

# CP&L

Carolina Power & Light Company

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

84 NOV 15 11 17 AM

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

NRC-286

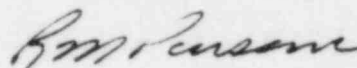
CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986 - 900,000 KW - UNIT 1  
**UNVERIFIED ANCHOR BOLT MATERIAL TYPE - ITEM 131**

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)

8411280521 841105  
PDR ADOCK 05000400  
S PDR

OFFICIAL COPY

IEA7  
||

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.