



Carolina Power & Light Company

P.O. Box 101, New Hill, N.C. 27562
July 11, 1984

Mr. James P. O'Reilly
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 2900)
Atlanta, Georgia 30323

NRC-237

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 our second 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/jam

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

SECOND INTERIM REPORT

FIRE BARRIERS - TACK WELDS
ITEM 162

JULY 11, 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 of this support is complete and installation will be completed in conjunction with other work in the area.

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.