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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-256

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
PRESSURE SENSING LINE IN THE STARTING AIR SYSTEM
FOR EMERGENCY STANDBY DIESEL-GENERATOR SETS,
PURCHASE ORDER NY-435079, ITEM 80

Dear Mr. O'Reilly:

Attached is the final report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e), on April 19, 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.

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

FINAL REPORT

PRESSURE SENSING LINE IN THE STARTING AIR SYSTEM FOR THE EMERGENCY STANDBY DIESEL ENGINE GENERATOR SETS

ITEM 80
(DDR 870)

AUGUST 17, 1984

REPORTABLE UNDER 10CFR50.55(e)

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SUBJECT: Shearon Harris Nuclear Power Plant Unit No. 1 10CFR50.55(e) reportable deficiency concerning a potential problem with the pressure sensing lines in the starting air systems for the Emergency Standby Diesel Engine Generator Sets supplied by Transamerica DeLaval, Inc., under Purchase Order NY-435079.

ITEM: The pressure sensing line between the starting air storage tank manual isolation valve and pressure switch mounted on the starting air compressor for the Transamerica DeLaval, Inc. Standby Diesel Engine Generators: Model No. DS RV-16-4.

SUPPLIED BY: The manual isolation valves, compressors, and air tanks are supplied by Transamerica DeLaval, Inc., Oakland, California. The sensing line is furnished and installed by CP&L in accordance with the design documents generated by Ebasco Services, Inc.

NATURE OF DEFICIENCY: In a letter dated March 24, 1982, Transamerica DeLaval notified CP&L that in the event of a pressure sensing line failure during a seismic event, the starting air pressure could bleed down to 150 psig in a minimum of six minutes. The engine will not automatically start when the starting air pressure is less than 150 psig.

DATE PROBLEM OCCURRED: Refer to section above.

DATE PROBLEM REPORTED: April 19, 1982 - CP&L (N. J. Chiangi) notified the NRC (Region II - C. Julian) that this item was reportable under 10CFR50.55(e). Transamerica DeLaval reported this to the NRC under 10CFR, Part 21 on March 19, 1982.

SCOPE OF PROBLEM: Upon objective review of the design documents, it was determined that this potential problem does not affect the SHNPP diesel generator sets.

SAFETY IMPLICATION: The Emergency Standby Diesel Engine-Generator Sets supply power to the emergency safety features buses in the event of a loss of normal on-site and off-site power sources. The pressure sensing line is Seismic Category I and should not fail during a seismic event.

REASON DEFICIENCY IS REPORTABLE: This item was not reportable since the sensing line is Seismic Category I.

CORRECTIVE ACTION: Transamerica DeLaval had recommended the installation of an 1/8" restrictive orifice between the manual isolation valve and the starting air tank, which would increase the time to reach 150 psig to 53 minutes if the sensing line failed. This orifice will not be installed since the sensing line used at SHNPP is Seismic Category I and should not fail during a seismic event.