



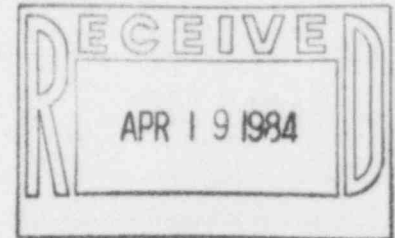
LOUISIANA
POWER & LIGHT

142 DELARONDE STREET
P O BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

April 12, 1984

W3K84-0845
Q-3-A35.07.100

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 W3K84-0822 dated April 9, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 100
"Terminations to Knox Fuse Blocks, G.E. 4160V Switchgear"
Final Report

In accordance with the requirement of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 100, "Terminations to Knox Fuse Blocks, G.E. 4160V Switchgear".

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets
Corporate Quality Assurance Manager

TFG:CNH:SSTG

cc: Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

8404260202 840426
PDR ADOCK 05000382
S PDR

IL-27 10

Mr. John T. Collins
April 12, 1984
W3K84-0845
Page 2

cc: Mr. E. L. Blake
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

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

Mr. W. A. Cross
7910 Woodmont Avenue
Suite 1200
Bethesda, Maryland 20814

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

FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 100
"TERMINATIONS TO KNOX FUSE BLOCKS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes electrical terminations made to Knox, 600V, 60AMP fuse blocks (Cat. No. 525696) mounted in General Electric (GE) metalclad 4.16KV safety switchgear.

This item has been reported to the USNRC pursuant to 10CFR21, by GE of Burlington, Iowa.

DESCRIPTION

Because of circuit requirements, Knox fuse blocks (as described above) were used by GE. The terminal lug of these fuse blocks was designed for solid wire, however, stranded wire was specified with ring tongue type terminations. GE's use and modifications of the ring tongue, spade tongue and tab type lugs allowed terminating standard #8AWG and #14AWG control cable into the Knox fuse block clamp type connectors. This type of connection was thought to be deficient.

SAFETY IMPLICATIONS

A total loss of connection to the fuse could render the 4.16KV breakers inoperable and unable to perform its intended safety function.

CORRECTIVE ACTION TAKEN

Contact with GE and preliminary visual inspection concluded that terminations appeared to be functional and that the as-installed terminations were electrically suitable to carry the circuit currents and seismically qualified to withhold under a seismic event. Based upon the above and in light of no related field failures, no corrective action was deemed necessary by GE. However, LP&L inspected all Knox fuse block terminations with the vendor representative present, per GE's recommendation in the January 26, 1984 letter to Mr. Richard DeYoung, Office of Inspection & Enforcement U.S. Nuclear Regulatory Commission and relocated/retightened any single #14AWG connections that were in the fuse lower clamp connector area to the more desirable upper clamp area.

This report is submitted as the Final Report.