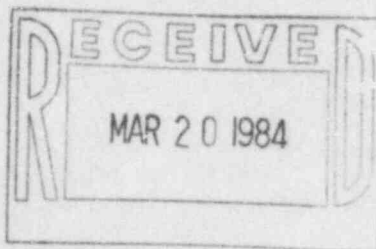


LOUISIANA
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March 14, 1984



W3K84-0585
Q-3-A35.07.75

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

REFERENCE: LP&L letter W3K83-1612 dated January 20, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 75
"Station Battery Equalizing Charge Voltage Exceeds Coil Ratings"
Final Report

In accordance with the requirements of 10CFR 50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 75, "Station Battery Equalizing Charge Voltage Exceeds Coil Ratings".

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets
Corporate Quality Assurance Manager

TFG:CNH:VBR

Attachment

cc: Director

Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555
(15 copies)

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Mr. John T. Collins

March 14, 1984

W3K84-0585

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cc: Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. E. L. Blake
Shaw, Pittman, Potts, & Trowbridge
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Washington, D.C. 20036

Mr. W. M. Stevenson
Monroe & Lemann
1424 Whitney Building
New Orleans, Louisiana 70130

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 75
"STATION BATTERY EQUALIZING CHARGE VOLTAGE EXCEEDS COIL RATINGS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a design deficiency that existed in certain coils installed in the safety related 125v DC power system that were rated at lower voltages than those used for periodic equalizing charges in the station battery.

DESCRIPTION

A survey of purchasing documentation indicates that some solenoid coils purchased for use as valve actuators are rated at 120v DC \pm 10%. The normal system float voltage of 132v DC is at the upper limit of these coil's ratings and the periodic equalizing charge voltage of 139.8v DC exceeds the rating significantly.

SAFETY IMPLICATIONS

The operation of these coils at voltages above their ratings may result in accelerated deterioration and failure of the coils thus rendering a system important to safety inoperable, if left uncorrected.

CORRECTIVE ACTION

All class 1E DC equipment procured and installed at Waterford 3 was evaluated for elevated DC voltage during equalizing charge voltage of 139.8v DC. The evaluation concluded that class 1E DC equipment will not be subject to operating stresses in excess of what the equipment had been designed and tested to.

However, to assure the life and integrity of the equipment, a request for a change has been forwarded to licensing for incorporation in the next amendment to the FSAR. Applicable maintenance procedures have been changed to reflect the following voltage levels:

1. Individual cell equalization while the rest of the battery is float charged between 130.2 and 135 volts.
2. Equalize charge is to be between 135 and 136.2 volts.

No hardware changes were required.

This report is submitted as the final report.