



Carolina Power & Light Company

APR 30 1985

SERIAL: NLS-85-072

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. 1  
DOCKET NO. 50-325/LICENSE NO. DPR-71  
REQUEST FOR LICENSE AMENDMENT  
PRIMARY CONTAINMENT ISOLATION VALVES, CAC SYSTEM

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 a revision to the Technical Specification (TS) for the Brunswick Steam Electric Plant Unit No. 1. The proposed change revises TS Table 3.6.3-1 to reflect modifications being made during the upcoming refueling outage to provide a dedicated purge system for post-accident combustible gas control which meets the requirements of NUREG-0737 Item II.E.4.1.

#### DISCUSSION

The modifications being performed on the Brunswick-1 containment atmospheric dilution (CAD) system will provide a dual dedicated single active failure proof supply of nitrogen for use in post-accident conditions. Currently, nitrogen is transported from the storage tank into the reactor building by a 1-inch line. Once inside the reactor building, the 1-inch line ties into a 20-inch inerting line. Supply of nitrogen through this line into the containment is currently contingent on operation of large air operated isolation valves. The scheduled modification reroutes both the inerting and exhaust lines of the CAD system, thereby providing post-accident purging capability independent of these large air operated isolation valves. The 20-inch inerting and exhaust lines will still be used under normal startup and makeup conditions. As a result of the modification, the suppression chamber and drywell makeup CAD inlet valves (CAC-V47 and CAC-V48) are being deleted from TS Table 3.6.3-1. In addition, seven new primary containment isolation valves are being added to TS Table 3.6.3-1.

#### SIGNIFICANT HAZARDS ANALYSIS

The proposed revision reflects the installation of a dedicated purge system for post-accident combustible gas control. This system will meet the requirements of NUREG-0737 Item II.E.4.1. Carolina Power & Light Company has reviewed this request and believes that 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. Thus, CP&L has determined that the proposed license amendment involves no significant hazards consideration.

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Mr. D. B. Vassallo  
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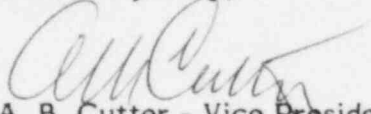
ADMINISTRATIVE INFORMATION

The proposed Brunswick-1 TS pages are provided in Enclosure 1. Also included is a summary list of revisions made to each page. Issuance of this amendment is required by September 1, 1985 to support startup of Brunswick-1.

Carolina Power & Light Company has evaluated this request in accordance with the provision of 10 CFR 170.12 and determined that license amendment application fee is required. A check for \$150.00 is enclosed in payment of this fee.

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

Yours very truly,

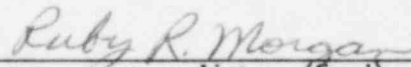
  
A. B. Cutter - Vice President  
Nuclear Engineering & Licensing

MAT/pgp (1216MAT)  
Enclosures

cc: Mr. L. W. Garner (NRC-BNP)  
Dr. J. Nelson Grace (NRC-R11)  
Mr. M. Grotenhuis (NRC)

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.

My commission expires: 11/27/89

  
Notary (Seal)

