



Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562  
May 26, 1983

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USNRC REGION II  
ATLANTA, GEORGIA

NRC-76

Mr. James P. O'Reilly  
United States Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Northwest (Suite 3100)  
Atlanta, Georgia 30303

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986-90 - 900,000 KW - UNITS 1 & 2  
AUXILIARY RELAY CABINETS, PURCHASE ORDER NY-435246,  
ITEM 105

Dear Mr. O'Reilly:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) on April 28, 1983. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by July 29, 1983.

Thank you for your consideration in this matter.

Yours very truly,

R. M. Parsons  
Project General Manager  
Shearon Harris Nuclear Power Plant

RMP/sh

Attachment

cc: Mr. G. Maxwell (NRC-SHNPP)  
Mr. R. Prevatte (NRC-SHNPP)  
Mr. V. Stello (NRC)

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CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT

AUXILIARY RELAY CABINETS

ITEM 105

MAY 25, 1983

REPORTABLE UNDER 10CFR50.55(e)

SUBJECT: Shearon Harris Nuclear Power Plant, Unit 1, 10CFR50.55(e)  
reportable deficiency in auxiliary relay cabinets  
supplied under Purchase Order NY-435246.

ITEM: Structural Welding

SUPPLIED BY: Systems Control Corporation, Iron Mountain, Michigan

NATURE OF DEFICIENCY: The subject Unit 1 equipment has been received at the site.

Weld deficiencies were noted when compared to the vendor's welding criteria.

DATE PROBLEM OCCURRED: The problem was identified during a CP&L, vendor, and Ebasco meeting/inspection at the site on October 21, 1982.

DATE PROBLEM REPORTED: On November 1, 1982, CP&L (N. J. Chiangi) notified the NRC (A. Hardin) that this item was potentially reportable under 10CFR50.55(e) but not 10CFR Part 21. On November 30, 1982, CP&L (R. M. Parsons) notified the NRC (J. P. O'Reilly) that this item was, after further evaluation, potentially reportable under 10CFR21 also. More recent evaluation has determined that since CP&L QA did not accept the equipment through our QA program, it is potentially reportable only under 10CFR50.55(e). On April 28, 1983 CP&L (N. J. Chiangi) notified the NRC (A. Hardin) that this item is reportable.

SCOPE OF PROBLEM: The deficiency involves the following relay cabinets supplied under this purchase order:

1A-SA, 1B-SB, 2A-SA, 2B-SB, 3A-SA, 3B-SB, 4A-SA, 4B-SB, 19A-SA, 19B-SB.

SAFETY IMPLICATIONS: Seismic qualification of the cabinets is required to assure structural integrity during a seismic event. Safety-related components are located in the cabinets; thus, structural failure would jeopardize operation of safety-related equipment.

REASONS DEFICIENCY IS REPORTABLE: The cabinets were inspected on site. HPES evaluated these defects and identified 16 as being potentially significant to the structural integrity of the equipment pertaining to seismic qualification.

CORRECTIVE  
ACTION:

1. The vendor has supplied revised drawings with critical welds identified.
2. The vendor has done a seismic analysis (shake test) to determine structural integrity of the cabinets 1&4A-SA and 1&4B-SE as built.

The report of this analysis has been received and reviewed. Based on this report and testing and HPES evaluation of apparent weld deficiencies the cabinets are judged acceptable and seismically qualified.

3. HPES has issued FCR-AS-2919 to correct apparent deficiencies identified by HPES.
4. HPES has requested the vendor to evaluate the deficiencies as identified by the DDR and the HPES analysis. HPES letter to the vendor is HO-83165.

FINAL  
REPORT:

A follow-up report will be issued by July 29, 1983, regarding vendor analysis. If the vendor analysis concurs with HPES evaluation, the report will be final.