



Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562
December 7, 1983

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

NRC-151

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986-90 - 900,000 KW - UNITS 1 & 2
POTENTIALLY DEFECTIVE ENGINE MOUNTED ELECTRICAL
CABLES OF THE EMERGENCY DIESEL GENERATOR, ITEM 154

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 November 14, 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 February 17, 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 AND LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT NO. 1

POTENTIALLY DEFECTIVE ENGINE MOUNTED ELECTRICAL CABLES
EMERGENCY DIESEL GENERATOR

ITEM 154
(DDR 2209)

DECEMBER 5, 1983

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

SUBJECT: Shearon Harris Nuclear Power Plant, Unit 1.
10CFR50.55(e) and 10CFR21, reportable deficiencies:
Potential defect with engine mounted electrical cable on
the emergency diesel generator engine. Purchase Order
NY-435079.

ITEM: Engine mounted electrical cables of the Emergency Diesel
Generator Sets.

SUPPLIED BY: Transamerica DeLaval, Inc., Oakland, California.

NATURE OF DEFICIENCIES: In September, 1982, Transamerica DeLaval, Inc. notified CP&L of a potential problem with engine mounted electrical cables. These cables are located on the engines of the generator sets; one cable runs from the magnetic pickups to the engine junction boxes. The second cable is the multi-conductor cable which runs from the "on-engine" terminal box to the Woodward governor actuator.

Transamerica DeLaval has determined that the manufacturer's temperature rating for the cable insulation may be exceeded during operation of the diesel generator.

DATE PROBLEM OCCURRED: Refer to section above.

DATE PROBLEM REPORTED: On November 14, 1983, CP&L (N. J. Chiangi) notified the NRC (Mr. A. Hardin) that this item is reportable under provisions 10CFR50.55(e) and 10CFR21.

SCOPE OF PROBLEM: This problem involves two Unit 1 Emergency Diesel Generators.

REASONS DEFICIENCY IS REPORTABLE: The emergency diesel generator sets supply on-site power to safety and essential loads in the event of the loss of both normal on-site and off-site power. Failure of cables involved would result in 1) slower response to load change and load pick-up, and 2) prevent the operation of the emergency "stop" sequence of the engine due to the malfunctioning of the output breaker.

CORRECTIVE
ACTION:

Existing cables are to be replaced by cables sent to CP&L by Vendor.

Replacement cables have been shipped to CP&L for installation in the two engines. This installation is to begin in mid-January, 1984.

FINAL REPORT:

It is currently projected that work on this cable replacement will be complete by February 3, 1984. A final report is expected to be released on February 17, 1984.