

December 13, 2002

Mr. J. S. Keenan
Vice President
Carolina Power & Light Company
Brunswick Steam Electric Plant
Post Office Box 10429
Southport, North Carolina 28461

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2 - ISSUANCE OF
AMENDMENT NO. 251 TO FACILITY OPERATING LICENSE NO. DPR-62 RE:
FACILITY CHECK VALVE PROGRAM (TAC NO. MB6372)

Dear Mr. Keenan:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 251 to Facility Operating License No. DPR-62 for the Brunswick Steam Electric Plant, Unit 2. The amendment is in response to your application dated September 16, 2002.

The amendment revises a license condition by deleting the requirement to include check valve MVD-V5008 in the facility check valve program.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's bi-Weekly Federal Register Notice.

Sincerely,

/RA by L. Olshan for/

Brenda L. Mozafari, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-324

Enclosures:

1. Amendment No. 251 to
License No. DPR-62
2. Safety Evaluation

cc w/enclosures:
See next page

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AMENDMENT NO. 251 TO FACILITY OPERATING LICENSE NO. DPR-62 - BRUNSWICK,
UNIT 2

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CAROLINA POWER & LIGHT COMPANY

DOCKET NO. 50-324

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 251
License No. DPR-62

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Carolina Power & Light Company (the licensee), dated September 16, 2002, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to Appendix B, "Additional Conditions," as indicated in the attachment to this license amendment; and paragraph 2.C.(2) of Facility Operating License No. DPR-62 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 251, are hereby incorporated in the license. Carolina Power & Light Company shall operate the facility in accordance with the Technical Specifications.

3. Also, paragraph 3 of the license is hereby amended to read as follows:

3. Additional Conditions

The Additional Conditions contained in Appendix B, as revised through Amendment No. 251, are hereby incorporated into this license. Carolina Power & Light Company shall operate the facility in accordance with the Additional Conditions.

4. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Allen G. Howe, Chief, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 13, 2002

ATTACHMENT TO LICENSE AMENDMENT NO. 251

FACILITY OPERATING LICENSE NO. DPR-62

DOCKET NO. 50-324

Replace the following page of Appendix B, "Additional Conditions," with the attached revised page. The revised page is identified by amendment number and contains a marginal line indicating the area of change.

Remove Page

1

Insert Page

1

APPENDIX B

Additional Conditions

<u>Amendment Number</u>	<u>Additional Conditions</u>	<u>Implementation Date</u>
233	The licensee is authorized to relocate certain requirements included in Appendix A and the former Appendix B to licensee-controlled documents. Implementation of this amendment shall include the relocation of these requirements to the appropriate documents, as described in the licensee's letters dated November 1, 1996, October 13, 1997, February 26, 1998, April 24, 1998, and May 22, 1998, evaluated in the NRC staff's Safety Evaluation enclosed with this amendment.	This amendment is effective immediately and shall be implemented within 90 days of the date of this amendment.
233	The End-Of-Cycle Recirculation Pump Trip system instrumentation shall be maintained inoperable (i.e. manually bypassed) during Mode 1, when thermal power is greater than or equal to 30% rated thermal power. Implementation of this amendment shall include this condition, as described in the licensee's letter dated March 13, 1998, evaluated in the NRC staff's Safety Evaluation enclosed with this amendment.	This amendment is effective immediately and shall be implemented within 90 days of the date of this amendment.
246	The licensee shall, consistent with the applicable provisions of the BWR Owners' Group Report NEDC-31858P, Revision 2, as approved in the NRC staff's Safety Evaluation dated March 3, 1999, complete the seismic verification walkdowns and modifications necessary to ensure seismic ruggedness of the alternate leakage treatment (ALT) piping and appendages.	Prior to startup following the Unit 2 Cycle 16 Refueling Outage.
246	The licensee shall, consistent with the licensee's letter dated September 27, 2001 (i.e., Serial: BSEP 01-0112), include ALT path motor-operated valves MS-F038A, MS-F038B, MS-F038C, MS-F038D, and MVD-F021 in an augmented inservice testing program.	Prior to startup following the Unit 2 Cycle 16 Refueling Outage.
251	The licensee shall include ALT path check valve MVD-V5009 in the facility check valve program.	Prior to startup following the Unit 2 Cycle 16 Refueling Outage.

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 251 FOR FACILITY OPERATING LICENSE NO. DPR-62
CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2
DOCKET NO. 50-324

1.0 INTRODUCTION

By letter dated September 16, 2002, the Carolina Power & Light Company (the licensee) submitted a request for license amendment for the Brunswick Steam Electric Plant, Unit 2.

The requested change would revise a license condition to delete the requirement to include check valve MVD-V5008 in the facility check valve program.

2.0 REGULATORY EVALUATION

In Section 6.5 of Appendix A to Regulatory Guide (RG) 1.183, "Alternate Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors," it states "A reduction in MSIV [main steamline isolation valve] releases that is due to holdup and deposition in main steam piping downstream of the MSIVs and in the main condenser, including the treatment of air ejector effluent by offgas systems, may be credited if the components and piping systems used in the release path are capable of performing their safety function during and following a safe shutdown earthquake (SSE)." As part of the actions to satisfy this requirement, a license condition was added with the issuance of Amendment No. 246. The license condition required that check valves MVD-V5008 and MVD-5009 be included in the facility check valve program.

3.0 TECHNICAL EVALUATION

Amendment No. 246, issued May 30, 2002, revised the Technical Specifications to accommodate use of an alternate source term. The staff's Safety Evaluation supporting the amendment approved the use of an alternate means for main MSIV leakage treatment provided that the main steam piping and components that comprise the alternate means are seismically rugged (see Section 2.0 above) and are able to perform the safety function of an MSIV leakage treatment system. To limit the extent of the piping that had to be seismically rugged, the licensee committed to install a check valve on each of the two lines connecting to the main steam drains header that leads to the condenser. These check valves are identified as MVD-V5008 and MVD-V5009.

Subsequent to the issuance of the amendment, the licensee noted that the design of Units 1 and 2 were different with respect to the MSIV drain piping. On Unit 2, one of these two lines ties into a drain line from the steam bypass chest. This line is required to be seismically verified, so there is no benefit to installing a check valve (MVD-V5008) that would limit the

extent of piping that has to be seismically rugged. Thus, the proposed license condition deletes the requirement to include MVD-V5008 in the facility check valve program. Based on the foregoing, the NRC staff concludes that the proposed license condition is acceptable and that the regulatory position from RG 1.183, stated in Section 2.0 above, is still satisfied.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the State of North Carolina official was notified of the proposed issuance of the amendment. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes the Surveillance Requirements. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (67 FR 68731). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: L. Olshan

Date: December 13, 2002

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Brunswick Steam Electric Plant, Unit 2

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