50-400

CP&L

Carolina Power & Light Company

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

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

NRC-286

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 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 July 1, 1985.

Thank you for your consideration in this matter.

Yours very truly,

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

RMP/rt

Attachment

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

OFFICIAL COPY

IE21

bcc: Mr. H. R. Banks
Mr. C. S. Bohanan
Mr. H. W. Bowles
Mr. C. Carmichael (2)
Mr. G. S. Cashell
Mr. N. J. Chiangi
Mr. A. B. Cutter
Dr. T. S. Elleman
Ms. S. F. Flynn
Mr. G. L. Forehand
Mr. J. F. Garibaldi (Ebasco)
Mr. J. L. Harness
Mr. P. C. Hopkins
Dr. J. D. E. Jeffries
Mr. I. A. Johnson
Mr. L. I. Loflin
Mr. R. E. Lumsden
Mr. R. L. Mayton, Jr.
Mr. M. A. McDuffie
Mr. S. McManus
Mr. C. H. Moseley, Jr.
Mr. D. L. Nordstrom (LIS)
Mr. R. M. Parsons
Mr. Sheldon D. Smith
Mr. A. C. Tollison
Mr. R. A. Watson
Mr. M. Shannon (Westinghouse)
Mr. J. L. Willis
Mr. T. A. Baxter (Shaw, Pittman, Potts & Trowbridge)
Mr. M. F. Thompson
Mr. S. Hinnant
Mr. J. F. Nevill
File: HI/A-2D
File: H-X-0544

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

SECOND INTERIM REPORT

UNVERIFIED ANCHOR BOLT MATERIAL TYPE ITEM 131

November 5, 1984

REPORTABLE 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 has indicated some substitution of bolts, and after additional sampling it was determined that a comprehensive test program covering all 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 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.):

A 100% sampling program has been initiated 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) are taken for testing in the materials test lab. Each substitution will be identified on a permanent waiver and forwarded to Engineering. Sampling of all accessible bolts in question has been completed and the samples have been forwarded to the materials test lab, where testing is in progress.

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 July 1, 1985.