

50-400

05 NOV 18 P12:41 **CP&L**  
Carolina Power & Light Company

SHEARON HARRIS NUCLEAR PROJECT  
P. O. Box 165  
New Hill, North Carolina 27562

NOV 15 1985

NRC-399

File Number: SHF/10-13510E  
Letter Number: MS-850472 (O)

Dr. J. Nelson Grace  
United States Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Northwest (Suite 2900)  
Atlanta, Georgia 30323

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986 - 900,000 KW - UNIT 1  
STANDBY DIESEL GENERATOR - CONTROL PANEL VENTILATION, ITEM 214

Dear Dr. Grace:

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 May 7, 1985. With this report, Carolina Power & Light Company considers this matter closed.

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

Yours very truly,

*R. A. Watson*

R. A. Watson  
Vice President  
Shearon Harris Nuclear Power Plant

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Attachment

cc: Messrs. G. Maxwell (NRC-SHNPP)  
J. M. Taylor (NRC)

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CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

FINAL REPORT

STANDBY DIESEL GENERATOR  
CONTROL PANEL VENTILATION  
(NCR 85-1066)

ITEM 214

NOVEMBER 15, 1985

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

**SUBJECT:** Shearon Harris Nuclear Power Plant - Unit No. 1  
10CFR50.55(e) and 10CFR21 Reportable Deficiency.  
Control Panel Ventilation for Emergency Diesel  
Generator sets supplied by Transamerica Delaval Inc.  
under Purchase Order NY-435079.

**ITEM:** Generator Panels have inadequate ventilation.

**SUPPLIED BY:** Transamerica Delaval Inc., Oakland, California. The  
Generator Control Panels are manufactured by RTE-  
Delta.

**NATURE OF  
DEFICIENCY:** Transamerica Delaval, Inc., (TDI) shipped two diesel  
generator sets to the Shearon Harris site in May and  
June, 1981. On March 12, 1985, CP&L sent a letter to  
TDI questioning the reportability of a design change  
due to an apparent lack of ventilation in the RTE  
Delta generator control panels.

Based upon a preliminary telephone response to this  
letter, NCR 85-1066 was generated. After reviewing  
the available information, CP&L Engineering determined  
that inadequate ventilation was provided for the  
generator control panels. This would result in  
qualified component temperature limits being exceeded  
and possible failure of those components.

**DATE PROBLEM  
OCCURRED:** Refer to section above.

**DATE PROBLEM  
REPORTED** On May 7, 1985, CP&L (N. J. Chiangi) notified the NRC  
(Mr. A. Hardin) that this item was reportable per the  
provisions of 10CFR50.55(e) and 10CFR, Part 21.

**SCOPE OF  
PROBLEM:** The problem involves the two generator control panels  
shipped for Unit 1 under Order No. NY-435079.

**SAFETY IMPLICATION:** The diesel generators supply power to the ESF buses in  
case of a loss of both normal on-site and off-site  
power sources. If key components in the generator  
control panel were to fail, a loss of on-site standby  
power would occur.

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REASON DEFICIENCY  
IS REPORTABLE:

If left uncorrected, failure of the generator control panel would lead to loss of the ability to supply emergency power.

CORRECTIVE ACTION:

Cooling fans supplied by RTE Delta have been installed in the control panels per Field Change Requests M-1729 Rev. 0, E-5147 Rev. 1 and I-2269 Rev. 0. In addition, thermal monitoring during a test run was performed on Panel 1A per the TDI owner's group DR/QR Report for SHNPP which indicated temperatures within the allowable range. With the installation of the referenced cooling fans this item is considered resolved.