



Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562
June 14, 1983

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USNRC REGION I
ATLANTA, GEORGIA

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

NRC-86

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986-90 - 900,000 KW - UNITS 1 & 2
BORIC ACID TRANSFER PUMPS, WESTINGHOUSE SHOP ORDER 205,
ITEM 113

Dear Mr. O'Reilly:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21, on May 16, 1983. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by September 1, 1983.

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: Mr. G. Maxwell (NRC-SHNPP)
Mr. R. Prevatte (NRC-SHNPP)
Mr. V. Stello (NRC)

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CAROLINA POWER AND LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT 1 AND 2

INTERIM REPORT

BORIC ACID TRANSFER PUMPS
WESTINGHOUSE SHOP ORDER 205

ITEM 113

JUNE 13, 1983

REPORTABLE UNDER 10CFR50.55(e)

REPORTABLE UNDER 10CFR21

SUBJECT: SHNPP Units 1 and 2 Boric Acid Transfer Pumps purchased under NSSS contract with Westinghouse, NY-435002, Shop Order 205.

ITEM: Unidentified bolting material and undersize welds on the support plates.

SUPPLIED
BY: Crane Company, Chempump Division, Warrington, Pennsylvania.

NATURE OF
DEFICIENCY: (i) The suppliers' seismic shock analysis report assumed SAE Grade 5 bolting (minimum) to be used on the pump support structure. However, this could not be confirmed, since no certificate of compliance was available at that time nor was identification available on the bolt head. At the time of procurement, bolt head identification was not required.

(ii) The suppliers' seismic shock analysis report assumed a nugget size of 0.190" (minimum) on the gusset stiffener spot welds. On other similar chempumps, the weld nugget size (0.150") was less than that assumed in the report. While these particular spot weld nugget sizes have not actually been inspected, (destructive test required), the same potential deficiency exists as the other chempumps since the weld was completed using a spot weld machine.

DATE PROBLEM
OCCURRED: Upon completion of inspection ((i) above), the deficiencies were noted on Deficiency and Disposition Report DDR-1248, dated December 29, 1982.

DATE PROBLEM
REPORTED: January 13, 1983, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that this item is potentially reportable under 10CFR50.55(e) and 10CFR21.

February 8, 1983, CP&L (Mr. R. M. Parsons) submitted interim notification (NRC-42) to the NRC (Mr. James P. O'Reilly, Region II) on this item.

May 16, 1983, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that this item was reportable under 10CFR50.55(e) and 10CFR21.

SCOPE OF
PROBLEM: The deficiencies involve two Unit 1 and two Unit 2 Boric Acid Transfer Pumps.

SAFETY
IMPLICATIONS: The Boric Acid Transfer Pumps are safety Class 3 and designated as "active" pumps. That is, these pumps are required to operate for safe shutdown purposes. Since the pump support structure (bolting and spot welds) contain deficiencies, there is no assurance that the pumps structural supports will remain in sound condition during a seismic event, and could therefore make the pumps inactive.

REASONS
DEFICIENCIES
REPORTABLE:

This item is reportable due to lack of specific information from Westinghouse in determining the effects of the deficiencies. The deficiencies described may affect the ability of safety related equipment to perform their intended function and thus mitigate the consequences of an accident.

CORRECTIVE
ACTION:

(i) The pump support structure bolting will be replaced by bolting that is identifiable and meets or exceeds SAE Grade 5 minimum strength requirements. Purchase orders for these bolts and associated washers have been placed.

(ii) The gusset stiffener spot welds will be supplemented by fillet welds along each leg. Weld Data Reports have been prepared to accomplish this.

FINAL REPORT: Completion of the above corrective action will be achieved by September 1, 1983.