

CP&L

Carolina Power & Light Company

05 JUL 7 P 3: 13

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

JUL 2 1986

File Number: SHF/10-13510E
Letter Number: HO-860311(O)

NRC-459

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

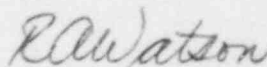
CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - Unit 1
6.9 KV SWITCHGEAR CIRCUIT BREAKERS -
SECONDARY DISCONNECT FINGERS, ITEM 209

Dear Dr. Grace:

Attached is a final report on the subject item, which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21 on March 1, 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
Vice President
Harris Nuclear Project

RAW/lme

Attachment

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

50-400

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT 1

FINAL REPORT

SECONDARY DISCONNECT FINGERS
6.9 KV CIRCUIT BREAKERS

NCR 85-391

ITEM 209

JULY 1, 1986

REPORTABLE UNDER 10 CFR 50.55(e) AND 10CFR PART 21

SUBJECT: Shearon Harris Nuclear Power Plant Unit No. 1
10CFR50.55(e) and 10CFR Part 21 reportable
deficiency. Non-uniform sized secondary
disconnect fingers on 6.9 KV Class 1E switchgear
breakers Purchase Orders NY-435112 and NY-435113
from Siemens-Allis, Inc.

ITEM: 6.9 KV circuit breaker secondary disconnects.

SUPPLIED BY: Siemens-Allis, Sanford North Carolina.

NATURE OF
DEFICIENCY: Due to variations in manufacturing process and
material, the secondary disconnect fingers are
of varying length. The varying length affects
the quality of the connections at the secondary
disconnect. These connections are an integral
part of the breaker control circuitry.

DATE PROBLEM
IDENTIFIED: Shearon Harris personnel identified this problem
via NCR 85-391 on February 13, 1985.

DATE PROBLEM
REPORTED: On March 1, 1985, CP&L (Mr. N. J. Chiangi)
notified the NRC (Mr. A. Hardin) that the item
was reportable under the provisions of
10CFR50.55(e) and 10CFR Part 21.

SCOPE OF
PROBLEM: The deficiency involves the twenty five Unit 1
Class 1E 6.9 KV switchgear breakers.

SAFETY
IMPLICATIONS: When contacts are made with insufficient wipe
and pressure to ensure adequate and reliable
trip and reclose control circuits, the ability
of the breaker to operate during emergency
events is adversely affected.

REASON
DEFICIENCY
IS REPORTABLE: As redundancy is compromised due to a generic
deficiency, the availability of electric power
from either off-site or on-site sources needed
to operate ESF Systems is compromised. This
reduces the degree of protection to plant
systems.

CORRECTIVE
ACTION: Siemens-Allis has supplied new fingers to
Shearon Harris. Siemens-Allis has informed CP&L
that the new fingers were provided by a previous
supplier of these units and were subjected to a

CORRECTIVE

ACTION (continued)

100% inspection to assure uniformity. Siemens-Allis also stated future secondary disconnect fingers will be supplied to Siemens-Allis by this vendor. Replacement fingers have been installed in the subject 6.9 KV switchgear.

FINAL REPORT:

Based on completion of corrective action, this is the Final Report for Item 209.