

OCT 13 1977

OCT 13 1977

Docket No. 50-324

DISTRIBUTION
 Docket
 NRC PDR
 LOCAL PDR
 ORB#1 Reading
 ASchwencer
 KRGo1ler
 TJCarter
 VStello
 DEisenhut
 SMSheppard
 CMTrammell
 OELD
 OI&E(5)
 ACRS(16)

Carolina Power & Light Company
 ATTN: Mr. J. A. Jones
 Executive Vice President
 336 Fayetteville Street
 Raleigh, North Carolina 27602

Gentlemen:

The Commission has issued the enclosed Amendment No. 33 to Facility Operating License No. DPR-62 for Brunswick Steam Electric Plant Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your request dated October 12, 1977.

The amendment, applicable during refueling outage, allows both core spray subsystems to be rendered inoperable, provided all operations that have a potential for draining the reactor vessel are suspended and, within 4 hours, at least one LPCI subsystem is verified to be OPERABLE.

Copies of the Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely,

for *TWambach*
 A. Schwencer, Chief
 Operating Reactors Branch #1
 Division of Operating Reactors

Enclosures:

- 1. Amendment No. 33 to DPR-62
- 2. Safety Evaluation
- 3. Notice

BScharf(15)
 BJones(4)
 TBAbernathy
 JRBuchanan
 DRoss
 CMiles, OPA
 BHarless

cc w/encl:
 See next page

FOR OELD CONCURRENCE SEE PREVIOUS YELLOW

Const. 1
GD

OFFICE >	DOR:ORB#1	OELD	DOR:ORB#1			
SURNAME >	OMTrammell:1b	<i>for</i>	ASchwencer			
DATE >	10/13/77	10/ /77	10/13/77			

Docket No. 50-324

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Carolina Power & Light Company
ATTN: Mr. J. A. Jones
Executive Vice President
336 Fayetteville Street
Raleigh, North Carolina 27602

Gentlemen:

The Commission has issued the enclosed Amendment No. to Facility Operating License No. DPR-62 for Brunswick Steam Electric Plant Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your request dated October 12, 1977.

The amendment adds a provision that with both core spray subsystems inoperable, suspend all operations that have a potential for draining the reactor vessel and verify that at least one LPCI subsystem is OPERABLE within 4 hours.

Copies of the Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely,

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

- 1. Amendment No. to DPR-62
- 2. Safety Evaluation
- 3. Notice

BScharf(15)
DEisenhut
BHarless
DRoss
CMiles, OPA
SMSheppard

cc w/encl:
See next page

*Subject to Ltr
change of Notice*

OFFICE >	DOR:ORB#1	OELD	DOR:ORB#1		
SURNAME >	CMTrammell:lb	A. Schwencer	ASchwencer		
DATE >	10/13/77	10/13/77	10/ /77		

Don Neighbors

Correct both Letter and Notice.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-324

CAROLINA POWER AND LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

A. Mitchell
10/13/77
Concur
subject to
these
changes.

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. to Facility Operating License No. DPR-62, issued to Carolina Power and Light Company (the licensee), which revised Technical Specifications for operation of Brunswick Steam Electric Plant, Unit No. 2 (the facility) located in Brunswick County, North Carolina. The amendment is effective as of the date of issuance.

allows

The amendment ^{*applicable during refueling outage, provided*} ~~adds a provision that~~ with both core spray sub-systems ^{*to be rendered inoperable*} ~~inoperable~~, ^{*are suspended and, within 4 hours,*} ~~suspend~~ all operations that have a potential for draining the reactor vessel ^{*and verify that*} ~~and verify that~~ at least one LPCI subsystem ^{*verified to be*} ~~is~~ OPERABLE ^{*within 4 hours.*} ~~within 4 hours.~~

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of the amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of the amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or



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

October 13, 1977

Docket No. 50-324

Carolina Power & Light Company
ATTN: Mr. J. A. Jones
Executive Vice President
336 Fayetteville Street
Raleigh, North Carolina 27602

Gentlemen:

The Commission has issued the enclosed Amendment No. 33 to Facility Operating License No. DPR-62 for Brunswick Steam Electric Plant Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your request dated October 12, 1977.

The amendment, applicable during refueling outage, allows both core spray subsystems to be rendered inoperable, provided all operations that have a potential for draining the reactor vessel are suspended and, within 4 hours, at least one LPCI subsystem is verified to be OPERABLE.

Copies of the Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely,

A. Schwencer

for
A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

1. Amendment No. 33 to DPR-62
2. Safety Evaluation
3. Notice

cc w/encl:
See next page

October 13, 1977

cc: Richard E. Jones, Esquire
Carolina Power & Light Company
336 Fayetteville Street
Raleigh, North Carolina 27602

George F. Trowbridge, Esquire
Shaw, Pittman, Potts & Trowbridge
1800 M Street, NW
Washington, D. C. 20036

John J. Burney, Jr., Esquire
Burney, Burney, Sperry & Barefoot
110 North Fifth Avenue
Wilmington, North Carolina 28401

Southport - Brunswick County Library
109 W. Moore Street
Southport, North Carolina 28461

Mr. Steve J. Varnam
Chairman, Board of County
Commissioners of Brunswick County
Southport, North Carolina 28461

Office of Intergovernmental
Relations
116 West Jones Street
Raleigh, North Carolina 27603

Chief, Energy Systems
Analyses Branch (AW-459)
Office of Radiation Programs
U.S. Environmental Protection Agency
Room 645, East Tower
401 M Street, SW
Washington, D.C. 20460

U.S. Environmental Protection Agency
Region IV Office
ATTN: EIS COORDINATOR
345 Courtland Street, NW
Atlanta, Georgia 30308



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

CAROLINA POWER AND LIGHT COMPANY

DOCKET NO. 50-324

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 33
License No. DPR-62

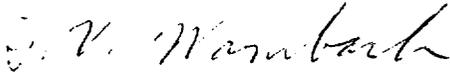
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Carolina Power & Light Company (the licensee) dated October 12, 1977, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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. 33 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

for 
A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 13, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 33

FACILITY OPERATING LICENSE NO. DPR-62

DOCKET NO. 50-324

Revise Appendix A Technical Specifications by removing the following pages and replacing with identically numbered revised pages:

3.5-9/3.5-10

Marginal lines indicate changed area.

LIMITING CONDITIONS FOR OPERATION	SURVEILLANCE REQUIREMENTS
<p><u>3.5.E Automatic Depressurization System (ADS)</u></p> <ol style="list-style-type: none"> 1. The automatic depressurization system shall be operable whenever there is irradiated fuel in the reactor vessel and the reactor pressure is greater than 113 psig and prior to a startup from a cold condition, except as specified in 3.5.E.2 below. 2. From and after the date that one valve in the automatic depressurization system is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding 7 days provided that during such 7 days the HPCI system is operable. 3. If the requirements of 3.5.E.1 through 2 cannot be met, an orderly shutdown shall be initiated and the reactor pressure shall be reduced to at least 113 psig within 24 hours. 	<p><u>4.5.E Automatic Depressurization System (ADS)</u></p> <ol style="list-style-type: none"> 1. During each operating cycle the following test shall be performed on the ADS: A simulated automatic actuation test shall be performed prior to startup after each refueling outage. 2. When one valve of the ADS is made or found to be inoperable, the HPCI system shall be demonstrated to be operable immediately and daily thereafter until the valve is returned to an operable condition.

Change No. 5

Change No. 5

LIMITING CONDITIONS FOR OPERATIONS	SURVEILLANCE REQUIREMENTS
<p data-bbox="168 338 737 432">3.5.F <u>Minimum Low Pressure Cooling and Diesel Generator Availability</u></p> <ol style="list-style-type: none"> <li data-bbox="168 464 764 842">1. Four diesel generators are normally available for dual or single Unit operation. When one diesel generator is made or found to be inoperable, continued reactor operation is permissible only during the succeeding seven days provided that all of the low pressure core and containment cooling subsystems and the remaining diesel generators shall be operable. <li data-bbox="168 856 756 1045">2. If this requirement (3.5.F.1) cannot be met, an orderly shutdown of both units shall be initiated and the reactors shall be placed in the cold-shutdown condition within 24 hours. <li data-bbox="168 1079 745 1304">3. Any combination of inoperable components in the core and containment cooling systems shall not defeat the capability of the remaining operable components to fulfill the cooling functions. <li data-bbox="168 1337 764 1619">4. When irradiated fuel is in the reactor vessel and the reactor is in the cold shutdown condition, both core spray systems, the LPCI and containment cooling subsystems may be inoperable, provided no work is being done which has the potential for draining the reactor vessel. <li data-bbox="168 1652 786 1999">5. During a refueling outage, refueling operation may continue with one core spray system or the LPCI system inoperable for a period of 30 days. With both CSS subsystems inoperable, suspend all operations that have a potential for draining the reactor vessel and verify that at least one LPCI subsystem is OPERABLE within 4 hours. 	<p data-bbox="813 331 1446 394">4.5.F <u>Minimum Low Pressure Cooling and Diesel Generator Availability</u></p> <ol style="list-style-type: none"> <li data-bbox="813 457 1490 814">1. During dual or single Unit operation, when one diesel generator is made or found to be inoperable, all low pressure core cooling subsystems shall be demonstrated to be operable within 24 hours. In addition, the operable diesel generators shall be demonstrated to be operable within 24 hours and daily thereafter until the diesel generator is returned to an operable condition.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 33 TO LICENSE NO. DPR-62

CAROLINA POWER AND LIGHT COMPANY

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2

DOCKET NO. 50-324

Introduction

By letter dated October 12, 1977, Carolina Power & Light Company (the licensee) requested a change to the Technical Specifications appended to the Brunswick Steam Electric Plant, Unit No. 2 Operating License. This change would provide for both core spray subsystems to be inoperable during the refueling mode.

Discussion and Evaluation

During the current refueling shutdown for the Brunswick Unit No. 2, normal inspections were made of the piping for the core spray systems. Several cracks were found in the core spray subsystem piping system. The licensee intends to replace the piping for both core spray subsystems simultaneously. Performing the work simultaneously saves about three weeks downtime for the Brunswick plant. The existing Technical Specifications do not permit this although it is permitted by the Standard Technical Specifications currently existing and those proposed for the Brunswick Unit 2 to be issued in the near future.

The change proposed as modified by us with the licensee's agreement is as follows to be added to Technical Specification 3.5.F.5:

"With both CSS subsystems inoperable, suspend all operations that have a potential for draining the reactor vessel and verify that at least one LPCI subsystem is OPERABLE within 4 hours."

This change will allow both core spray subsystems to be inoperable during the refueling operations when no work is being performed which could drain the reactor vessel and at least one LPCI subsystem is operable. Suspension of all work which could potentially drain the reactor vessel during refueling makes it highly unlikely that the reactor core would be uncovered. In any event, the LPCI is capable of supplying cooling water to the reactor vessel at a rate of 10,300 gpm to make up for any drainage.

Since it is unlikely that the reactor vessel could be drained, a standby cooling water system is operable, and this provision is provided in existing Standard Technical Specifications which are going to be issued to Brunswick Unit 2, we conclude that this change is acceptable.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level, and will not result in any environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: October 13, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-324

CAROLINA POWER AND LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 33 to Facility Operating License No. DPR-62, issued to Carolina Power and Light Company (the licensee), which revised Technical Specifications for operation of Brunswick Steam Electric Plant, Unit No. 2 (the facility) located in Brunswick County, North Carolina. The amendment is effective as of the date of issuance.

The amendment, applicable during refueling outage, allows both core spray subsystems to be rendered inoperable, provided all operations that have a potential for draining the reactor vessel are suspended and, within 4 hours, at least one LPCI subsystem is verified to be OPERABLE.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of the amendment was not required since the amendment does not involve a significant hazards consideration.

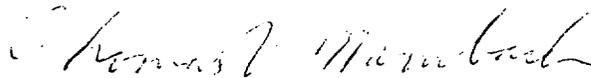
The Commission has determined that the issuance of the amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or

negative declaration and environmental impact appraisal need not be prepared in connection with issuance of the amendment.

For further details with respect to this action, see (1) the application for amendment dated October 12, 1977, (2) Amendment No. 33 to License No. DPR-62, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. and at the Southport-Brunswick County Library, 109 West Moore Street, Southport, North Carolina 28461. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 13th day of October 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas V. Wambach, Acting Chief
Operating Reactors Branch #1
Division of Operating Reactors