



Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562
April 12, 1984

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

NRC-210

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
FIRE BARRIERS - TACK WELDS, ITEM 162

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 14, 1984. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by May 31, 1985.

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**

UNIT NO. 1

INTERIM REPORT

**FIRE BARRIERS - TACK WELDS
ITEM 162**

APRIL 12, 1984

REPORTABLE UNDER 10CFR50.55(e)

SUBJECT:

Shearon Harris Nuclear Power Plant, Unit No. 1, 10CFR50.55(e) reportable deficiency. Inadequate Tack Welds in Fire Barrier.

ITEM:

Tack welds are required for structural support of fire barrier panels but were not inspected.

SUPPLIED BY:

Not a supplier-related deficiency.

NATURE OF DEFICIENCY:

Fire barrier panels consist basically of a fireproof material applied to both sides of expanded metal, which provides the structure of the panel. The attachment of the panels to the structural steel is by tack welds. Original design did not specify number or location of tack welds; therefore, tack welds were not considered structural and inspection was not required. In some areas where the fireproofing material was removed for reinspection, tack welds were found to have broken.

DATE PROBLEM OCCURRED:

Prior to February 1, 1984.

DATE PROBLEM REPORTED:

On February 13, 1984, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that this item was potentially reportable per provisions of 10CFR50.55(e).

On March 14, 1984, CP&L (Mr. N. J. Chiangi) notified the NRC (Mr. A. Hardin) that the item was reportable per 10CFR50.55(e).

SCOPE OF PROBLEM:

All of the fire barrier bottom panels were installed prior to the tack welds being identified as a problem so they are all suspect, and since the fire protective coating has been applied, the tack welds are not accessible for reinspection/rework. The fire barrier panels are located in the Cable Spread Room and Auxiliary Control Panel Room.

SAFETY IMPLICATION:

The fire barrier separates redundant cable trains SA and SB. The tack welds do not affect the fire protection properties of the panels, but the fire barrier is seismically designed, and failure of the tack welds could allow the panels to drop down onto safety-related cable and equipment beneath. Engineering evaluation has determined there is a safety concern for one section of cable tray in the Cable Spread Room, and the panels which are over the Auxiliary Control Panel and a section of cable tray in the Auxiliary Control Panel Room.

**REASON DEFICIENCY
IS REPORTABLE:**

Failure of the tack welds could adversely affect safety-related cable and the Auxiliary Control Panel. The subject tack welds are no longer accessible for inspection.

CORRECTIVE ACTION:

The sections of cable tray where there is a safety concern will be protected by covers. These covers cannot be put in place until all cable has been installed. The installation of all cable tray covers is scheduled for completion by May 31, 1985. The Auxiliary Control Panel will be protected by providing structural support for the section of panel which could potentially damage it. Design approval of this support and its installation is projected to be completed by July 12, 1984.

FINAL REPORT:

A final report will be issued once all the corrective action described above is complete. It is currently projected that a final report will be issued by May 31, 1985.