



Carolina Power & Light Company

FEB 23 1983

SERIAL: LAP-83-28

Director of Nuclear Reactor Regulation
Attention: Mr. D. B. Vassallo, Chief
Operating Reactors Branch No. 2
Division of Licensing
United States Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324
LICENSE NOS. DPR-71 AND DPR-62
NRC QUESTIONS
SPENT FUEL EXPANSION

Dear Mr. Vassallo:

On January 17, 1983, a conference call was held to address questions by Mr. Rothberg of the Structural Engineering Branch regarding Carolina Power & Light Company's (CP&L) Technical Specification Revision Request for the Brunswick Units 1 and 2 Spent Fuel Pool Expansion.

During this call, the Nuclear Regulatory Commission's (NRC) reviewer asked four new questions regarding the proposed Fuel Rack Support System and existing prestressed concrete girders (see enclosure 1). Carolina Power & Light Company is presently compiling answers to these questions and will submit our response by March 16, 1983.

On August 18, Mr. Sam MacKay requested a clarification on the number of module storage locations presently available at the Brunswick Steam Electric Plant, Unit Nos. 1 and 2. Section 1.0 of the Brunswick Steam Electric Plant (BSEP) Spent Fuel Storage Expansion Report states that a total of 2,086 BWR and 304 PWR fuel assembly storage locations are presently available (this is a total of 77 racks). Note that each PWR rack holds 16 assemblies, and each BWR rack holds 36 assemblies. This configuration conforms to the Technical Specification (paragraph 5.6.3) which limits the storage to no more than 616 PWR and 1,086 BWR fuel assemblies per unit. As explained in Section 2.0 of the report, the expansion will allow 10 full spaces and 2 1/2 spaces of the existing 38 1/2 spaces in the support grid to accommodate 731 instead of 396 BWR assemblies and will also add additional spaces to store 442 more BWR assemblies in the area presently used for control rod storage. This will result in a maximum combined fuel storage capacity of 3,642 BWR assemblies and 304 PWR assemblies for the two units.

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A question was also asked with regard to paragraph 5.6.1 of the subject technical specification, page 5-5, concerning maximum criticality of fuel assemblies to be stored in the new and old racks. This question will also be addressed in our March response.

In review, Carolina Power & Light Company's original licensing amendment application seeking modification of the BSEP Spent Fuel Storage Pools was submitted on April 16, 1981. On March 16, 1982, CP&L responded to requests for information dated July 14, 1981 and November 5, 1981 and provided additional information supporting the April 16, 1981 submittal. On September 16, 1982, CP&L responded to more information requests dated November 5, 1981 and July 14, 1981 and April 30, 1982. Since that time, CP&L has responded to requests for information received December 3, 1982, December 21, 1982, January 17, 1983, and January 18, 1983.

As time is rapidly approaching when installation of this equipment must begin, CP&L requests the NRC's approval of the revised technical specification within 30 days of our submittal of the requested information.

Yours very truly,

SK Zimmerman
for W. J. Hurford
Manager
Technical Services

JSD/mag (6065C8T4)

cc: Mr. D. O. Myers (NRC-BSEP)
Mr. J. P. O'Reilly (NRC-RII)
Mr. S. D. MacKay (NRC)