LOUISIANA POWER & LIGHT
MIDDLE SOUTH UTILITIES SYSTEM
142 DELARONDE STREET
P. O. BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

February 11, 1982

G. D. McLENDON
Senior Vice President

W3K82-0080
Q-3-A35.07.45

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U.S. NUCLEAR REGULATORY COMMISSION
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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
Interim Report of Significant Construction Deficiency No. 45
"AKR 50 Relay Bell Switch Mounting Failure"

Reference: Telecon - L. Bass (LP&L) to L. Martin (NRC) on 1/8/82

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. 45, "AKR 50 Relay Bell Switch Mounting Failure."

If you have any questions, please advise.

Very truly yours,

G. D. McLendon

GDMcL/LLB/ncd

Attachment

cc: 1) Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 15 copies of report)

2) Director
Office of Management
Information & Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 1 copy of report)

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LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

Interim Report of
Significant Construction Deficiency No. 45

AKR 50 RELAY BELL SWITCH MOUNTING FAILURE

Reviewed by _____ 2/9/82
R. J. Milhiser - Site Manager — Date

Reviewed by _____ 2/9/82
J. L. Wills - Project Superintendent — Date

Reviewed by _____ 2-9-82
J. Hart - Project Licensing Engineer — Date

Reviewed by _____ for W. YAEGER 2/9/82
W. Yaeger - Sr. Resident Engineer — Date

Reviewed by _____ 2-9-82
J. Gutierrez - Q. A. Site Supervisor — Date

February 8, 1982

INTERIM REPORT
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 45
"AKR 50 RELAY BELL SWITCH MOUNTING FAILURE"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). Loose mounting screws have been found in bell alarm switches. The switches have separated from the mounting device and certain switches have been broken. This problem is considered reportable under the requirements of 10CFR50.55(e). To the best of our knowledge, it has not been identified to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION

On November 25, 1981, the mounting screws for a number of both safety-related and non-safety-related bell alarm switches attached to General Electric AKR 50 breakers were found to be loose or missing. In some cases, switches were broken as a result of loose screws. This device is used to give a remote (Control Room) indication of the breaker having tripped open through the action of one of its automatic protection devices. The bell alarm switch is wired in series with the breaker closing circuit. If the contacts on this switch fail in the open position, this would prevent the breaker from closing upon receipt of a close signal. Safety-related circuits would possibly remain de-energized, thereby disabling safety equipment. This condition has been documented on Nonconformance Report W3-3318.

SAFETY IMPLICATIONS

Failure of the subject switches would result in a loss of control of the affected breakers, which are installed in 480V redundant Class 1E circuits. Thus, the safety-related equipment served by these branch feeders will not be available when called for. This represents the violation of requirements in GDC 17 of 10CFR50 which are further stipulated in Regulatory Guides 1.32 and 1.53. Therefore, the subject switches, if left uncorrected, would represent a safety hazard to the plant.

CORRECTIVE ACTION

The vendor, General Electric, has provided corrective action to prevent the bell alarm switch mounting screws from backing out. It consists of applying RTV over the bolt head and surrounding surfaces after having first tightened the bolts. Replacement switches for those that were broken have been ordered. No shipping data is available at this time. Due to the fact that the majority of these devices are turned over and energized, there is a problem of coordinating repair/replacement with the Startup and Test Group. In view of this, we estimate corrective action completion and submittal of a Final Report to the USNRC on or before May 28, 1982.

LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

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Significant Construction Deficiency No. 45

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