

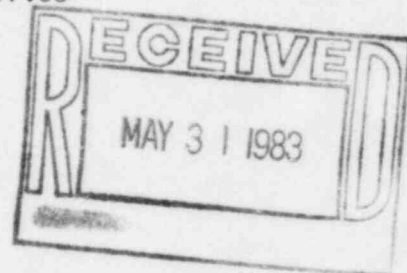
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May 24, 1983

W3183-0188
Q-3-A35.07.83

Mr. John T. Collins, Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76012



SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 83
"Heat Tracing Design Deficiencies Identified
During Hot Functional Testing"
First Interim Report

REFERENCE: Telecon dated April 27, 1983 from M. A. Livesay to C. Oberg

Dear Mr. Collins:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Interim Report of Significant Construction Deficiency No. 83, "Heat Tracing Design Deficiencies Identified During Hot Functional Testing." This item was previously identified as PRD 115.

If you have any questions, please advise.

Very truly yours,

F. J. Drummond
Project Support Manager - Nuclear

FJD/MAL:keh

- cc: 1) Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
- 2) Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
- 3) Mr. E. L. Blake
- 4) Mr. W. M. Stevenson

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INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 83
"HEAT TRACING DESIGN DEFICIENCIES IDENTIFIED DURING HOT FUNCTIONAL TESTING"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). The report describes "electrical interference" deficiencies with the safety related heat trace 'A' and 'B' panels. This problem is considered reportable under the requirements of 10CFR50.55(e). To the best of our knowledge it has not been reported pursuant to 10CFR21.

DESCRIPTION

During prerequisite testing of the boric acid system heat tracing, electrical interference on temperature sensing thermocouple extension cables was found to cause premature operation of over-temperature cutouts and alarms. These circuits are utilized to control the temperature of the boric acid system and prevent precipitation during normal operation.

SAFETY IMPLICATION

Failure or misoperation of the boric acid heat tracing could cause precipitation of boric acid and prevent proper operation of the boron injection system thereby impairing safe shutdown.

CORRECTIVE ACTION

Engineering evaluation has determined that electrical interference may be reduced by the addition of filters and revised termination schemes. Implementation of corrective action is ongoing with rework completion and retesting expected by August 15, 1983.

An update or Final Report will be submitted to the USNRC on or before August 26, 1983.

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