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CAROLINA PWR & LIGHT

DOCDATE: 03/07/78
DATE RCVD: 03/10/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:
INFORMATION RE: ASYMMETRIC LOADS FROM A LOSS OF COOLANT ACCIDENT ON REACTOR COOLANT SYSTEM COMPONENTS AND SUPPORTS.

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Carolina Power & Light Company

March 7, 1978

Mr. Edson G. Case, Acting Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NOS. 1, 2, 3, AND 4
DOCKET NOS. 50-400, 50-401, 50-402, 50-403
ASYMMETRIC LOCA LOADS

Dear Mr. Case:

Carolina Power & Light Company (CP&L) received a letter from Mr. Victor Stello, Director of Operating Reactors, dated January 25, 1978, which requested information concerning the effects of asymmetric loads from a loss of coolant accident (LOCA) on reactor coolant system components and supports. Although the Shearon Harris Nuclear Power Plant (SHNPP) does not have an Operating License, CP&L is responding to Mr. Stello's request for information since the request was directed toward all PWR Licensees.

The concerns stated in Mr. Stello's letter have been partially satisfied in the SHNPP Preliminary Safety Analysis Report as a result of formal questions received from the NRC (Q22.9(2) through Q22.9(11) transmitted by Mr. Olan Parr's letter of December 27, 1976). These formal questions closely resemble items (1) through (9) on pages 4 and 5 of Enclosure 2 to Mr. Stello's letter. Analyses addressing the remainder of the concerns in Enclosure 2 will be performed and the results will be submitted in the SHNPP Final Safety Analysis Report. Appropriate design consideration will be given to ensure that asymmetric LOCA loads do not result in consequences which could prevent safe shutdown of the plant or result in unacceptable radioactive releases.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

MAM/gsm

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336 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602