



Carolina Power & Light Company

P. O. Box 101, New Hope, NC 27562
February 21, 1985

50-400

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

NRC-325

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
MOTOR STARTER-MECHANICAL VERTICAL
INTERLOCK BINDING, ITEM 204

Dear Dr. Grace:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10CFR 50.55(e) and 10CFR, Part 21 on January 22, 1985. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by April 15, 1985.

Thank you for your consideration in this matter.

Yours very truly,

R. M. Parsons
Project General Manager
Completion Assurance
Shearon Harris Nuclear Power Plant

RMP/sae

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 1

INTERIM REPORT

MECHANICAL INTERLOCK BINDING
NEMA 5/2 SPEED - 1 WINDING STARTER

ITEM 204

FEBRUARY 20, 1985

REPORTABLE UNDER 10CFR 50.55(e) and 10CFR 21

SUBJECT: Shearon Harris Nuclear Power Plant Unit No. 1
10CFR50.55(e) and 10CFR Part 21 Reportable deficiency
involves binding mechanical interlocks on two speed
starters which prevent low speed operation of fan
coolers.

ITEM: 480 V NEMA 5/2 speed - 1 winding starter

SUPPLIED BY: Gould Inc., Westminster, Maryland

NATURE OF
DEFICIENCY: Due to variations in tolerance, the vertical
interlock installed between the tie contactor and the
corresponding starter binds, preventing the full
transfer between high and low speed.

DATE PROBLEM
IDENTIFIED: Shearon Harris received vendor notification of a
potential problem January 7, 1985. HPES verified
that this binding problem existed at Shearon Harris
and evaluated this item as reportable.

DATE PROBLEM
REPORTED: On January 22, 1985, CP&L (Mr. N. J. Chiangi)
notified the NRC (Mr. A. Hardin) that the item was
reportable per the provisions of 10CFR 50.55(e) and
10CFR Part 21.

SCOPE OF
PROBLEM: The problem could occur in any of eight identical
safety-related starters supplied by Gould Inc. under
Ebasco Purchase Order NY-435143.

SAFETY
IMPLICATIONS: When the interlock binds, the associated motor cannot
change speeds. In an attempt to go from high speed
to low speed, this perturbation would prevent
operation of the motor, as the low speed contactor
would be prevented from closing. This would prevent
the motors from performing their safety function of
driving fan cooler units that are needed to provide
de-humidification and air mixing of the containment
atmosphere.

REASON
DEFICIENCIES
ARE
REPORTABLE: The deficiencies are reportable because the
inoperable fan coolers could lead to hydrogen pocket
formation in the containment. This compromises
safety systems and adversely reduces the degree of
protection to public health.

CORRECTIVE

ACTION:

A vendor representative was dispatched to SHNPP to rework the interlock actuator to an improved design developed by Gould Inc.

FINAL REPORT:

The corrective action and verification process required to resolve this item is expected to be completed prior to April 15, 1985. Therefore, it is projected that the final report will be issued at that time.