

CP&L

Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562
December 5, 1984

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

NRC-301

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
CONTAINMENT PLATFORM STEEL -
WELD DEFICIENCIES, ITEM 192

Dear Mr. O'Reilly:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10CFR 50.55(e) on November 9, 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 May 31, 1985.

Thank you for your consideration in this matter.

Yours very truly,



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

RMP/rt

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

FIRST INTERIM REPORT

CONTAINMENT PLATFORM STEEL
WELD DEFICIENCIES

ITEM NO. 192

DECEMBER 5, 1984

REPORTABLE UNDER 10CFR50.55(e)

SUBJECT: Shearon Harris Nuclear Power Plant, Unit No. 1, 10CFR50.55(e) reportable deficiency. Field welds on Reactor Containment Building platform steel which were previously accepted by QC inspectors have been determined to be unacceptable, due primarily to undersized welds.

ITEM: Weld deficiencies on field welded connections on platform steel in the Reactor Containment Building at elevations 236', 261' and 286'.

SUPPLIED BY: Not a vendor related deficiency.

NATURE OF DEFICIENCY: Approximately one hundred-seven (107) completed field welded joints previously accepted by QC inspectors were later determined to be rejectable. The primary deficiency noted on these joints was undersized fillet welds, the majority of which were 1/16" under the size required by the drawing for the entire weld length.

DATE PROBLEM OCCURRED: These rejectable welds were originally accepted during the time period of April 1980 to July 1982.

DATE PROBLEM REPORTED: On November 9, 1984, CP&L (Mr. Kumar Hate') notified the NRC (Mr. Dave Verrelli) that this item was reportable per the provisions of 10CFR50.55(e).

SCOPE OF PROBLEM: The deficiencies affect three(3) Reactor Containment Building platforms (elevations 236', 261' and 286').

SAFETY IMPLICATION: The full impact of the safety implications of this item has not been evaluated. Engineering has evaluated the connections in an effort to provide a generic basis for acceptance of the welds. Connections were approached from the standpoint of member capacity, clip angle capacity and embed capacity in an attempt to reduce the weld size required by design. Primary concern was given to a full capacity connection which would allow the beam to handle its ultimate design load.

REASON DEFICIENCY IS REPORTABLE: If left uncorrected, some of the connections on the platform steel could fail under ultimate design load.

CORRECTIVE ACTION: Identified weld deficiencies will be repaired to meet original design requirements where the weld is accessible. Welds which are inaccessible for repair will be reviewed by engineering on a case by case basis for proper disposition.

**CORRECTIVE
ACTION (CONT'D):**

Due to the span of time and the number of inspectors involved, a specific cause cannot be determined. To preclude future recurrence, we conduct weekly weld inspector training classes on procedures and specifications. Whenever a particular type of deficiency is identified as in the case in question, specific additional training is given to the current inspector force.

FINAL REPORT:

Repair work has been initiated to correct the noted deficiencies. Due to the extent of the required repairs, it is anticipated that these repairs and engineering evaluations, where required, will be complete by early May, 1985. A final report is projected to be submitted by May 31, 1985.