

Southern California Edison Company

SCE

P. O. BOX 800

2244 WALNUT GROVE AVENUE

ROSEMEAD, CALIFORNIA 91770

L. T. PAPAY
VICE PRESIDENT

TELEPHONE
213-572-1474

September 1, 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 94596



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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 August 4, 1981 we identified a condition which we considered reportable in accordance with 10CFR50.55(e). The condition involves the use of a flammable spray adhesive to secure fireproof insulation to electrical components.

Enclosed in accordance with 10CFR50.55(e) are twenty-five (25) copies of a Final Report entitled, "FINAL REPORT ON THE USE OF FLAMMABLE SPRAY ADHESIVE WITH FIREPROOF INSULATION, San Onofre Nuclear Generating Station, Units 2 and 3."

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

Very truly yours,

[Handwritten signature]

Enclosures

cc: Victor Stello (NRC, Director I&E)
R. J. Pate (NRC, San Onofre Units 2&3)

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FINAL REPORT ON THE USE OF FLAMMABLE SPRAY ADHESIVE WITH FIREPROOF INSULATION

San Onofre Nuclear Generating Station, Units 2 and 3

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e)(3). It describes a condition discovered during construction. This report includes a description of the condition, an analysis of the safety implications, and a summary of corrective action taken. By letter dated August 4, 1981 Southern California Edison confirmed notification to the NRC of the reportable condition.

BACKGROUND

During inspection of the installation of fireproof cerablanket wraps on certain electrical components such as cable trays, tray supports, conduit, and conduit supports, it was determined that 3M No. 77 spray adhesive was used by the installer as a construction aid. This spray adhesive contains a flammable component when wet. It is not capable of supporting combustion after drying. In addition, the adhesive can delaminate when heated in excess of 180°F.

DISCUSSION

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

Description of the Deficiency

A spray adhesive, manufactured by the 3M company, was used during the installation of fireproofing on certain electrical components in both Unit 2 and Unit 3. This application was limited to use of enough adhesive to hold the initial layer of cerablanket in place until the total installation could be completed and approved fireproof bands applied.

Analysis of Safety Implications

A comprehensive review of the use of 3M No. 77 spray adhesive in San Onofre Units 2 and 3 did not indicate a significant reduction in safety. This is based on:

- (A) The very limited use of the adhesive.
- (B) It was used only to hold the lower layer of fireproofing in place during installation.
- (C) It could not come in direct contact with flame due to the type of wraps used.
- (D) After installation it served no functional purpose.

FINAL REPORT ON THE USE OF FLAMMABLE SPRAY ADHESIVE
WITH FIREPROOF INSULATION
San Onofre Units 2&3

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Corrective Action

Although the limited use of this material had no safety implications, all spray adhesive used was identified and removed. Secondly, the use of any flammable adhesive was discontinued.