

CP&L

Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562
September 29, 1983

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

NRC-125

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986-90 - 900,000 KW - UNITS 1 & 2
SHOP WELDING DEFICIENCIES ON SEISMIC CLASS I CABLE TRAY,
CONDUIT, AND HVAC HANGERS, ITEM 77

Dear Mr. O'Reilly:

Attached is our third interim report on the subject item which was deemed reportable per 10CFR50.55(e) and 10CFR, Part 21, on August 2, 1982. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by March 1, 1984.

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

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CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNITS NO. 1 & 2

INTERIM REPORT NO. 3

SHOP WELDING DEFICIENCIES IN SEISMIC CLASS I
CABLE TRAY, CONDUIT AND HVAC HANGERS

ITEM 77

SEPTEMBER 29, 1983

REPORTABLE UNDER 10CFR50.55(e) AND 10CFR, PART 21

SUBJECT: Shearon Harris Nuclear Power Plant/Units No. 1 and 2, 10CFR50.55(e) and 10CFR, Part 21, Reportable Deficiency. Shop welding deficiencies in Seismic Class I cable tray, conduit and HVAC hangers.

ITEM: Shop welding on cable tray, conduit and HVAC hangers is not in accordance with Codes and Standards to which they were procured.

SUPPLIED: Peden Steel Company, Raleigh, N. C.

NATURE OF DEFICIENCY: Shop welds on cable tray, conduit, and HVAC hangers do not meet AWS D1.1 code requirements. Undersize welds, overlap, porosity are examples of the types of deficiencies.

DATE PROBLEM WAS CONFIRMED TO EXIST: March 19, 1982

DATE PROBLEM REPORTED: On April 2, 1982, Mr. L. E. Jones notified the NRC, Region II (Mr. C. Julian), that the item was potentially reportable. On August 2, 1982, Mr. L. E. Jones notified the NRC, Region II (Mr. A. Hardin), that this item was reportable per the provisions of 10CFR50.55(e).

SCOPE OF PROBLEM: A large number of cable tray, conduit and HVAC hangers have been installed and accepted by QA/QC personnel. Cable tray, HVAC duct and conduit have been installed in the hangers. Inspection of shop welds is in progress in the containment, reactor auxiliary and reactor auxiliary - common buildings as well as in the warehouse laydown yards. Deficiencies are being found and repaired.

SAFETY IMPLICATIONS: Cable tray, conduit, and HVAC duct are supported by these hangers. Hangers having unacceptable welding could possibly fail in normal operation or during a seismic event. This in turn could lead to the failure of the items the hangers were supporting. To date, the reinspection has not revealed any problems this severe.

REASON DEFICIENCY IS REPORTABLE: Reportable due to the Quality Assurance Program breakdowns at Peden Steel Company and during Ebasco Vendor QA surveillance activities.

CORRECTIVE ACTION:

Since May 14, 1982, all material fabricated by Peden Steel on A/E purchase orders has been receiving a 100 percent primary welding inspection by CP&L Welding QC personnel prior to shipment. A complete reinspection of all cable tray, conduit and HVAC hangers furnished by Peden Steel is in progress. The total number of hangers concerned is approximately 5,200. To date, approximately 4,200 have been accepted based on reinspection or reinspection and repair. Of the remainder, approximately 550 which have been installed have been inspected but have some welds which are inaccessible for reinspection. These welds are being evaluated by Engineering for acceptance. Approximately 200 are small items such as WT sections without distinct piece numbers which will require inspection and/or evaluation depending on whether they can be located. The remaining 250-300 are being located, and inspected and repaired as necessary.

FINAL REPORT:

A final report will be issued when the evaluations, reinspections and subsequent rework have been completed. The date currently projected for submittal of the final report is March 1, 1984.