CP&L

Carolina Power & Light Company

H. B. ROBINSON STEAM ELECTRIC PLANT
POST OFFICE BOX 790
HARTSVILLE, SOUTH CAROLINA 29550

JAN 1 9 1983

Robinson File No: 13510 Serial: RSEP/83-62

Mr. James P. O'Reilly
Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
INFORMATION REPORT
TEST FAILURE OF "A" REACTOR TRIP CIRCUIT BREAKER

Dear Mr. O'Reilly:

This report is being submitted as an information report.

While performing routine Periodic Test (PT) No. 19A (Reactor Protection Logic Train A) on December 20, 1982, "A" Reactor Trip Circuit Breaker (TCB) failed to trip when the trip signal was initiated.

Action Taken

"A" Reactor TCB was declared inoperable at 1450 hours on December 20, 1982, and removed from its cubicle. "B" Reactor Bypass TCB was removed from its cubicle, installed in place of "A" Reactor TCB, and tested successfully. Periodic Test PT-19A was completed satisfactorily, and "B" Reactor TCB was demonstrated operable during PT-19B at 1709 hours on December 20, 1982.

Cause Description and Analysis

Subsequent inspection and testing of "A" Reactor TCB revealed that the undervoltage relay appeared to be sticking. The relay was removed from the breaker, cleaned, lubricated, and found to operate properly.

However, a new undervoltage relay was installed in the breaker. It is believed that the reason the relay failed to operate was due to improper lubrication. Additionally, the inspection of the breaker mechanism revealed that the operating links for A and B phases were cracked. The links were also replaced as a preventative maintenance measure. The cracked condition of these operating links had no affect on the proper operation of the breaker. Also, the breaker secondary contacts and X relay contacts were cleaned. "A" Reactor TCB was returned to its proper cubicle, racked into place, and tested in accordance with the applicable portions of PT-19A. This test was repeated two additional times to ensure "A" Reactor TCB would respond properly to a trip signal. "A" Reactor TCB was declared operable at 1036 hours on December 23, 1982.

At no time was the plant operated in a less conservative condition than allowed by the Technical Specifications, and the installed TCB's were always capable of responding to both automatic and manual trip signals. An engineering evaluation has been initiated to determine if periodic replacement of the Reactor TCB undervoltage relays is advisable and to review the lubrication and cleaning intervals for adequacy. All corrective actions determined to be necessary as a result of the evaluation will be implemented. Additionally, the Reactor and Bypass TCB's will be inspected during the upcoming Steam Generator Inspection outage with particular attention being directed to the condition of the undervoltage relays and trip mechanism operating links.

Should you have any questions regarding this special report, please contact me.

Very truly yours,

R. B. Starkey, Jr.
General Manager
H. B. Robinson SEG Plant

HTC:JMC/bss

cc: S. P. Weise