



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

October 4, 1990

Docket Nos. 50-325
and 50-324

Mr. Lynn W. Eury
Executive Vice President
Power Supply
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: STATION BLACKOUT EVALUATION - BRUNSWICK STEAM ELECTRIC PLANT,
UNITS 1 AND 2 (TAC NOS. 68520 AND 68521)

The station blackout (SBO) rule requires each licensee to submit information, as defined in 10 CFR Part 50.63, and to provide a plan and schedule for conformance to the SBO rule. Your response to the SBO rule for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2, was provided to the Nuclear Regulatory Commission (NRC) by letters dated March 3, and October 10, 1989, and March 30, 1990.

The staff and its consultant, Science Applications International Corporation (SAIC), jointly conducted a site audit review on June 26-30, 1989, of some of the supporting documentation for the SBO response. Based on our review, the additional analyses and confirmations described in the recommendations in the enclosed Safety Evaluation (SE) need to be completed. These include: (1) demonstrating the operability of the alternate AAC cross-tie circuits by test to ensure that the ACC source meets the requirements of Paragraph B-12 of NUMARC 87-00, Appendix B, (2) verifying that the assumptions in the loss-of-coolant accident (LOCA) analysis are consistent with those of the SBO scenario for containment areas, (3) establishing procedural control to monitor the control room and switchgear room temperatures and to open switchgear cabinet doors within 30 minutes, (4) verifying that the rise in suppression pool level will not affect the operation of the high pressure coolant injection (HPCI) and reactor core isolation cooling (RCIC) systems, and (5) confirming that an emergency diesel generator (EDG) reliability program meeting the guidance of Regulatory Guide 1.155 will be implemented. You should keep the analyses and the AAC test results and the documentation supporting the SBO submittal available for further inspection and assessment which may be undertaken by the NRC to audit conformance with the SBO Rule.

With regard to the Technical Specifications (TS), the TS for the SBO equipment are currently being considered generically by the NRC in the context of the Technical Specification Improvement Program and remain an open item at this time. However, the staff expects plant procedures to reflect the appropriate

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testing and surveillance requirements to ensure the operability of the necessary SBO equipment. If the staff later determines that a TS regarding the SBO equipment is warranted, you will be notified of the implementation requirements.

Based on our review of the submittal and site audit, we find the BSEP, Units 1 and 2, design and proposed method of dealing with an SBO to be in conformance with the SBO rule.

Furthermore, the staff finds that the acceptability of your design and the proposed method for compliance with the SBO rule is contingent upon your confirmation that the recommendations identified in the staff SE will be implemented. This confirmation and the schedule for implementation of required hardware and the related procedure modifications should be provided to the NRC within 30 days of receipt of this letter in accordance with 10 CFR 50.63(c)(4).

Original Signed By:

Ngoc B. Le, Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:
As stated

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Mr. L. W. Eury
Carolina Power & Light Company

Brunswick Steam Electric Plant
Units 1 and 2

cc:

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