



Carolina Power & Light Company

85 DEC 17 P 3: 51

SHEARON HARRIS NUCLEAR PROJECT
P.O. Box 101
New Hill, North Carolina 27562

DEC 18 1985

50-400

File Number: SHF/10-13510E
Letter Number: HO-850481 (O)

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

NRC-407

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 our third interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55 (e) and 10CFR, Part 21, on March 1, 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 February 28, 1986.

Thank you for your consideration in this matter.

Your very truly,

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

RAW:jsb

Attachment

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

NBI-OS1

8512270216 851213
PDR ADOCK 05000400
S PDR

11 IE27

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT 1

THIRD INTERIM REPORT

SECONDARY DISCONNECT FINGERS
6.9 KV CIRCUIT BREAKERS

NCR 85-391

ITEM 209

DECEMBER 11, 1985

REPORTABLE UNDER 10CFR 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 REPORT-
ABLE: As redundancy is compromised due to a generic
deficiency, the availability of electric power from
either offsite or onsite sources needed to operate
ESF Systems is compromised. This reduces the degree
of protection to plant systems and to public health.

CORRECTIVE:
ACTION: Siemens-Allis has partially supplied new fingers to
Shearon Harris. These fingers were subjected to a
100% conventional and compression inspection to
assure conformance by Siemens-Allis. The
Siemens-Allis Quality Assurance unit is pursuing

corrective action through their subvendor via appropriate changes in the subvendors QA program and acceptance criteria. The Shearon Harris site is currently inspecting secondary disconnect fingers at the site. From initial inspections it has been determined that existing fingers do not conform to the length of the new fingers. The original fingers will be replaced with the new fingers. Completion of the installation of the new fingers will commence once Siemens Allis supplies the balance of the disconnect fingers to the Harris site.

FINAL
REPORT:

Completion of the installation of the new secondary disconnect fingers for 6.9 KV switchgear is scheduled for completion on February 28, 1986.