CP&L

Carolina Power & Light Company

August 31, 1982

File: SH N-2/18
Item 77

CQAD 82-1480

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

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NOS. 50-400 AND 50-401
SHOP WELDING DEFICIENCIES ON SEISMIC CLASS I
CABLE TRAY, CONDUIT, AND HVAC HANGERS

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 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 December 17, 1982.

Thank you for your consideration in this matter.

Yours very truly,

N. J. Chiangi - Manager
Engineering & Construction
Quality Assurance/Quality Control

NJC/ecc
Attachment

cc: Mr. G. Maxwell W/A
Mr. V. Stello (2) W/A

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

Units No. 1 and 2

INTERIM REPORT

August 27, 1982

Reportable Under 10CFR50.55(e) and 10CFR, Part 21

SHOP WELDING DEFICIENCIES IN SEISMIC CLASS 1 CABLE TRAY, CONDUIT AND HVAC HANGERS

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 1 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 notifieid 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 buidlings 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 would 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 break downs at Peden Steel Company and during Ebasco Vendor QA surveillance activities.

CORRECTIVE ACTION: A complete reinspection of all cable tray, conduit, and HVAC hangers furnished by the vendor is in progress. Hangers in the warehouse yard, as well as those installed, are being reinspected by the vendor QC personnel, discrepancies noted, and repairs made. CP&L Welding QC personnel then do a random sampling of the work and reinspect it. In addition to the reinspection, material fabricated by Peden Steel Company on A/E purchase orders is now receiving a 100 percent primary welding inspection by Carolina Power and Light Welding QC personnel prior to shipping. This began on May 14, 1982.

FINAL REPORT: A final report will be issued once the reinspection and subsequent rework have been completed. It is currently projected that the submittal date will be December 17, 1982.