

April 24, 1989

Docket Nos. 50-325  
and 50-324

DISTRIBUTION  
See attached list

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: ISSUANCE OF AMENDMENT NO. 129 TO FACILITY OPERATING LICENSE NO. DPR-71 AND AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE NO. DPR-62 - BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2, REGARDING DRYWELL SUPPRESSION CHAMBER-VACUUM BREAKERS (TAC NOS. 69548/69549)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 129 to Facility Operating License No. DPR-71 and Amendment No. 159 to Facility Operating License No. DPR-62, for Brunswick Steam Electric Plant, Units 1 and 2. The amendments consist of changes to the Technical Specifications in response to your submittal dated September 19, 1988.

The amendments revise the action associated with TS 3/4.6.4 (Drywell - Suppression Chamber - Vacuum Breakers) to clarify the alternative actions to be taken if the existing actions cannot be taken. Specifically, existing action 3.6.4.1.d will be incorporated into actions 3.6.4.1.a, 3.6.4.1.b., and 3.6.4.1.c and present action 3.6.4.1.d will be deleted. At the present time, 3.6.4.1.d specifies that the unit will be placed in hot shutdown within twelve hours and in cold shutdown within the next twenty-four hours.

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

Sincerely,

<sup>151</sup>  
E. G. Tourigny, Senior Project Manager  
Project Directorate II-1  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 129 to License No. DPR-71
2. Amendment No. 159 to License No. DPR-62
3. Safety Evaluation

cc w/enclosures:  
See next page

8905030470 890424  
PDR ADOCK 05000324  
P PDC

*DFOL*  
*111*  
*C/P-1*  
*et*

OFC	:LA:PD21:DRPR:PM:PD21:DRPR:D:PD21:DRPR	:	:	:
NAME	: PAnderson : E Tourigny : bd: EAdensam	:	:	:
DATE	: 04/21/89 : 04/2/89 : 04/10/89	:	:	:

OFFICIAL RECORD COPY

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

Brunswick Steam Electric Plant  
Units 1 and 2

cc:

Mr. Russell B. Starkey, Jr.  
Project Manager  
Brunswick Nuclear Project  
P. O. Box 10429  
Southport, North Carolina 28461

Mr. J. L. Harness  
Plant General Manager  
Brunswick Steam Electric Plant  
P. O. Box 10429  
Southport, North Carolina 28461

Mr. R. E. Jones, General Counsel  
Carolina Power & Light Company  
P. O. Box 1551  
Raleigh, North Carolina 27602

Mr. H. A. Cole  
Special Deputy Attorney General  
State of North Carolina  
P. O. Box 629  
Raleigh, North Carolina 27602

Mr. Mark S. Calvert  
Associate General Counsel  
Carolina Power & Light Company  
P. O. Box 1551  
Raleigh, North Carolina 27602

Mr. Robert P. Gruber  
Executive Director  
Public Staff - NCUC  
P. O. Box 29520  
Raleigh, North Carolina 27626-0520

Ms. Grace Beasley  
Board of Commissioners  
P. O. Box 249  
Bolivia, North Carolina 28422

Mrs. Chrys Baggett  
State Clearinghouse  
Budget and Management  
116 West Jones Street  
Raleigh, North Carolina 27603

Resident Inspector  
U. S. Nuclear Regulatory Commission  
Star Route 1  
P. O. Box 208  
Southport, North Carolina 28461

Regional Administrator, Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30323

Mr. Dayne H. Brown, Chief  
Radiation Protection Branch  
Division of Facility Services  
N. C. Department of Human Resources  
701 Barbour Drive  
Raleigh, North Carolina 27603-2008

AMENDMENT NO. 129 TO FACILITY OPERATING LICENSE NO. DPR-71 - BRUNSWICK, UNIT 1  
AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE NO. DPR-62 - BRUNSWICK, UNIT 2

Docket File

NRC PDR

Local PDR

PDII-1 Reading

S. Varga (14E4)

G. Lainas

E. Adensam

P. Anderson

E. Tourigny

N. Le

L. Spessard (MNBB 3701)

OGC

D. Hagan (MNBB 3302)

E. Jordan (MNBB 3302)

B. Grimes (9A2)

T. Meeks (4) (P1-137)

W. Jones (P-130A)

E. Butcher (11F23)

ACRS (10)

GPA/PA

ARM/LFMB

cc: Licensee/Applicant Service List



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

CAROLINA POWER & LIGHT COMPANY, et al.

DOCKET NO. 50-325

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 129  
License No. DPR-71

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 19, 1988, 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 the Technical Specifications, as indicated in the attachment to this license amendment; and paragraph 2.C.(2) of Facility Operating License No. DPR-71 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 129, are hereby incorporated in the license. Carolina Power & Light Company shall operate the facility in accordance with the Technical Specifications.

- 3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*151*

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: April 24, 1989

(BSEP12 AMEND 69548/69549) \*SEE PREVIOUS CONCURRENCE

LA: PD21:DRPR\*  
PAnderson  
03/15/89

PM: PD21:DRPR\*  
ETourigny:dIm  
03/15/89

SPLB:NRR\*  
JCraig  
03/30 /89

OGC\*  
SHLewis  
04/10/89

D:PD21:DRPR  
EAdensam  
04/24/89

*4/20/89*

*E. Adensam*  
*24*

ATTACHMENT TO LICENSE AMENDMENT NO. 129

FACILITY OPERATING LICENSE NO. DPR-71

DOCKET NO. 50-325

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised areas are indicated by marginal lines.

Remove Pages

3/4 6-18

Insert Pages

3/4 6-18



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

CAROLINA POWER & LIGHT COMPANY, et al.

DOCKET NO. 50-324

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 159  
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 19, 1988, 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 the Technical Specifications 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. 159, are hereby incorporated in the license. Carolina Power & Light Company shall operate the facility in accordance with the Technical Specifications.

- 3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

151

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: April 24, 1989

\*SEE PREVIOUS CONCURRENCE

OFC	:LA:PD21:DRPR*PM:PD21:DRPR* SPLB*	: OGC*	:D:PD21:DRPR :	:
NAME	:Patterson :ETourigny:jw:JCraig	: SHLewis	: EAdensam	:
DATE	:03/15/89	:03/30/89	:04/10/89	:04/24/89 :

4/20/89  
OFFICIAL RECORD COPY

CONTAINMENT SYSTEMS

3/4.6.4 VACUUM RELIEF

DRYWELL - SUPPRESSION CHAMBER VACUUM BREAKERS

LIMITING CONDITION FOR OPERATION

3.6.4.1 All drywell-suppression chamber vacuum breakers shall be OPERABLE and in the closed position with:

- a. The position indicator OPERABLE, and
- b. An opening set point of less than or equal to 0.5 psid.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With no more than 2 drywell-suppression chamber vacuum breakers inoperable for opening but known to be in the closed position, the provisions of Specification 3.0.4 are not applicable and operation may continue until the next COLD SHUTDOWN provided the surveillance requirements of Specification 4.6.4.1.a are performed on the OPERABLE vacuum breakers within 4 hours and at least once per 15 days thereafter, until the inoperable vacuum breakers are restored to OPERABLE status; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With one drywell-suppression chamber vacuum breaker in the open position, as indicated by the position indicating system, the provisions of Specification 3.0.4 are not applicable and operation may continue provided the surveillance requirements of Specification 4.6.4.1.a are performed on the OPERABLE vacuum breakers, and the surveillance requirements of Specification 4.6.4.1.b are performed within 8 hours and at least once per 72 hours thereafter, until the inoperable vacuum breaker is restored to the closed position; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With the position indicator of any drywell-suppression chamber vacuum breaker inoperable, the provisions of Specification 3.0.4 are not applicable, and operation may continue provided the surveillance requirements of Specification 4.6.4.1.b are performed within 8 hours and at least once per 72 hours thereafter, until the inoperable position indicator is returned to OPERABLE status; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

ATTACHMENT TO LICENSE AMENDMENT NO. 159

FACILITY OPERATING LICENSE NO. DPR-62

DOCKET NO. 50-324

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised areas are indicated by marginal lines.

Remove Pages

3/4 6-18

Insert Pages

3/4 6-18

## CONTAINMENT SYSTEMS

### 3/4.6.4 VACUUM RELIEF

#### DRYWELL - SUPPRESSION CHAMBER VACUUM BREAKERS

##### LIMITING CONDITION FOR OPERATION

---

3.6.4.1 All drywell-suppression chamber vacuum breakers shall be OPERABLE and in the closed position with:

- a. The position indicator OPERABLE, and
- b. An opening setpoint of less than or equal to 0.5 psid.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

##### ACTION:

- a. With no more than 2 drywell-suppression chamber vacuum breakers inoperable for opening but known to be in the closed position, the provisions of Specification 3.0.4 are not applicable and operation may continue until the next COLD SHUTDOWN provided the surveillance requirements of Specification 4.6.4.1.a are performed on the OPERABLE vacuum breakers within 4 hours and at least once per 15 days thereafter until the inoperable vacuum breakers are restored to OPERABLE status; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With one drywell-suppression chamber vacuum breaker in the open position, as indicated by the position indicating system, the provisions of Specification 3.0.4 are not applicable and operation may continue provided the surveillance requirements of Specification 4.6.4.1.a are performed on the OPERABLE vacuum breakers and the surveillance requirements of Specification 4.6.4.1.b are performed within 8 hours and at least once per 72 hours thereafter until the inoperable vacuum breaker is restored to the closed position; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With the position indicator of any drywell-suppression chamber vacuum breaker inoperable, the provisions of Specification 3.0.4 are not applicable and operation may continue, provided the surveillance requirements of Specification 4.6.4.1.b are performed within 8 hours and at least once per 72 hours thereafter until the inoperable position indicator is returned to OPERABLE status; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 129 TO FACILITY OPERATING LICENSE NO. DPR-71  
AND AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE NO. DPR-62

CAROLINA POWER & LIGHT COMPANY et al.

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2

DOCKET NOS. 50-325 AND 50-324

1.0 INTRODUCTION

By letter dated September 19, 1988, Carolina Power & Light Company (the licensee) submitted a request for changes to the Brunswick Steam Electric Plant, Units 1 and 2, Technical Specifications (TS).

The amendments revise the actions associated with TS 3/4.6.4 (Drywell - Suppression Chamber-Vacuum Breakers) to clarify the alternative actions to be taken if the existing actions cannot be taken. Specifically, existing action 3.6.4.1.d will be incorporated into actions 3.6.4.1.a, 3.6.4.1.b., and 3.6.4.1.c and present action 3.6.4.1.d will be deleted to clarify that in the event any of these action statements applies, the unit will be placed in hot shutdown within twelve hours and in cold shutdown within the next twenty-four hours.

2.0 EVALUATION

Technical Specification 3.6.4.1 requires that all drywell-suppression chamber vacuum breakers be OPERABLE and in the closed position with the position indicator OPERABLE, and with an opening setpoint of less than or equal to 0.5 psid. This requirement applies in Operational Conditions 1, 2, and 3.

Four action statements are currently associated with TS 3.6.4.1. Action 3.6.4.1.a applies if no more than two drywell-suppression chamber vacuum breakers are inoperable for opening, but are known to be in the closed position. Action 3.6.4.1.b applies if one drywell-suppression chamber vacuum breaker is in the open position, as indicated by the position indicating system. Action 3.6.4.1.c applies if the position indicator of any drywell-suppression chamber vacuum breaker is inoperable. Action 3.6.4.1.d states, "Otherwise, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours."

The purpose of Action 3.6.4.1.d is to provide alternate action requirements if the requirements specified in Action 3.6.4.1.a, 3.6.4.1.b, or 3.6.4.1.c cannot be met. For example, if the circumstances described in Action 3.6.4.1.a apply, but Surveillance Requirement 4.6.4.1.a cannot be performed on the vacuum breakers within 4 hours, Action 3.6.4.1.d applies.

8905030473 890424  
PDR ADOCK 05000324  
P FDC

The licensee believes that the way in which the existing actions are listed could imply that if the circumstances of Actions 3.6.4.1.a, 3.6.4.1.b, or 3.6.4.1.c do not apply, then TS 3.0.3 should be followed instead of following the requirements of Action 3.6.4.1.d. The TS 3.0.3 requirements are that the unit be placed in at least hot shutdown within 6 hours and in cold shutdown within the following 30 hours unless corrective measures are completed that permit operation under the permissible action statements. These TS actions need further clarification to remedy such confusion in interpretations of TS.

The licensee concludes that the proposed changes will eliminate confusion over the interpretation of TS 3.6.4.1 action statements. The requirement described in Action 3.6.4.1.d will be included in each of the previous action statements, 3.6.4.1.a, 3.6.4.1.b, and 3.6.4.1.c, so that it is clear that the alternative action is not TS 3.0.3, but to be in at least hot shutdown within 12 hours and in cold shutdown within the next 24 hours.

The original purpose of Action 3.6.4.1.d was to define the licensee's course of action if Action 3.6.4.1.a, or 3.6.4.1.b, or 3.6.4.1.c could not be met. The present Action 3.6.4.1.d was originally placed in the TS because we did not intend that the six hour hot shutdown requirement of TS 3.0.3 be required. Our position for Action 3.6.4.1.d is only clearer by the proposed changes. On this basis, the changes are clarifications in TS which are acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATIONS

These amendments change a requirement with respect to installation or use of a facility component located within the restricted areas as defined in 10 CFR Part 20. The staff has determined that these amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released off site; and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, these amendments meet 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 these amendments.

### 4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration which was published in the Federal Register (54 FR 9915) on March 8, 1989, and consulted with the State of North Carolina. No public comments or requests for hearing were received, and the State of North Carolina did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: E. Tourigny

Dated: April 24, 1989