



Carolina Power & Light Company
DEC 21 1984

SERIAL: NLS-84-492

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 & 50-324/LICENSE NOS. DPR-71 & DPR-62
MASONRY WALL DESIGN, IE BULLETIN 80-11

Dear Mr. Vassallo:

In our letter of April 27, 1984, Carolina Power & Light Company (CP&L) notified you that an additional 17 walls at the Brunswick Steam Electric Plant were being evaluated to determine whether or not upgrading of the walls would be required to meet code requirements for masonry walls. The purpose of this letter is to provide you with the results of that evaluation.

The evaluation of the walls discussed above consisted of a field inspection and mathematical analyses based on "Recommended Guidelines for the Reassessment of Safety-Related Concrete Masonry Walls" prepared by Owners and Engineering Firms Informal Group on Concrete Masonry Walls, October 6, 1980. Analyses were performed using the working stress design methods.

The field inspection determined that two walls previously labeled "Safety Related" should, in fact, be labeled "Nonsafety Related" as there is no safety-related equipment attached or in proximity to the walls. These walls are Wall 2a in the Unit 1 Reactor Building, originally listed as one of ten walls committed to be upgraded in the aforementioned submittal, and Wall 9a (one of 17 additional walls identified in the April 27, 1984 submittal) in the Diesel Generator Building. Based on mathematical analysis, it was determined that the following walls have stresses within allowable limits (Attachment 1) described in the guideline referenced above; therefore, no additional reinforcement is required:

<u>Wall No.</u>	<u>Location</u>
6d	Control Building
8b	Control Building
8e	Diesel Generator Building
7a	Diesel Generator Building
7e	Diesel Generator Building

*Acc
1/0*

The remaining 11 walls will require additional reinforcement to reduce stresses to be within the allowable limits indicated in Attachment 1. These walls are:

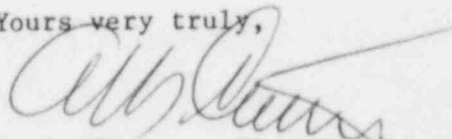
<u>Wall No.</u>	<u>Location</u>
5a	Diesel Generator Building
5b	Diesel Generator Building
5c	Diesel Generator Building
5d	Diesel Generator Building
6a	Diesel Generator Building
9e	Diesel Generator Building
6b	Control Building
6g	Control Building
8a	Control Building
8c	Control Building
8d	Control Building

As committed in our April 27, 1984 letter, the design for the 9 walls which have been identified as needing fixes has been completed. In addition, CP&L expects to complete the fix designs for the 11 additional walls by July 1985.

In summary, following the re-evaluation, a total of 20 walls at Brunswick Units 1 and 2 will require modification. These 20 walls include 9 of the 10 walls discussed in our letter of April 27, 1984 as requiring modification and the 11 additional walls listed above.

Should you have any questions concerning this information, please contact Mr. S. R. Zimmerman at (919) 836-6242.

Yours very truly,


A. B. Cutter - Vice President
Nuclear Engineering & Licensing

JSD/ccc (894JSD)

Attachment

cc: Mr. D. O. Myers (NRC-BNP)
Mr. J. P. O'Reilly (NRC-RII)
Mr. M. Grotenhuis (NRC)