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Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562  
April 18, 1983

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

NRC-212

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 our fifth interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e), on April 19, 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 18, 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 & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT NO.5

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

ITEM 80  
(DDR 870)

APRIL 18, 1984

REPORTABLE UNDER 10CFR50.55(e)

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: The potential problem affects the four pressure sensing lines (two per diesel engine).

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. Failure of the pressure sensing line could affect engine availability.

REASON

DEFICIENCY IS  
REPORTABLE:

If left uncorrected, the diesel engines might not start during a pressure sensing line failure and emergency on-site A.C. power would not be available.

CORRECTIVE

ACTION:

Transamerica DeLaval recommends 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 be installed during installation of the diesel-generator.

FINAL REPORT:

The fabrication of the orifice has been delayed due to the inability to find a qualified machine shop willing to bid the purchase requisition. The requisition for this fabrication has been reissued and is scheduled to be completed by May 18, 1984. It is currently projected that the installation will be completed by May 30, 1984. The projected submittal date of a final report is June 18, 1984.