



Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562
May 24, 1984

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

NRC-220

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
**SEISMIC QUALIFICATION TEST FAILURE OF STARTING AIR
CHECK VALVES FOR EMERGENCY DIESEL-ENGINE GENERATOR SETS,
ITEM III**

Dear Mr. O'Reilly:

Attached is our fourth interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21, on December 23, 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 June 20, 1984.

Thank you for your consideration in this matter.

Very truly yours,

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

FOURTH INTERIM REPORT

MAY 22, 1984

SEISMIC QUALIFICATION TEST FAILURE OF THE
STARTING AIR CHECK VALVES FOR THE
EMERGENCY DIESEL ENGINE GENERATOR SETS

ITEM 111
(DDR-1255)

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

SUBJECT: Shearon Harris Nuclear Power Plant Unit No. 1
10CFR50.55(e) and 10CFR21 reportable deficiency. Seismic qualification test failure of these starting air check valves for the emergency diesel-engine generator sets.

ITEM: Starting air check valves (vendor Part No. 74046-146, Item 5252) of the starting air system for the emergency diesel-engine generator sets.

SUPPLIED BY: Transamerica DeLaval Inc., Oakland, California under CP&L Purchase Order NY-435079.

NATURE OF DEFICIENCY: In December, 1982, Transamerica DeLaval, Inc., notified CP&L of a potential problem with a starting air check valve. This valve is to be installed in the line between the starting air compressor and the starting air storage tanks. This valve functions to allow the air compressor to charge the storage tank and prevent backflow once the tanks are charged.

During Seismic Qualification Testing, one of the starting air check valves was found to leak. A valve containing a modified disc assembly has since been seismically tested and accepted.

DATE PROBLEM OCCURRED: Refer to section above.

DATE PROBLEM REPORTED: December 23, 1982, CP&L (L. E. Jones) notified the NRC (A. Hardin) that this item is reportable under the provisions of 10CFR50.55(e) and 10CFR21.

SCOPE OF PROBLEM: This problem involves three starting air check valves.

REASONS DEFICIENCY IS REPORTABLE: The emergency diesel-engine 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. Proper operation of the starting air system is necessary to start the diesel engine generators. Improper operation could affect the availability of emergency on-site power.

CORRECTIVE
ACTION:

In February 1984, Transamerica DeLaval, Inc. sent to William Powell Company the three affected valves for modifications. Modified valves are to be returned to CP&L by May 30, 1984.

FINAL REPORT

It is currently projected a final report will be submitted by June 20, 1984.