50-400

CP&L

Carolina Power & Light Company

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P. O. Box 101
New Hill, North Carolina 27562
July 23, 1985

NRC-381

Dr. J. Nelson Grace
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 2900)
Atlanta, Georgia 30323

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

Dear Dr. Grace:

Attached is our final report on the subject item, which was deemed reportable per the provisions of 10CFR50.55(e) on March 6, 1984. Further evaluation has now determined this item to be not reportable per the provisions of 10CFR50.55(e). With this report, Carolina Power & Light Company considers this matter closed.

If you have any questions regarding this matter, please do not hesitate to contact me.

Yours very truly,

R A Watson

R. A. Watson
Vice President
Shearon Harris Nuclear Power Plant

RAW:sae

Attachment

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

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CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

FINAL REPORT

UNVERIFIED ANCHOR BOLT MATERIAL TYPE ITEM 131

July 23, 1985

REPORTED UNDER 10CFR50.55 (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: Random sampling indicated some substitution of bolts. After additional sampling it was determined that a comprehensive test program covering the anchor bolts in question would be required.

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

REASON DEFICIENCY IS NOT REPORTABLE:

Previously, this item was determined to be reportable due to the extensive evaluation and possible rework required. However, the evaluation has now been completed and based on the results this item is now considered not reportable per 10CFR50.55(e).

CORRECTIVE ACTION:

The appropriate site technical procedure has been revised to specifically require material identification as part of the anchor bolt inspection. A 100% sampling program was conducted to identify anchor bolt substitutions and to permit engineering evaluation for acceptability or further corrective action. Samples of the anchor bolts (by cutting a section off the bolt) were taken for testing in the materials test lab to determine if the bolts used had the structural properties required. An Engineering evaluation of the test results for the anchor bolts in question has been completed. The anchor bolts evaluated were found to be acceptable as-is.

FINAL REPORT:

Based on the results of the evaluations performed, no additional corrective action is deemed necessary. This item is considered resolved.