

CP&L

Carolina Power & Light Company

P. O. Box 101, New Hill, N. C.
March 31, 1983

USNRC REGION II
ATLANTA, GEORGIA

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50-401

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Mr. James P. O'Reilly
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 3100)
Atlanta, Georgia 30303

NRC-50

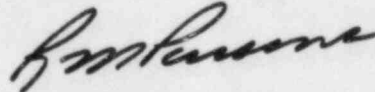
CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986-90 - 900,000 KW - UNITS 1 & 2
DEFECTIVE WELDS ON 480V SWITCHGEAR,
PURCHASE ORDER NY-435171, ITEM 104

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 4, 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 June 3, 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. V. Stello (NRC)

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CAROLINA POWER AND LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT

DEFECTIVE WELDS ON 480V SWITCHGEAR
ITEM 104

MARCH 31, 1983

REPORTABLE UNDER 10CFR50.55(e)

SUBJECT: Shearon Harris Nuclear Power Plant Unit 1. 10CFR50.55(e) reportable deficiency: Welding for 480V Class 1E switchgear and seismically-designed 480V Nonclass 1E switchgear supplied under Purchase Order NY-435171 from Brown-Boveri Electric Co.

ITEM: Welding in the transformer sections of the seismically-designed Nonclass 1E switchgear and the Class 1E switchgear.

SUPPLIED BY: Brown-Boveri Electric Company, Chalfont, PA.

NATURE OF DEFICIENCY: From April 1982 through July 1982, Brown-Boveri Electric Company shipped 480V switchgear to the Shearon Harris site on Purchase Order NY-435171. At CP&L's request, representatives from Brown-Boveri came to the site in late September 1982 with structural shop drawings so that CP&L QA would have a basis for an inspection of welds.

The inspection revealed welding deficiencies (one or more of the following deficiencies: undersized welds, undercut, incomplete fusion, overlap and craters) in the air terminal chambers, transformers, and a current limiting reactor. Analysis of the welds by Brown-Boveri Engineering determined that the welding deficiencies in the air terminal chambers and the current limiting reactor were not serious in nature and that the structural integrity of the equipment would not be affected.

DATE PROBLEM OCCURRED: Refer to section above.

DATE PROBLEM REPORTED: October 14, 1982, CP&L (N. J. Chiangi) notified the NRC (C. Hehl) that this item was potentially reportable under 10CFR50.55(e).

November 12, 1983, CP&L (R. M. Parsons) notified the NRC (Mr. O'Reilly) via memo, Letter No. NRC-24, this item was potentially reportable per 10CFR, Part 21, as well as 10CFR50.55(e)

January 7, 1983, CP&L (R. M. Parsons) notified the NRC (Mr. O'Reilly) via memo, Letter No. NRC-32, this item was incorrectly identified as being potentially reportable per 10CFR, Part 21 and was only potentially reportable per 10CFR50.55.(e).

March 4, 1983, CP&L (N. J. Chiangi) notified the NRC (A. Hardin) that this item was reportable under 10CFR50.55(e).

SCOPE OF PROBLEM: The deficiencies involve four Unit 1 Class 1E 480V switchgear transformers and two Nonclass 1E seismically-designed 480V switchgear transformers.

SAFETY

IMPLICATION:

Seismic qualification of the Class 1E switchgear is required so that power to safety-related loads is maintained during a seismic event. Due to the proximity of Nonclass 1E switchgear to Class 1E equipment, seismic qualification (design) of the Nonclass 1E switchgear is required in order to assure that no switchgear component will dislodge and possibly damage safety-related components during a seismic event.

REASON

DEFICIENCY

IS REPORTABLE:

Failure of the suppliers' QA Program to control the welding on the switchgear had resulted in switchgear being shipped to the site which deviated from the suppliers' own welding inspection criteria and structural drawings upon which the switchgear qualification is based.

CORRECTIVE

ACTION:

Welds that were defective on the Class 1E 480V switchgear transformer (Unit 24-27941) have been repaired by Brown-Boveri and inspected by CP&L's QA section. Welding deficiencies on this and other transformers were determined to be acceptable as long as conditions are modeled in the upcoming seismic test.

FINAL REPORT:

A final report is projected for June 3, 1983, contingent upon the Seismic Test Report on the 480V switchgear transformers. This test report is due May, 1983.