



**Carolina Power & Light Company**  
PO Box 10429  
Southport NC 28461-0429

**William R. Campbell**  
Vice President  
Brunswick Nuclear Plant

October 22, 1996

SERIAL: BSEP 96-0403  
10 CFR 50.90  
TSC 94TSB16

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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  
LICENSE AMENDMENT REQUEST - POWER UPRATE  
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Gentlemen:

By letter dated April 2, 1996, Carolina Power & Light Company (CP&L) submitted a proposed license amendment to revise the Technical Specifications for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2 to allow uprate of the units to 105% of rated thermal power. During a telephone conversation on October 22, 1996, CP&L and the NRC staff discussed the evaluations that CP&L had performed for the proposed power uprate relative to the stability of CP&L's electrical transmission system. This letter documents the results of our reviews of the CP&L electrical transmission system stability following the implementation of power uprate.

Carolina Power & Light Company has reviewed the impact of the proposed power uprate on the electrical transmission system. It has been determined that the increased generating output will not adversely impact the ability of the transmission system to provide sufficient power to permit functioning of structures, systems, and components important to safety, as required by 10 CFR 50, Appendix A, Criterion 17. The Company performed a grid stability analysis and determined that the transmission system will remain stable while the units are operated at uprated conditions. Changes to existing system and plant operating procedures governing main generator minimum and maximum reactive load limits are included in the implementation of the power uprate project.

Please refer any questions regarding this submittal to Mr. Mark Turkal at (910) 457-3066.

Sincerely,

William R. Campbell

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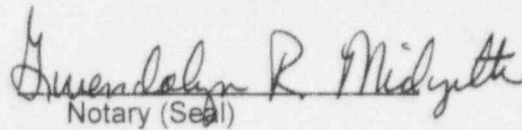
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Enclosure

1. List of Regulatory Commitments

William R. Campbell, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, and agents of Carolina Power & Light Company.

  
Notary (Seal)

My commission expires: *August 12, 2001*

pc: U. S. Nuclear Regulatory Commission  
ATTN.: Mr. Stewart D. Ebnetter, Regional Administrator  
101 Marietta Street, N.W., Suite 2900  
Atlanta, GA 30323-0199

Mr. C. A. Patterson  
NRC Senior Resident Inspector - Brunswick Units 1 and 2:

U.S. Nuclear Regulatory Commission  
ATTN.: Mr. David C. Trimble, Jr. (Mail Stop OWFN 14H22)  
11555 Rockville Pike  
Rockville, MD 20852-2738

The Honorable H. Wells  
Chairman - North Carolina Utilities Commission  
P.O. Box 29510  
Raleigh, NC 27626-0510

Mr. Dayne H. Brown  
Director - Division of Radiation Protection  
North Carolina Department of Environment, Health, and Natural Resources  
P.O. Box 27687  
Raleigh, NC 27611-7687

ENCLOSURE 1

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2  
NRC DOCKET NOS. 50-325 & 50-324  
OPERATING LICENSE NOS. DPR-71 & DPR-62  
LICENSE AMENDMENT REQUEST - POWER UPRATE  
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

LIST OF REGULATORY COMMITMENTS

The following table identifies those actions committed to by Carolina Power & Light Company in this document. Any other actions discussed in the submittal represent intended or planned actions by Carolina Power & Light Company. They are described to the NRC for the NRC's information and are not considered regulatory commitments. Please notify the Manager-Regulatory Affairs at the Brunswick Nuclear Plant of any questions regarding this document or any associated regulatory commitments.

Commitment	Committed Date
No New Commitments Are Contained In This Letter	N/A