



**LOUISIANA
POWER & LIGHT**

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April 11, 1983 L. V. MAURIN
Vice President Nuclear Operations

W3I83-0118
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



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

JE-27

Reference: Telecon from M. A. Livesay to J. Boardman on March 11, 1983

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. 75, "Station Battery Equalizing Charge Voltage Exceeds Coil Ratings." This condition was originally identified as PRD 107.

Very truly yours,

L. V. Maurin
L. V. Maurin

LVM/MAL/grf

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

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Interim Report
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 in that certain coils installed in the safety related 125v DC power system are 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.

Corrective Action

An engineering evaluation is presently underway to compare 125v DC system component ratings with expected system operating voltages and develop appropriate design modifications where applicable. Further information will be supplied to the NRC by July 29, 1983.