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RECIP. NAME RECIPIENT AFFILIATION
DENTON, H. R. Office of Nuclear Reactor Regulation

SUBJECT: Requests NRC concurrence of mad of Spec CH-4, "Embankments, Dams, Dikes & Channels," to include new impervious matl & random fill matl for placement in emergency svc water intake channel.

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CP&L

Carolina Power & Light Company

September 6, 1979

Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Regulatory Commission
Washington, D.C. 20555

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NOS. 1, 2, 3 & 4
DOCKET NOS. 50-400, 50-401, 50-402, 50-403
EMERGENCY SERVICE WATER INTAKE CHANNEL

Dear Mr. Denton:

On August 2, 1979, Carolina Power & Light (CP&L) provided your staff with the results of field permeability tests and in-place density tests taken for select impervious and modified random fill previously placed in the Emergency Service Water Intake Channel at the Shearon Harris Nuclear Power Plant (SHNPP). During subsequent telephone discussions with members of NRC Region II and the Office of Nuclear Reactor Regulation, it was determined that a moisture control program must be implemented for any Category I fill being placed in this area. CP&L will modify the Specification CH-4 "Embankments, Dams, Dikes, and Channels," to include the following additional requirements for new fill material placed in the Emergency Service Water Intake Channel:

1. Impervious material placed in each layer during compaction rolling, will contain within ±2 percent of optimum moisture content. Moisture will be determined as specified in paragraph 10.5 of Specification CH-4.

2. Modified random fill material will be placed in layers not more than 12 inches thick and will be compacted to 95 percent of Standard Proctor Density. In-place density will be determined as specified in paragraph 10.4 of Specification CH-4. In-place density tests will be performed at the following minimum frequencies: (a) at least one per earthfill shift, or (b) one for every 1,000 cubic yards, or (c) where the degree of compaction is doubtful. These frequencies are required by Technical Procedure TP-08, Appendix B, Revision 7. The material placed in each layer during compaction by rolling will contain within ±2 percent of optimum moisture content. Moisture will be determined as specified in paragraph 10.5 of Specification CH-4.

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

CP&L requests your formal concurrence of the above criteria for new impervious material and modified random fill material so that construction of the Emergency Service Water Intake Channel can proceed without delay. No material will be placed for the Emergency Service Water Intake Channel impervious liner until NRC concurrence is received.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

MAM/tl
cc: Mr. James P. O'Reilly