



Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562
April 6, 1984

Mr. James P. O'Reilly
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 2900)
Atlanta, Georgia 30303

NRC-207

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
UNVERIFIED ANCHOR BOLT MATERIAL TYPE - ITEM 131

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 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 November 6, 1984.

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: 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

INTERIM REPORT

**UNVERIFIED ANCHOR BOLT MATERIAL TYPE
ITEM 131**

April 6, 1984

REPORTABLE UNDER 10CFR50.556(e)

SUBJECT: Shearon Harris Nuclear Power Plant, Unit 1, 10CFR50.55(e), reportable deficiency. Anchor Bolt Identification/Installation.

ITEM: Anchor bolt material type in the Power Block was not verified by Construction Inspection.

SUPPLIED BY: Not a supplier-related deficiency.

NATURE OF DEFICIENCY: Construction Inspection was required to verify anchor bolt type; however, only a dimensional check was made to identify anchor bolts with missing or illegible tags. Since certain anchor bolt types have the same physical dimensions yet different material requirements, low strength bolts could have been substituted for high-strength bolts.

DATE PROBLEM OCCURRED: Prior to April 18, 1983.

DATE PROBLEM REPORTED: On May 3, 1983, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that this item was potentially reportable.

On March 6, 1984, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that the item was reportable per the provisions of 10CFR50.55(e).

SCOPE OF PROBLEM: A 14% sample of the safety-related anchor bolts has been tested to determine if material substitution has occurred. This test data indicates that low-strength bolting material has been substituted for high strength in at least one equipment foundation.

SAFETY IMPLICATION: The requirement for high-strength bolting material indicates that design loads are relatively high. Thus, the possibility exists that the allowable loads on low-strength material substituted could be exceeded, and engineering evaluation will be required.

REASON DEFICIENCY IS REPORTABLE: Reportable due to the extensive evaluation and/or rework required.

CORRECTIVE ACTION: The appropriate site technical procedure has been revised to specifically require material identification as part of the anchor bolt inspection.

CORRECTIVE ACTION (Cont'd.):

An increased sampling program has been initiated to determine how extensive the material substitution problem is in anchor bolts which were inspected and accepted prior to identification of the problem.

FINAL REPORT:

A final report will be issued when the evaluation and any necessary rework are complete. We now expect to issue a final report by November 6, 1984.