fogarty which includes
Potential Finding Report 2408-PFR-0034.

Sincerely,

George L.

George L. Wessman
Project Manager

Attachment

POTENTIAL FINDING REPORT

SONGS 2&3 SEISMIC DESIGN VERIFICATION

REVISION _____

REPARATION BY GA INITIATOR

AFFECTED ITEMS: SCE Quality Assurance Procedure N18.04, Rev. 18 (11/23/81) and prior revisions - "QA Organization Audits - Scheduling, Planning, Performance, Documentation, and Follow-Up"

REQUIREMENT REFERENCE DOCUMENTS:

10CFR50, Appendix B - Criterion 18 and Regulatory Guide 1.144 (Rev. 1, 9/80), with its endorsed ANSI/ASME N45.2.12-1977.

BASIC REQUIREMENT:- Appendix B requires that "A comprehensive system of planned and periodic audits shall be carried out to verify compliance with all aspects of the quality assurance program and to determine effectiveness of the program." ANSI/ASME N45.2.12-1977 states: "The objectives of the audit system are: 3.2.3 to assess the effectiveness of the quality assurance program;"

DESCRIPTION OF POTENTIAL FINDING:

SCE Quality Assurance Procedure N18.04 did not specify assessment of effectiveness of the quality assurance program as an audit objective. Consequently, QA audits concerned with seismic design output implementation might confirm compliance with established controls, for example, without determining effectiveness.

PREPARED BY: W. J. General

DATE: 1/19/82

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DATE: _____

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DATE: _____

REVIEW BY GA TASK LEADER

COMMENTS

AGREE PFR IS VALID

BY J. Berman

DATE 1/19/82

REQUEST RE-REVIEW

BY _____

DATE _____

DISAGREE

BY _____

DATE _____

REVIEW OF ORIGINAL DESIGN ORGS. COMMENTS BY: _____

DATE: _____

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