

# CP&L

Carolina Power & Light Company

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P. O. Box 101, New Hill, N. C. 27562  
August 16, 1984

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

NRC-255


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 111

Dear Mr. O'Reilly:

Attached is our final report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21, on December 23, 1982. With this report, Carolina Power & Light Company considers this matter closed.

If you have any questions regarding this matter, please do not hesitate to contact me.

Very truly yours,



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

FINAL REPORT

AUGUST 17, 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 the 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 were returned to CP&L June 12, 1984. The modified check valves have been installed.