



LOUISIANA
POWER & LIGHT

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July 31, 1981

D. L. ASWELL
Vice President-Power Production

W3K-81- 0277
Q-3-A35.07.22
Q-3-A35.02.01

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
Final Report of Significant Construction Deficiency No. 22
"Inadequate Electrical Insulation on Ex-Core Neutron Flux Detectors"

Reference: LP&L Letter to USNRC W3K-81-0105 dated March 6, 1981

Dear Mr. Seyfrit:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 22, "Inadequate Electrical Insulation on Ex-Core Neutron Flux Detectors."

If you have any questions, please advise.

Very truly yours,

D. L. Aswell

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

Final Report of
Significant Construction Deficiency No. 22

Inadequate Electrical Insulation on Ex-Core Neutron Flux Detectors

Reviewed by

R. J. Milhiser
R. J. Milhiser - Site Manager

7/29/81
Date

Reviewed by

J. L. Wills
J. L. Wills - Project Superintendent

7/29/81
Date

Reviewed by

J. Hart
for J. Hart - Project Licensing Engineer

7-29-81
Date

Reviewed by

R. A. Hartnett
for R. A. Hartnett - Q. A. Site Supervisor

7/30/81
Date

July 29, 1981

FINAL REPORT
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 22
"INADEQUATE ELECTRICAL INSULATION ON EX-CORE NEUTRON FLUX DETECTORS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes deficiencies in the electrical insulation of the Ex-Core Neutron Flux Detectors. 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

Combustion Engineering Incorporated (C.E.) notified the Ebasco Site Manager, through letter No. C-CS-9270-263 dated 12/24/80, that the present insulation between the Ex-Core Detector and the holder assembly (Astroquartz) is inadequate to maintain proper electrical insulation over the life of the detector and that the insulation will be replaced by a more durable material (Refrasil). The removal of the insulation and the rewrap and subsequent testing of the Refrasil insulation was performed in accordance with approved Combustion Engineering procedures.

SAFETY IMPLICATIONS

Based on the information submitted, Licensing has determined that this condition is a reportable incident because if the insulation had not been replaced, electrical contact could develop between the detector and the holder assembly. This could lead to performance degradation and/or total loss of the detector. Since these detectors are used as input to the Reactor Protective System (RPS) to initiate Engineered Safety Features (ESF) if off-normal conditions are detected, their uncompromised operation is required. Therefore, the presence of inadequate insulation could result in a degradation of safety-related systems.

CORRECTIVE ACTION

Completion of repairs was accomplished on July 20, 1981, and performed in accordance with Combustion Engineering Procedure P9270-105W. The repairs were conducted at the Waterford 3 Site and were inspected and documented by Combustion Engineering as required by their QA/QC Program.