



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

June 27, 1989

Docket Nos. 50-325
50-324

Mr. Lynn W. Eury
Executive Vice President
Power Supply
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: SAFETY EVALUATION FOR GENERIC LETTER 83-28, ITEM 4.5.3, REACTOR TRIP RELIABILITY - ON-LINE FUNCTIONAL TESTING OF THE REACTOR TRIP SYSTEM - BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2 (TAC NOS. 53967/53968)

Generic Letter 83-28, Item 4.5.3, required confirmation from all licensees and applicants that on-line functional testing of the reactor trip system, including independent testing of the diverse trip feature, was being performed.

By letter dated November 7, 1983, Carolina Power & Light Company (CP&L) submitted a response to Generic Letter 83-28, Item 4.5.3, stating that CP&L has performed a review of the Brunswick Steam Electric Plant, Units 1 and 2 (BSEP) reactor protection system on-line functional testing intervals and found that the frequency of tests was sufficient to ensure that an increase in failure rate due to a wearout condition or a common cause failure potential could be detected early and appropriate corrective action taken.

In addition to the review of your November 7, 1983 submittal, the staff has also reviewed the BWR Owners' Group response to GL 83-28, Item 4.5.3, as documented in topical reports NECD-30844 and NECD-30851P. The staff found that the reactor trip system (RTS) availability analysis in these reports adequately covered both generic relay and solid state RTS designs, which includes all currently operating BWR plants and, therefore, is applicable to BSEP. The NRC staff concludes that the existing intervals for on-line functional testing at BSEP are consistent with achieving high RTS availability and are therefore, acceptable.

The enclosed Safety Evaluation and contractor's report (EGG-NTA 8341) provide the details and basis for our conclusion. Therefore, we consider Generic Letter 83-28, Item 4.5.3 to be complete.

Sincerely,

Original Signed By:

Ngoc B. Le, Project Manager
Project Directorate II-1
Division of Reactor Projects -I/II
Office of Nuclear Reactor Regulation

Enclosures:
As stated

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Mr. L. W. Eury
Carolina Power & Light Company

Brunswick Steam Electric Plant
Units 1 and 2

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