



LOUISIANA
POWER & LIGHT

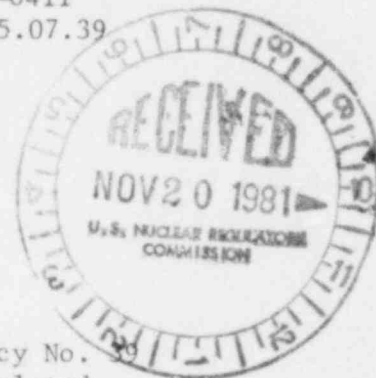
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P. O. BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

November 13, 1981

D. L. ASWELL
Vice President-Power Production

W3K-81-0411
Q-3-A35.07.39

Mr. K. V. Seyfrit, Director, Region IV
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
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.
"Fire Damage in RCB to Main Steam Line and Safety Related
Cables"

Reference: Telcon - R. Bennett (LP&L) to R. Stewart (NRC) on 10/13/81

Dear Mr. Seyfrit:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Interim Report of Significant Construction Deficiency No. 39, "Fire Damage in RCB to Main Steam Line and Safety Related Cables."

If you have any questions, please advise.

Very truly yours,

D. L. Aswell

DLA/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. 39

Fire Damage in RCB to Main Steam Line and Safety Related Cables

Reviewed by *R. J. Milner* 11/12/81
R. J. Milner - Site Manager Date

Reviewed by *J. L. Wills* 11/12/81
J. L. Wills - Project Superintendent Date

Reviewed by *J. Hart* 11-12-81
J. Hart - Project Licensing Engineer Date

Reviewed by *J. Gutierrez* 11-12-81
J. Gutierrez - Q. A. Site Supervisor Date

Reviewed by *W. Jaeger* 11/12/81
W. Jaeger - Sr. Resident Engineer Date

November 12, 1981

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 39
FIRE DAMAGE IN RCB TO MAIN STEAM LINE AND SAFETY RELATED CABLES

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a fire which occurred in Louisiana Power & Light Company's Waterford SES #3 Reactor Containment Building (RCB) in the main steam line penetration area on elevation +46. The fire affected electrical cables, main steam line, and associated pipe supports and restraints which were exposed to flames of an undetermined temperature for a period of approximately one hour and ten minutes. This problem is considered reportable under the requirements of 10CFR50.55(e). This problem has not been identified to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION

On October 11, 1981, at 5:23 a.m., a fire was discovered in the RCB, elevation +46, in the main steam line penetration area. Investigations to determine the cause of the fire have not positively established the cause. The items found to be on fire were twenty-two (22) 6" x 8" x 3' oak timbers which were being used as dunnage for the main steam line. The local fire department was called at 5:25 a.m. and arrived on site at 5:50 a.m. In the meantime, site personnel attempted to extinguish the flames with the use of available extinguishers and by removing the burning timbers from the immediate area of the main steam line. The items sustaining obvious damage include some safety and non-safety related electrical cables. Presently, Ebasco Services, Inc., is coordinating tests to determine whether or not metallurgical damage occurred to the main steam line and its associated supports, restraints, and accessories.

SAFETY IMPLICATIONS

A safety evaluation as to the possible degradation of the main steam line will be issued upon completion of Materials Application's evaluation of the metallurgical tests.

The following is a safety evaluation for the electrical cable.

If the cable insulation has been degraded, there is the possibility that during an accident, the cables will fail to carry signals for safety grade instrumentation and/or control. Thus, several safety systems could become degraded and not be able to carry out their safety function. Therefore, if these cables were not replaced, the safety of the plant would be affected.

CORRECTIVE ACTION

Immediately following the fire, the above described area was secured and placed off limits to all personnel with the exception of Security and Safety personnel pending an investigation. On October 16, 1981, Ebasco Quality Assurance personnel were permitted to enter the area. On that date, Nonconformance Report W3-3093 was initiated and is still presently under evaluation.

Corrective action has been initiated in the following areas:

1. In order to prevent recurrence of similar incidents to the extent feasible, all wood being used throughout the plant island has been replaced with approved fire retardant material.
2. All safety-related cables on the affected trays are being replaced with new qualified cables regardless of whether or not visible damage is observed.
3. Non-Safety related cables with only superficial charring of jacket may be repaired if no detectable insulation brittleness has occurred. To assure satisfactory performance of the cable, dielectric tests are being conducted. If these test results are unsatisfactory, the cable will be replaced.
4. Whole cables, or parts of cables, without visual damage may be re-used based on a case-by-case study, outside the containment for non class 1E equipment functions.
5. The corrective action to be taken on the main steam line pipe supports and restraints is indeterminate at this time pending completion of the evaluation of metallurgical tests.

As described above, the extent of corrective action is undetermined. Therefore, an Interim Status Report will be submitted on or before February 26, 1982.

LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

Interim Report of
Significant Construction Deficiency No. 39

Fire Damage in RCB to Main Steam Line and Safety Related Cables

Reviewed by *R. J. Milhiser* 11/12/81
R. J. Milhiser - Site Manager Date

Reviewed by *J. L. Wills* 11/12/81
J. L. Wills - Project Superintendent Date

Reviewed by *J. Hart* 11-12-81
J. Hart - Project Licensing Engineer Date

Reviewed by *J. Gutierrez* 11-12-81
J. Gutierrez - Q. A. Site Supervisor Date

Reviewed by *W. Yaeger* 11/12/81
W. Yaeger - Sr. Resident Engineer Date

November 12, 1981

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