



Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562  
March 16, 1983

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NRC REGION II  
ATLANTA, GEORGIA  
AID: 10

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

NRC-47

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986-90 - 900,000 KW - UNITS 1 & 2  
BASE METAL DEFECT IN A SPOOL PIECE SUPPLIED BY  
SOUTHWEST FABRICATING AND WELDING COMPANY,  
PURCHASE ORDER NY-435035 - ITEM 115

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 February 15, 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 April 29, 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 & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT

ITEM 115

BASE METAL DEFECT IN A SPOOL  
PIECE SUPPLIED BY SOUTHWEST FABRICATING & WELDING COMPANY

MARCH 15, 1983

REPORTABLE UNDER 10CFR50.55(e)  
REPORTABLE UNDER 10CFR21

SUBJECT: Shearon Harris Nuclear Power Plant/Unit No. 1 10CFR50.55(e) and 10CFR Part 21, reportable deficiency in base metal defect, minimum wall thickness violation purchased under Purchase Order NY-435035.

ITEM: Deficiency and Disposition Report "DDR No. 1272." Spool piece No. 1-CX-65-4 was found to have base metal defects. Area has been buffed to remove defect causing minimum wall violation.

SUPPLIED BY: Southwest Fabrication Company, Houston, Texas.

NATURE OF DEFICIENCY: Pipe was found to violate minimum wall thickness per ASME code requirements and site welding procedures.

PROBLEM OCCURRED: Refer to section above.

DATE PROBLEM REPORTED: On January 26, 1983, N. J. Chiangi notified the NRC (A. Hardin) that this item was potentially reportable under 10CFR50.55(e) and 10CFR 21.

On February 15, 1983, N. J. Chiangi notified NRC (D. Verelli) that this item was reportable under 10CFR50.55(e) and 10CFR 21.

SCOPE OF PROBLEM: The deficiency involves the safety related chilled water piping.

SAFETY IMPLICATIONS: Loss of safety related chilled water, could potentially jeopardize the environmental qualification operating temperature of certain safety components, and the environment envelop of the main control room.

REASONS  
DEFICIENCY IS  
REPORTABLE:

Failure of the piping could result in reduction of cooling to safety train B AHU's. No means of automatic isolation in vicinity of deficiency, therefore, all "B" Train is sacrificed. Break would result in loss of all safety train B AHU's. Incorporating additional single failure criterion - worst case is loss of safety train "A" chilled water. With loss of all safety related chilled water the environmental qualification of essential components could potentially be jeopardized due to exceeding of qualified operating temperature.

CORRECTIVE  
ACTION:

The vendor (Southwest Fabrication) has been notified of this condition via telephone and directed to take corrective action and to advise in writing what corrective action and preventive measures are being taken.

Spool piece as described will be replaced with an acceptable spool piece.

FINAL  
REPORT:

A final report will be issued once the spool piece has been replaced. It is currently projected that the submittal date will be April 29, 1983.