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 AUTH. NAME AUTHOR AFFILIATION
 RICHEY, R.B. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EBNETER, S.D. Region 1, Ofc of the Director

SUBJECT: Part 21 rept re molded case breakers.

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NOTES: Application for permit renewal filed.

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CP&L

Carolina Power & Light Company

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

AUG 25 1989

File Number: SHF/10-13510
Letter Number: HO-890087 (O)

S. D. Ebnetter
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 2900)
Atlanta, Georgia 30323

SHEARON HARRIS
DOCKET NO. 50-400/LICENSE NO. NPF-63
POTENTIAL 10CFR PART 21 NOTIFICATION
MOLDED CASE CIRCUIT BREAKERS

Dear Mr. Ebnetter:

Attached is our report on the subject item which is provided to you with initial information on an item which we consider to be potentially reportable per the provisions of 10CFR21. We continue to investigate the observed failure at Harris to determine the root cause, and will use this root cause to determine if an actual Part 21 report is required. Carolina Power and Light Company considers that the actions taken/planned are adequate for resolution of this item at this time.

If you should have any questions regarding this matter, please contact Mr. Dean Tibbitts at (919)-362-2718.

Very truly yours,

R. B. Richey
R. B. Richey
Manager
Harris Nuclear Project

RJS:djs

Enclosure

cc: Mr. R. A. Becker (NRR)
Mr. W. H. Bradford (NRC-SHNPP)
NRC Document Control Desk

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**CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT**

MOLDED CASE CIRCUIT BREAKERS

POTENTIALLY REPORTABLE UNDER 10CFR21

SUBJECT: Molded Case Circuit Breakers

ITEM: Model HE3B100 Ampere circuit breakers

SUPPLIED

BY: ITE-Siemens
Siemens Energy & Automation Inc.
ITE Electrical Products
3333 State Bridge Road
Alpharetta, Georgia 30201

NATURE OF
DEFICIENCY:

These circuit breakers were purchased commercial grade and subjected to thermal and instantaneous trip tests at SHNPP. The breakers are used in safety-related motor control centers. Typical loads include the Reactor Coolant System Supports Fans (S-4), and the Emergency Diesel Generator Room Exhaust Fans (E-86).

SAFETY

IMPLICATIONS: In certain applications, the breaker would not hold the required load resulting in equipment inoperability.

PLAN OF
CORRECTIVE
ACTION:

1. A test of the breakers was performed by the vendor on August 22, 1989.
2. CP&L is reviewing the circuit breaker test procedures used at the plant.
3. CP&L is identifying safety related applications of these molded case circuit breakers at SHNPP.
4. Motor in-rush current tests will be performed on the S-4 motor to determine if correct breaker is being utilized, and/or determine motor problems.

