Docket Nos. 50-361/362

50.55(e) Report

Southern California Edison Company
P. O. BOX 800
2244 WALNUT GROVE AVENUE
ROSEMEAD, CALIFORNIA 91770

SCE

L. T. PAPAY
VICE PRESIDENT

November 2, 1982

TELEPHONE
213-572-1474

Mr. R. H. Engelken, Regional Administrator
U. S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596-5368

Dear Mr. Engelken:

SUBJECT: Docket No. 50-361 and 50-362
San Onofre Nuclear Generating Station, Units 2 and 3

By letter to your office dated April 5, 1982, we transmitted a report regarding the possibility of failure of Lumigraph instrument indicators which we had previously reported to you as a potentially significant deficiency in accordance with 10CFR50.55(e).

Further developments have caused changes to the corrective action we are taking regarding the reported condition. Consequently, attached are twenty-five (25) copies of a supplemental report entitled "SUPPLEMENTAL REPORT ON SIGMA MODEL 9270 INDICATOR RESISTER PROBLEM, San Onofre Nuclear Generating Station, Units 2 and 3."

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

Very truly yours,

Attachments

cc: Victor Stello (NRC, Director I&E)
A. E. Chaffee (NRC, San Onofre Units 2 and 3)

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82-390

SUPPLEMENTARY REPORT ON SIGMA MODEL 9270 INDICATOR RESISTOR PROBLEM

San Onofre Nuclear Generating Station, Units 2 and 3

INTRODUCTION

By letter dated April 5, 1982, Southern California Edison transmitted a report regarding the deterioration of the carbon-type electrical resistors in model 9270 Lumigraph instrument indicator which could, over a period of time, cause the indicators to malfunction. That report recorded the results of investigation of causes, analysis of safety implications, and corrective action to be taken. This supplementary report revises the completion date of the corrective action which has been developed as a result of further field investigation.

CORRECTIVE ACTION

The final completion date for replacing the resistors, recalibrating the instruments and the system loop retesting for both units will be April 1, 1983.

The potential deficiency identified with the Sigma indicators was related to specific resistors which, due to their carbon composition, could overheat and change value. However, the vendor stated that no short-term malfunctions should be expected since the potential problem has been observed after one to several years of full power services. Since SONGS 2 and 3 are not under full power operation, the integrated value of overheat and service time for the resistors would not exceed the value of one-year full power operation if these resistors were replaced prior to April 1, 1983. So far no indicator malfunctions have occurred due to the above problem at SONGS 2 and 3; therefore, we are confident that this deficiency will not occur prior to April 1, 1983.

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