



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

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

October 16, 1996

SERIAL: BSEP 96-0390  
10 CFR 50.90  
TSC 95TSB32

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 1  
DOCKET NOS. 50-325/LICENSE NOS. DPR-71  
SUPPLEMENT TO REQUEST FOR LICENSE AMENDMENT  
FUEL CYCLE 11 RELOAD LICENSING  
(NRC TAC NO. M95263)

Gentlemen:

By letters dated April 8, 1996 (Serial: BSEP 96-0061) and July 30, 1996 (Serial: BSEP 96-0271), Carolina Power & Light Company submitted a license amendment request for revisions to the Technical Specifications for the Brunswick Steam Electric Plant (BSEP), Unit No. 1. The proposed license amendment revises the Minimum Critical Power Ratio (MCPR) Safety Limit referenced in Technical Specification 2.1.2 from 1.07 to 1.10 for Unit 1 Cycle 11 operation and revises Technical Specification 5.3.1 to reflect the new fuel type (GE13) being added to the Unit 1 reactor core beginning with Cycle 11 operation. In addition, the proposed license amendment revises the acceptable range of sodium pentaborate concentration for the standby liquid control system to reflect changes to poison material concentration needed to achieve reactor shutdown based on the planned use of the new GE13 fuel type. Subsequently, by letters dated October 4, 1996 (BSEP 96-0366) and October 8, 1996 (BSEP 96-0376), CP&L responded to NRC requests for additional information regarding the proposed license amendment.

During telephone discussions on October 15, 1996, the NRC staff noted that because the proposed safety limit MCPR value of 1.10 for Brunswick 1 Cycle 11 operation is based on an NRC-approved methodology that uses cycle-specific input parameters, the proposed safety limit MCPR value should be restricted to use only during Brunswick 1 Cycle 11. To accommodate the NRC staff, CP&L is providing the enclosed revision to the proposed license amendment. The Company proposes to add a footnote to the safety limit MCPR value of 1.10 in Technical Specification 2.1.2 and its associated ACTION statement that indicates the stated MCPR values are applicable only for Unit 1 Cycle 11 operation. In addition, CP&L proposes to add a reference in Technical Specification 6.9.3.2 to the NRC Safety Evaluation approving this proposed license amendment. Adding this reference will document NRC acceptance of the General Electric methods used for determination of the Unit 1 Cycle 11 safety limit MCPR value, including the use of NEDC-32505P, "R-Factor Calculation Method for GE11, GE12, and GE13 Fuel, November 1995."

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Carolina Power & Light Company has reviewed the proposed license amendment request, as revised by the footnote restricting applicability of the safety limit MCPR value to only Unit 1 Cycle 11 operation and as revised by the addition of the NRC Safety Evaluation reference in Specification 6.9.3.2, and has determined that adoption of the proposed license amendment does not impact the conclusions of the no significant hazards notice published in the *Federal Register* on August 14, 1996 (61 FR 42276). This conclusion is based on the fact the proposed footnote restricts the use of the 1.10 safety limit MCPR value to an operational period less than originally evaluated through the 10 CFR 50.92 evaluation (e.g., to only Unit 1 Cycle 11 operation rather than for an indefinite period of time). This conclusion is also based on the fact that adding a reference in Specification 6.9.3.2 to the NRC Safety Evaluation approving this license amendment request is an administrative change that provides additional documentation of the methods found acceptable to the NRC staff in approving this license amendment request. Carolina Power & Light Company has concluded that the proposed license amendment meets the eligibility requirements for categorical exclusion set forth in 10 CFR 51.22(c)(9); therefore, the proposed license amendment does not require the preparation of an environmental assessment.

Enclosure 1 provides the revised page change instructions for incorporating the proposed revisions.

Enclosure 2 provides the revised typed Technical Specification pages for Unit 1.

Enclosure 3 provides the revised marked-up Technical Specification pages for Unit 1.

Carolina Power & Light Company is providing, in accordance with 10 CFR 50.91(b), Mr. Dayne H. Brown of the State of North Carolina with a copy of the proposed license amendments.

As previously discussed with the NRR Project Manager, Unit 1 core reloading operations are expected to commence by October 22, 1996. Since NRC approval and issuance of this proposed license amendment is needed to allow core reloading operations to commence, and in order to allow time for procedure revision and orderly incorporation into copies of the Technical Specifications, CP&L requests that the proposed license amendment be issued no later than the close of business on Friday, October 18, 1996.

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

Sincerely,



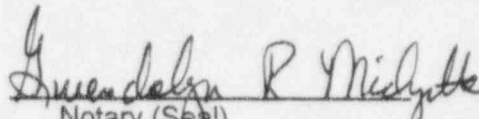
William R. Campbell

WRM/wrm

Enclosures:

1. Revised Page Change Instructions
2. Typed Technical Specification Pages - Unit 1
3. Marked-up Technical Specification Pages - Unit 1

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. Ebner, 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, UNIT NO. 1  
NRC DOCKET NO. 50-325  
OPERATING LICENSE NO. DPR-71  
REQUEST FOR LICENSE AMENDMENT  
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<u>PAGE CHANGE INSTRUCTIONS</u>	
<u>UNIT 1</u>	
Removed page	Inserted page
XVI	XVI
2-1	2-1
3/4 1-20	3/4 1-20
5-1	5-1
6-23	6-23
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ENCLOSURE 2

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TYPED TECHNICAL SPECIFICATION PAGES - UNIT 1