LOUISIANA POWER & LIGHT/ Waterford 3 SES/P. O. Box B/Killona, LA 70066
MIDDLE SOUTH UTILITIES SYSTEM

December 6, 1983

W3K83-1896
Q-3-A35.07.87

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 W3I83-0307, dated September 9, 1983

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 87
"GE 480V Breaker AKR-4A-50, Wiring Error"
Final Report

In accordance with the requirement of 10CFR50.55(e), we are hereby providing two copies of Significant Construction Deficiency No. 87, "GE 480V Breaker AKR-4A-50, Wiring Error".

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
1/1

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

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

FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 87
"GE 480V BREAKERS AKR-4A-50, WIRING ERROR"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a wiring error identified in GE 480V breakers.

To the best of our knowledge this deficiency has not been reported to the USNRC pursuant to 10CFR21.

DESCRIPTION

It has originally been determined that the GE factory wiring for 480V breakers (AKR-4A-50) located in safety and nonsafety related switchgear was not in accordance with the manufacturer's control wiring diagram. It was thought that the jumper wire was installed by the vendor between the breaker's 52X contacts and the 52W coil causing the closing circuit to open prematurely by the early energization of the 52W antipump coil. However, failure of the breaker to close was not due to the wiring discrepancy, but by a defective breaker switch.

SAFETY IMPLICATIONS

The jumper cable was added by GE to improve the anti-pump characteristics of the closing circuit when closing under low closing voltage conditions. This condition does not exist due to the nature of the 125V system design and its' omission would not adversely affect the IE performance of the breaker.

CORRECTIVE ACTION TAKEN

The breaker's internal wiring was originally checked by a GE Service Representative who verified that the jumper wire needed to be removed for proper breaker operation. NCR-W3-6566 was initiated to track and document the removal of the jumper wire. Subsequent to the removal of the jumper wire, it became apparent that faulty operation of the breaker was due to a defective switch. Corrective action of the defective switch is being performed under the Engineering disposition of NCR-W3-7144 (SCD #91) which is scheduled for completion in January, 1984. NCR-W3-6566 (jumper removal) has been closed and verified.

This report is submitted as the Final Report.