

# CP&L

Carolina Power & Light Company

P.O. Box 101, New Hill, N.C. 27562  
July 13, 1984

Mr. James P. O'Reilly  
United States Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Northwest (Suite 2900)  
Atlanta, Georgia 30323

NRC-238

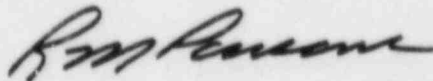
CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986 - 900,000 KW - UNIT 1  
SEISMIC RESTRAINT STRUCTURES, ITEM 160

Dear Mr. O'Reilly:

Attached is our second interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) on March 6, 1984. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by March 31, 1985.

Thank you for your consideration in this matter.

Yours very truly,



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

RMP/jam

Attachment

cc: Messrs. G. Maxwell/R. Prevatte (NRC-SHNPP)  
Mr. R. C. DeYoung (NRC)

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CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

SECOND INTERIM REPORT

SEISMIC RESTRAINT STRUCTURES  
ITEM 160

JULY 13, 1984

REPORTABLE UNDER 10CFR50.55(e)

SUBJECT: 10CFR50.55(e) Reportable Item, Shearon Harris Nuclear Power Plant, Unit 1. Deficient shop welds on seismic restraint structures received from Pittsburgh Bridge and Iron (PBI) Industries.

ITEM: Seismic restraint structures supplied on Purchase Order NY-435196.

SUPPLIED BY: Pittsburgh Bridge and Iron Industries, Rochester, Pennsylvania

NATURE OF DEFICIENCY:

1. Undersized welds and missing welds
2. Cosmetic weld defects
3. Base metal damage
4. Incorrect weld symbols and welds not per design

DATE PROBLEM OCCURRED: Weld defects resulted during the fabrication of these items in 1979. However, the problems were not identified until January 26, 1984 when the frames received an on-site primary inspection of the shop welds.

DATE PROBLEM REPORTED: On March 6, 1984, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that the February 9, 1984 potentially reportable item (Item 160) was reportable per the provisions of 10CFR50.55(e).

SCOPE OF PROBLEM: In our first interim report, fifty (50) seismic restraint structures, which were fabricated by PBI Industries for CP&L use on Shearon Harris Nuclear Power Plant, Unit 1, were reported. Since that time, further investigation has revealed that the remaining PBI restraint structures are now suspect.

SAFETY IMPLICATIONS: Deficient shop welds could cause a safety-related restraint structure to fail under seismic conditions. As a result, if not corrected, they could adversely affect the safe operation of this facility.

REASON DEFICIENCY  
IS REPORTABLE:

The number of deficiencies represent a significant condition which would require extensive evaluation for reportability. The item represents a breakdown in the PBI and Ebasco QA programs, which allowed structures to be shipped with welds which were not in accordance with design criteria. Therefore, the item is reportable under 10CFR50.55(e).

CORRECTIVE ACTION:

QC weld inspection of PBI restraint structure shop welds is being performed to identify those welds which will require disposition. Welds which are found not to meet the acceptance criteria of Ebasco Drawing CAR-2165-A003 R5 will be reworked or waived per engineering evaluation.

FINAL REPORT:

A final report will be issued once the corrective actions described above have been completed. It is currently projected that the final report will be submitted by March 31, 1985.