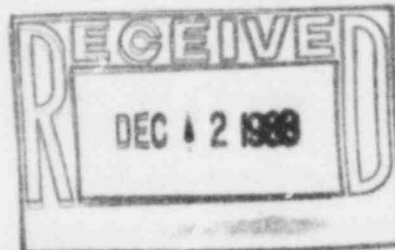


LOUISIANA

POWER & LIGHT / Waterford 3 SES/P. O. Box B/Killona, LA 70066

December 7, 1983

W3K83-1902
Q-3-A35.07.66



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 W3K83-1698 dated November 2, 1983

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 66
"Defective GE Type AKR Breakers, C-Clips Fall Off"
Final Report

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 66, "Defective GE Type AKR Breakers, C-Clips Fall Off".

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets

T. F. Gerrets
Quality Assurance Manager

TFG:CNH:VBR

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

IE-27
11

Mr. John T. Collins
December 7, 1983
E3K83-1902
Page 2

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
1800 M Street, N.W.
Washington, D.C. 20036

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

FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 66
DEFECTIVE GE TYPE AKR BREAKERS, C-CLIPS FALL OFF

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a condition that existed relative to the operation of 480 volt switchgear breakers encountered during startup testing. A breaker failed to close thereby preventing the shield building vent fan E-17 (3A-SA) from operating as required. This problem is considered reportable under the requirements of 10CFR50.55(e).

To the best of our knowledge, this problem has not been identified to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION

During startup testing, the 480 volt switchgear breaker in 3A31S compartment 5B feeding the Shield Building Vent Fan did not close as required. Upon inspection of the breaker, it was found that a "C"-Clip, which retains a pin in the closing mechanism, had fallen off, thereby preventing the breaker from closing.

SAFETY IMPLICATIONS

A check has been made on 88 circuit breakers in both safety and non-safety related systems, and four had "C"-Clips missing and five had loose clips. On these nine, the pins were still in place; however, with additional operations, if left uncorrected these pins may have fallen out and prevented breaker closure. Energization of switchgear breaker vent fans and other safety related loads fed by these breakers is required for the safe operation and shut down of the plant.

CORRECTIVE ACTION

NCR W3-4835-S1 was initiated to track and document corrective action. "C"-Clips of the type described above are used on all 480V breakers and had previously been considered an acceptable retaining means. General Electric (GE) was contacted to determine if the installation of the "C"-Clips required more specific installation instructions (e.g., do not reuse clip after removal; install with special tool, etc.). In response GE supplied predrilled closure pins with cotter pin retainers as replacements for the subject C-Clips.

In addition to the above, all 480V safety and non-safety related switchgear assemblies have been reinspected for damaged, missing or incorrect retainers and, where needed, replacements were installed. LP&L maintenance procedures were revised to include the correct part identification for replacement installation, and to provide for periodic reinspection of pin integrity. NCR-W3-4835-S1 has been closed and verified.

This report is submitted as the Final Report.