



LOUISIANA
POWER & LIGHT

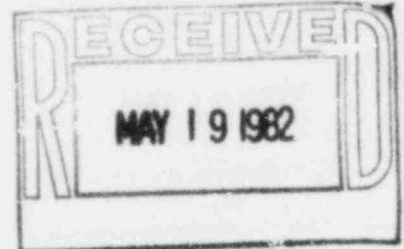
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May 13, 1982

G. D. McLENDON
Senior Vice President

W3K-82-0274
Q-3-A35.07.53

Mr. John T. Collins, Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive
Arlington, Texas 76012



SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Interim Report of Significant Construction Deficiency No. 53
"Possible Failure of General Electric Type HFA Relays"

Reference: Telecon - R. Bennett (LP&L) to L. Martin (NRC) on 4/21/82

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. 53, "Possible Failure of General Electric Type HFA Relays."

If you have any questions, please advise.

Very truly yours,

G. D. McLendon

GDMcL/LLB/grf

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 and 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. 53

"POSSIBLE FAILURE OF GENERAL ELECTRIC TYPE HFA RELAYS"

Reviewed by R. J. Milneer 5/12/82
R. J. Milneer - Site Manager Date

Reviewed by J. V. Wills 5/12/82
J. V. Wills - Project Superintendent Date

Reviewed by P. B. Constable for J. Hart 5-12-82
J. Hart - Project Licensing Engineer Date

Reviewed by W. Yaeger 5-12-82
W. Yaeger - Sr. Resident Engineer Date

Reviewed by J. Gutierrez 5-12-82
J. Gutierrez - Q. A. Site Supervisor Date

May 11, 1982

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 53
"POSSIBLE FAILURE OF GENERAL ELECTRIC TYPE HFA RELAYS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a defect with General Electric (GE) Type HFA relays. The defect consists of cracked coil spools which could prevent proper relay operation in Class 1E switchgear. This problem is considered reportable under the requirements of 10CFR50.55(e). This problem has been identified by GE to the Nuclear Regulatory Commission under the requirements of 10CFR21.

DESCRIPTION

The defect associated with the subject relays is cracked lexan coil spools. The coil spools are fabricated of either black or clear lexan, a polycarbonate material that is susceptible to surface cracking when exposed to hydrocarbons. Such surface cracking could ultimately deteriorate to such a degree that desired contact actions in response to energization or deenergization of the relay could be impeded.

GE Type HFA relays are installed in Class 1E power distribution equipment. In the event cracked coil insulation becomes lodged between relay contacts, the closing circuits of 4160 volt switchgear breakers would be disabled.

SAFETY IMPLICATIONS

As described above, the defective relays in 4160 volt Class 1E switchgear, if left uncorrected, could result in failure of essential safety-related equipment to operate when required. This violates the intent of GDC 17 of 10CFR50 Appendix A and therefore is considered reportable.

CORRECTIVE ACTION

Per GE letter SA 721-PSM-152.2 dated 11/20/80, corrective action recommendations included replacement of defective relays with Century Series HFA relays of equivalent function. (See detailed breakdown on Attachment A.) The Century Series family of relays has been qualified for Class 1E nuclear application per IEEE 323-1974. It is estimated that corrective action will be completed by September 30, 1982, at which time a Final Report will be submitted to the USNRC.

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 53
"POSSIBLE FAILURE OF GENERAL ELECTRIC TYPE HFA RELAYS"

ATTACHMENT A

HFA RELAYS TO BE REPLACED OR REPAIRED

6.9 KV Non Class 1E Switchgear

3A1	11 relays
3B1	11 relays

4.16 KV Non Class 1E Switchgear

3A2	9 relays
3B2	8 relays
3A4	2 relays
3B4	2 relays

4.16 KV Class 1E Switchgear

3A3	15 relays
3B3	15 relays
3AB3	9 relays

480 Volt Class 1E Switchgear

3A31	12 relays
3B31	12 relays
3AB31	8 relays
3A32	5 relays
3B32	5 relays

480 Volt Non Class 1E Swigchgear

3A21	5 relays
3B21	3 relays
3A22	2 relays
3B22	2 relays

480 Volt Class 1E MCC

3A312	1 relay
3B312	1 relay
3A313	1 relay
3B313	1 relay
3A314	1 relay
3B314	1 relay