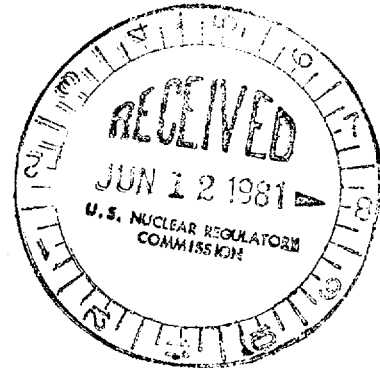


Docket File

JUNE 3 1981

Docket Nos. 50-325  
and 50-324



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

Dear Mr. Jones:

The Commission has issued the enclosed Amendment Nos. 37 and 58 to Facility Operating Licenses Nos. DPR-71 and DPR-62 for the Brunswick Steam Electric Plant, Units 1 and 2. The amendments consist of changes to the Licenses in response to your submittal of April 17, 1981.

These changes incorporate into the Licenses operability dates for the modified Augmented Off-Gas system and hydrogen recombiners as proposed in your letter of March 23, 1981. These changes also incorporate into the Licenses submittal dates for proposed Technical Specifications that will invoke effluent release limits reflecting required operation of the Augmented Off-Gas System.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed. You are requested to submit the design information called for in the Safety Evaluation concurrent with submission of the proposed Technical Specifications.

Sincerely,

cp  
1

Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing

Enclosures:

1. Amendment No. 37 to DPR-71
2. Amendment No. 58 to DPR-62
3. Safety Evaluation
4. Notice

cc w/encls:  
See next page

Distribution:

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D. Eisenhut  
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OFFICE	DL: ORB #2	DL: ORB #2	DL: ORB #2	DL: OR	ETSB	OELD	
NAME	S. Norris	J. Van Vliet	T. Ippolito	T. Novak	W. Gammill	K. R. Ryan	
DATE	5/14/81	5/14/81	5/19/81	5/19/81	5/15/81	5/27/81	



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

June 3, 1981

Docket Nos. 50-325  
and 50-324

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Senior Executive Vice President  
Carolina Power & Light Company  
336 Fayetteville Street  
Raleigh, North Carolina 27602


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Sincerely,

  
Thomas A. Appolito, Chief  
Operating Reactors Branch #2  
Division of Licensing

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3. Safety Evaluation
4. Notice

cc w/encls:  
See next page

Mr. J. A. Jones  
Carolina Power & Light Company

cc:

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Carolina Power & Light Company  
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Raleigh, North Carolina 27602

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110 North Fifth Avenue  
Wilmington, North Carolina 28461

Mr. Franky Thomas, Chairman  
Board of Commissioners  
P. O. Box 249  
Bolivia, North Carolina 28422

Denny McGuire (Ms)  
State Clearinghouse  
Division of Policy Development  
116 West Jones Street  
Raleigh, North Carolina 27603

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

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

Resident Inspector  
U. S. Nuclear Regulatory Commission  
P. O. Box 1057  
Southport, North Carolina 28461

Mr. Charles R. Dietz  
Plant Manager  
P. O. Box 458  
Southport, North Carolina 28461



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

CAROLINA POWER & LIGHT COMPANY

DOCKET NO. 50-325

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.37  
License No. DPR-71

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for Amendment by Carolina Power & Light Company dated April 17, 1981 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, Facility Operating License No. DPR-71 is hereby amended by adding paragraph 2.K. to read as follows:

2.K. Augmented Off-Gas System Modifications

The Licensee shall proceed with the necessary design, procurement and construction of the modifications to the Augmented Off-Gas System. By January 15, 1983, the Licensee shall submit proposed Technical Specifications which incorporate effluent limits that

reflect the required operation of the augmented off-gas system. By May 31, 1983, the Licensee shall have the augmented off-gas system operable, and the system shall operate in accordance with the referenced Technical Specifications, as issued.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing

Date of Issuance: June 3, 1981



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

CAROLINA POWER & LIGHT COMPANY

DOCKET NO. 50-324

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 58  
License No. DPR-62

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for Amendment by Carolina Power & Light Company dated April 17, 1981 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, Facility Operating License No. DPR-62 is hereby amended by adding paragraph 2.H. to read as follows:

2.H. Augmented Off-Gas System Modifications

The Licensee shall proceed with the necessary design, procurement and construction of the modifications to the Augmented Off-Gas System. By July 15, 1983, the Licensee shall submit proposed Technical Specifications which incorporate effluent limits that

reflect the required operation of the augmented off-gas system. By December 31, 1983, the Licensee shall have the augmented off-gas system operable, and the system shall operate in accordance with the referenced Technical Specifications, as issued.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing

Date of Issuance: June 3, 1981



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 37 TO FACILITY LICENSE NO. DPR-71 AND  
AMENDMENT NO. 58 TO FACILITY LICENSE NO. DPR-62  
CAROLINA POWER & LIGHT COMPANY  
BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 and 50-324

I. INTRODUCTION

By letter dated April 17, 1981, Carolina Power & Light Company (the Licensee) proposed revisions to Facility Operating License Nos. DPR-71 and DPR-62 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2. The revisions incorporate operability dates for the modified Augmented Off-Gas System and hydrogen recombiners as proposed in the Licensee's letter of March 23, 1981. The revisions also incorporate required submittal dates for proposed Technical Specifications that will invoke effluent release limits reflecting required operation of the Augmented Off-Gas System.

II. BACKGROUND INFORMATION

On July 12, 1976, the Licensee submitted information, in accordance with 10 CFR Part 50, Appendix I, Section VB.1, necessary for us to evaluate the means employed at BSEP Units 1 and 2 for keeping levels of radioactivity in effluents "As Low As Is Reasonably Achievable" (ALARA) and within the design objectives of Appendix I. In that submittal, the Licensee committed to the operation of the Augmented Off-Gas System (AOG) as part of the gaseous rad-waste effluent treatment system to maintain radioactivity in effluents ALARA. The AOG, however, has never been in continuous operation because of engineering difficulties.

In response to our concern about the continued inoperability of the AOG, the Licensee stated, in a letter dated May 18, 1978, that a major AOG modification was necessary. The Licensee further provided, in that letter, an estimated AOG operability date for both BSEP Units 1 and 2 of December 31, 1981. To ensure that annual gaseous release limits were not exceeded during the interim period until AOG operability, we issued, on February 9, 1979, License Amendments for both BSEP Unit Nos. 1 and 2 that revised the Technical Specifications to limit the annual gaseous release to the 10 CFR Part 50, Appendix I design objectives.



Subsequently, by letter dated March 23, 1981, the Licensee informed us that, based on further evaluation of AOG operating experience, the Licensee had decided not to modify the existing cryogenic distillation type AOG, but to replace it with a charcoal adsorber type AOG. This changeout will delay the AOG operability date to May 31, 1983 for BSEP Unit 1 and to December 31, 1983 for BSEP Unit 2.

To preclude future AOG operability schedule slippages, the Licensee has proposed, at our request, the Facility Operating License Amendments appraised by this Safety Evaluation.

### III. EVALUATION

The license conditions proposed by the Licensee are consistent with the objectives of ALARA in that they: (1) establish specific dates for AOG operability for both BSEP Unit Nos. 1 and 2, and (2) establish a requirement for the Licensee to submit proposed Technical Specifications that will invoke effluent release limits reflecting required operation of the AOG. Further, the proposed license conditions do not alter the existing Technical Specification requirements that limit the amount of annual gaseous release to the 10 CFR Part 50, Appendix I design objectives.

We find that the Licensees proposed license conditions for AOG System Modifications are in keeping with our request and are acceptable.

Inasmuch as the Licensee will be installing a charcoal adsorber system in lieu of the cryogenic distillation system that we have previously evaluated, the Licensee should submit sufficient information to show (1) that the charcoal adsorber system conforms with 10 CFR Parts 20, 50.34, 50.34a, 50.36, and 50.36a, and 10 CFR Part 50, Appendix A, General Design Criteria 60 and 64, (2) that releases will meet the requirements of 10 CFR Part 50, Appendix I, and (3) that the modification meets the acceptance criteria of the Standard Review Plans in NUREG-0800. This information should be submitted concurrent with submission of the proposed Technical Specifications.

### IV. ENVIRONMENTAL CONSIDERATION

We have determined that the amendments do not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR Section 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 the amendments.

V. CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: June 3, 1981

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-325 AND 50-324CAROLINA POWER & LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 37 and 58 to Facility Operating License Nos. DPR-71 and DPR-62 issued to Carolina Power & Light Company (the licensee) which revised the Licenses for operation of the Brunswick Steam Electric Plant, Units Nos. 1 and 2 (the facility), located in Brunswick County, North Carolina. The amendments are effective as of the date of issuance.

These changes to the Licenses involve incorporation of required operability dates for the modified Augmented Off-Gas Systems at the facility.


The application for amendments 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 amendments. Prior public notice of the amendments was not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of the amendments will not result in any significant environmental impact and that pursuant to 10 CFR Section 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 amendments.

For further details with respect to this action, see (1) the application for amendments dated April 17, 1981, (2) Amendment Nos. 37 and 58 to License Nos. DPR-71 and DPR-62, and (3) the Commission's related Safety Evaluation. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., 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 Licensing.

Dated at Bethesda, Maryland, this 3rd day of June 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing