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 FACIL: 50-361 San Onofre Nuclear Station, Unit 2, Southern California
 50-362 San Onofre Nuclear Station, Unit 3, Southern California
 AUTH. NAME: PAPA Y, L. T. AUTHOR AFFILIATION: Southern California Edison Co.
 RECIP. NAME: ENGELKEN, R. H. RECIPIENT AFFILIATION: Region 5, San Francisco, Office of the Director

DOCKET #
 05000361
 05000362

SUBJECT: Final deficiency rept re failure to comply w/ASME boiler & pressure vessel code, initially reported on 801229. Subj matl was placed on hold until code compliance is established. All NSSS code equipment will be reviewed.

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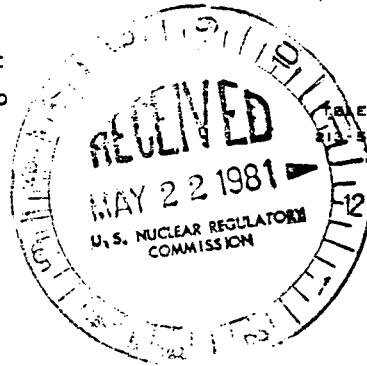
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L. T. PAPAY
VICE PRESIDENT

May 18, 1981



Mr. R. H. Engelken, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region V
Suite 202, Walnut Creek Plaza
1990 North California Boulevard
Walnut Creek, California 94506

Dear Mr. Engelken:

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

In a letter to your office dated December 29, 1980, we identified a condition which we considered potentially reportable in accordance with 10CFR50.55(e). The condition concerns failure to comply with the ASME Boiler and Pressure Vessel Code, Section III, NCA-3867.4(e) regarding bolting material. An interim report on this condition was submitted to you by letter dated January 28, 1981.

Enclosed are twenty-five (25) copies of a final report entitled, "FINAL REPORT ON ASME BOLTING MATERIAL, San Onofre Nuclear Generating Station, Units 2 and 3."

If you have any questions regarding this report we would be pleased to discuss them with you at your convenience.

Very truly yours,

Enclosures

cc: ~~VICTOR SPELLA~~ (NRC, Director I&E)
R. J. Pate (NRC, San Onofre Units 2 and 3)

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FINAL REPORT ON ASME BOLTING MATERIAL

San Onofre Nuclear Generating Station, Units 2 and 3

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e)(3). It describes a condition involving failure of ASME Code bolting material suppliers to comply with Code requirements. This report includes a description of the condition, an analysis of the safety implications, and a summary of corrective actions taken. By letter dated December 29, 1980, Edison confirmed notification to the NRC of this potentially reportable condition and, by letter dated January 28, 1981, submitted an interim report.

BACKGROUND

Late in 1980 audits of suppliers of field-installed ASME Code bolts revealed that material manufacturers (bolt manufacturers) were not complying with the ASME Code regarding the performance of chemical analysis checks on receipt of stock material for bolts with a nominal diameter over one inch. A complete investigation of suppliers of ASME Code bolts and suppliers of ASME Code Components was initiated.

DISCUSSION

The following discussion is responsive to 10CFR50.55(e)(3).

Description of Deficiency

Certain material manufacturers and material suppliers of ASME Section III Bolting Material have been found in noncompliance with paragraph NCA-3867.4(e) of Section III of the ASME Code. These suppliers are verifying chemical composition of purchased stock material by performing tests of samples from each heat or lot rather than performing a verification of each piece furnished by the stock material manufacturer.

Analysis of Safety Implications

An analysis of the safety implications has not been performed. This condition is reported as a significant departure from the requirements of the ASME Code.

Corrective Action

- a. A hold was placed on all the subject ASME bolting material in stock until Code compliance could be established.
- b. A review of documentation for field installed ASME Code bolt material identified heat lot numbers for all bolts with nominal diameter over one inch. A Quality Program verification conducted at each of the manufacturers of Stock material in question verified that each of them had an acceptable system for material control and identification in effect at the time of the manufacture of the identified heat lots. ASME Code Case N242 will be invoked by the Project for these bolts. Compliance with the Code Case will be achieved by annotating the ASME Installer's Data Report, Form N-5, for each system in which such bolts are installed. Results of the Quality Program Verification and a certification by the Installer (Bechtel) that all requirements of the Code Case have been met will be provided to the Code jurisdictional authority.
- c. Letters issued to Balance-of-Plant Code equipment suppliers resulted in seven (7) positive responses; i.e., their equipment did contain ASME bolting material in excess of 1". These seven (7) suppliers all reconfirmed that their material met the requirements of the ASME Code.
- d. A complete review of all NSSS Code equipment to establish compliance will be completed by June 15, 1981.