



Carolina Power & Light Company

QEC 2 0 1985

SERIAL: NLS-85-415

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 NO. 2  
DOCKET NO. 50-324/LICENSE NO. DPR-62  
REQUEST FOR LICENSE AMENDMENT  
FUEL CYCLE NO. 7 - RELOAD LICENSING

Dear Mr. Vassallo:

#### SUMMARY

In accordance with the Code of Federal Regulations, Title 10, Parts 50.90 and 2.101, Carolina Power & Light Company (CP&L) hereby requests revisions to the Technical Specifications (TS) for the Brunswick Steam Electric Plant, Unit No. 2. The purpose of this amendment is to incorporate more conservative minimum critical power ratio (MCPR) values, thereby allowing reload licensing for Brunswick-2 Cycle 7 under the provisions of 10 CFR 50.59. In addition, references to the 8 x 8 fuel type have been removed.

#### DISCUSSION

This amendment request provides more conservative power distribution limits for operation of Brunswick-2. The current limits were supplied in the General Electric Report No. 23A1765, "Supplemental Reload Licensing Submittal for Brunswick Steam Electric Plant, Unit No. 2, Reload 5" submitted June 26, 1984. These more conservative limits will bound the Brunswick-2 Reload 6 limits, allowing reload licensing for Brunswick-2 Cycle 7 under the provisions of 10 CFR 50.59. When the General Electric topical report for Reload 6 is received, a copy will be forwarded to your staff for informational purposes. In addition to the more conservative power distribution limits, other administrative changes are being made to prepare the Brunswick-2 TS for future 10 CFR 50.59 reload licensing. These changes are detailed in the Summary List of Revisions provided in Enclosure 1.

*Rec'd w/checkbox  
for \$150.00*

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

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Additional changes made in the request include deletion of references to the 8 x 8 fuel type which has been totally removed from the core and the combining of the TS Table 3.2.3.2-1 Transient Operating Limit MCPR Values for turbine trip/load reject without bypass and feedwater control failure into a common category of pressurization transients. Creation of the common pressurization transients category of MCPR values will aid future 10 CFR 50.59 reload licensing. For each pressurization transient MCPR value, a factor of conservatism was added to the MCPR values provided for the turbine trip/load reject without bypass transient, which already bounded the feedwater control failure transient. This results in pressurization transient MCPR values which bound both the original sets of MCPR values.

### **SIGNIFICANT HAZARDS ANALYSIS**

The Commission has provided standards for determining whether a significant hazards consideration exists (10 CFR 50.92(c)). A proposed amendment to an operating license for a facility involves no significant hazards consideration if operation of the facility in accordance with the proposed amendment would not: (1) involve a significant increase in the probability or consequences of an accident previously evaluated; (2) create the possibility of a new or different kind of accident from any accident previously evaluated; or (3) involve a significant reduction in a margin of safety. Carolina Power & Light Company has reviewed this request and determined that:

1. The proposed amendment does not involve a significant increase in the probability or consequences of an accident previously evaluated because in each case the changes represent more conservative power distribution limits. Formation of a common pressure transient category of MCPR values in TS Table 3.2.3.2-1 results in more conservative MCPR values than those previously established. In addition, the final core configuration will consist of no fuel assemblies significantly different from those previously found acceptable to the NRC. Other changes made as a result of this amendment request are purely administrative in nature.
2. The proposed amendment does not create the possibility of a new or different kind of accident than previously evaluated for the same reasons as stated in item 1.
3. The proposed amendment does not involve a significant reduction in a margin of safety because the plant will be operated under stricter power distribution limits as a result of the amendment.

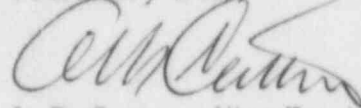
Based on the above reasoning, CP&L has determined that the proposed amendment does not involve a significant hazards consideration.

### **ADMINISTRATIVE INFORMATION**

The revised Brunswick-2 TS pages are provided in Enclosure 1. The Company has evaluated this request in accordance with the provisions of 10 CFR 170.12 and determined that a license amendment application fee is required. A check for \$150 is enclosed in payment of this fee. Issuance of this amendment is required by July 31, 1986 in order to support startup of Brunswick-2.

Please refer questions regarding this submittal to Mr. S. R. Zimmerman at  
(919) 836-6242.

Yours very truly,

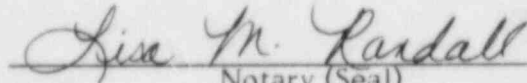


A. B. Cutter - Vice President  
Nuclear Engineering & Licensing

ABC/MAT/ccc (3043MAT)

cc: Mr. W. H. Ruland (NRC-BNP)  
Dr. J. Nelson Grace (NRC-RII)  
Mr. M. Grotenhuis (NRC)  
Mr. Dayne H. Brown

A. B. Cutter, 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, contractors, and agents of Carolina Power & Light Company.

  
Notary (Seal)

My commission expires: 5/18/88

