

DEC 27 1974

Dist:

Docket 50-324

AEC/PDR

L/PDR

LWR 1-2 File

D. Kartalia, OGC bcc:

RO (3)

NDube w/o TS

M. Jinks w/2 encl.

RCDeYoung

R. Vollmer

C. Hebron, F&M

D. Foster, F&M

A. Braitman, OAI w/o TS

R. Powell

M. Maigret

S. Kari w/o TS

W. Miller, DR:OA w/o TS

M. Grotenhuis, EP-2

P. Kreutzer, EP-2

LWR -1 Br. Chiefs

D. Muller, A/D EP

B. Schraf (15)

Docket No. 50-324

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

Dear Mr. Jones:

The Atomic Energy Commission has issued Facility Operating License No. DPR-62 to the Carolina Power and Light Company, the licensee. DPR-62 authorizes operation of the Brunswick Steam Electric Plant, Unit 2 in accordance with the Technical Specifications, Appendices A & B, attached thereto. The steady state reactor core power levels authorized by DPR-62 shall not exceed 2436 megawatts thermal. A copy of the license and the Technical Specifications are provided in Enclosure 1.

Note that the Technical Specification, Appendix A, Section 6.14 provides that the licensee shall not undertake initial criticality or accomplish initial opening of the main steamline isolation valves after the initial criticality, until specifically approved in writing by the Commission. Representatives of the Directorate of Regulatory Operations will be at the site during fuel loading operations and will verify that those remaining preoperational system tests listed in Enclosure 2, which must be completed prior to initial criticality and prior to initial opening of the main steam line isolation valves following the initial criticality, and your review of any exception, have been completed. We will inform you promptly of the results of their review. On satisfactory verification of the items identified in Enclosure 2, we will prepare the necessary approval in accordance with Section 6.14 of Appendix A of the Technical Specifications.

A related notice, which is being forwarded to the Office of the Federal Register for filing and publication, is provided in Enclosure 3 for your information.

Two signed originals of Amendment No. 2 to Indemnity Agreement No. E-71 which covers the activities authorized under License No. DPR-62, are

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DEC 27 1974

provided in Enclosure 4, for your review and acceptance. One copy of this agreement should be retained by the licensee and one signed copy should be returned to this office.

Sincerely,

5/

R. C. DeYoung, Assistant Director
for Light Water Reactors Group 1
Directorate of Licensing

Enclosures:

1. License No. DPR-62 w/Tech. Specs. A & B
2. List of Outstanding Items
3. Federal Register Notice
4. Indemnity Agreement - Amendment No. 2 to B-71

Rewritten per OGC request - See previous yellow for concurrences

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SURNAME	MJMalret	W MASSAR	R DeYoung
DATE	12/27/74	12/27/74	12/27/74

DEC 27 1974

cc: Sherwood H. Smith Esq.
 Vice President & General Counsel
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 Wilmington, North Carolina 28401

Ms. Janet Godwin, President
 Project Environment
 202 Bedford Road East
 Wilmington, North Carolina 28401

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

Mr. W. A. Kopp, Jr.
 Chairman, Board of County Commissioners
 of Brunswick County
 Bolivia, North Carolina 28422

Mr. Elmer Whitten
 State Clearinghouse
 Office of the Governor
 Division of Administration
 1205 Pendleton Street
 4th Floor
 Columbia, South Carolina 29201

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Mr. J. A. Jones

- 4 -

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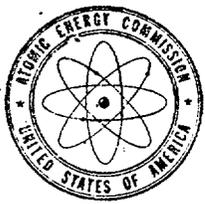
Mr. J. A. Jones

- 5 -

Chief, TIRB
Technology Assessment Division
Office of Radiation Programs
Environmental Protection Agency
Room 647A East Tower
Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

Mr. Dave Hopkins
Environmental Protection Agency
1421 Peachtree Street, N. E.
Atlanta, Georgia 30309

Mr. Bruce Blanchard
Environmental Projects Review
Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

CAROLINA POWER & LIGHT COMPANY

DOCKET NO. 50-324

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2

FACILITY OPERATING LICENSE

License No. DPR-62

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by Carolina Power & Light Company (the licensee) 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 and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Brunswick Steam Electric Plant, Unit 2 (facility) has been substantially completed in conformity with Construction Permit No. CPPR-67 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance: (i) that the activities authorized by this operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - E. The licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;

- F. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Facility Operating License No. DPR-62 subject to the conditions for protection of the environment set forth herein is in accordance with Appendix D to 10 CFR Part 50, of the Commission's regulations and all applicable requirements have been satisfied; and
 - I. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Part 30, 40, and 70, including 10 CFR Section 30.33, 40.32, and 70.23 and 70.31.
2. Facility Operating License No. DPR-62 is hereby issued to the Carolina Power & Light Company to read as follows:
- A. This license applies to the Brunswick Steam Electric Plant, Unit 2, a boiling water reactor and associated equipment (the facility), owned by the Carolina Power & Light Company. The facility is located on the Cape Fear River, near Southport in Brunswick County, North Carolina, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 1 through 29) and the "Environmental Report" as supplemented and amended (Supplements 1 through 7).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Carolina Power & Light Company:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Brunswick County, North Carolina, in accordance with the procedures and limitations set forth in this license;

- (2) Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- (3) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Pursuant to the Act and 10 CFR Part 30, to receive, possess and use at any time 100 millicuries each of any byproduct material without restriction to chemical or physical form, for sample analysis of instrument calibration;
- (5) Pursuant to the Act and 10 CFR Parts 40 and 70, to receive, possess and use at any time 100 milligrams each of any source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration;
- (6) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

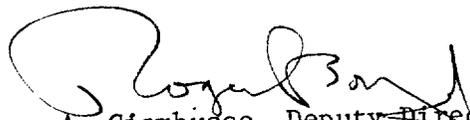
The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 2436 megawatts (thermal).

(2) Technical Specifications

The Technical Specifications contained in Appendices A & B attached hereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications.

- D. This license is subject to the following additional conditions for the protection of the environment:
- a. If during operation of the facility, the monitoring program indicates that a serious adverse environmental impact is occurring, the licensee will promptly take steps to reduce such impact to an acceptable level and seek ways of alleviating any impact which is unavoidable.
 - b. The licensee will perform an evaluation of the technical feasibility, cost and environmental impact of alternatives to the existing discharge canal for the disposition of cooling tower blowdown and other facility effluents and will report the results of such evaluation to the Staff and to Project Environment, the intervenor in the Commission's licensing proceedings, within eight months of the issuance of this license.
 - c. The licensee shall comply with all the terms, provisions, and conditions of the "Stipulation by Applicant, Intervenor and AEC Regulatory Staff" dated July 8, 1974, required to be performed by the licensee, including, but not limited to, any conditions expressly noted in a and b above.
 - d. The licensee shall comply with the requirements of the Environmental Technical Specifications which accompany the operating license and, to the extent that such requirements are modified by conditions contained in a permit, hereafter issued pursuant to Section 402 of the Federal Water Pollution Control Act, as amended, the licensee shall comply with the effluent limitations contained in such permit when they become applicable.
- E. This license is effective as of the date of issuance and shall expire at midnight, February 6, 2010.

FOR THE ATOMIC ENERGY COMMISSION


 A. Giambusso, Deputy Director
 for Reactor Projects
 Directorate of Licensing

Attachment:
 Appendices A & B -
 Technical Specifications

Date of Issuance: DEC 27 1974

ENCLOSURE 2

BRUNSWICK STEAM ELECTRIC PLANT UNIT 2

OUTSTANDING ITEMS LIST

DOCKET NO. 50-324

1. Items to be Completed Prior to Initial Criticality
 - a. Verify the satisfactory completion of preoperational tests (identified as completion (1) items in Attachment B to CP&L letter to DL dated November 22, 1974), and resolution of any test deficiencies.
 - b. Verify that RHR check valve bonnet nuts (10 CFR 50.55(e) report) deficiencies have been resolved.
 - c. Verify the plant stack exhaust flow measuring capability.
 - d. Verify that operating procedure deficiencies have been resolved.
 - e. PO-1 - Verify that the five containment boundary valves have been tested.
 - Verify that the boundary valve with a flat rubber gasket has been replaced with an "o" ring.
 - f. PO-5 - Verify that the defective temperature switch has been replaced.
 - Verify that the equalizer bypass valve closure time is correct.
 - g. PO-6 - Verify that the cables for remote shutdown panel are installed.
 - Verify that the check valves have been tested.
 - Verify that the RHR auto fill station is operable.
 - Verify that the auto minimum flow valve is operable.
 - h. PO-10 - Verify that the standby LCS Manual valve limit switch is installed (valve to be locked open).
 - i. PO-14 - Verify that the sixteen RPS instruments are calibrated.
 - j. PO-46 - Verify that the drywell pump flow recording for equipment and floor drains are operable (part of RCC leakage detection)

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- k. PO-55-2 - Verify that the permanent doors (2) on radwaste building are installed.
 - Verify that the permanent seals on radwaste building doors are installed.
 - Verify that the permanent door between radwaste and control building are installed.
- l. PO-57 - Verify that the Rx building monitor downscale setpoint is correct.
- m. PO-74 - Verify that the control building high radwaste monitor logic is complete, and annunciator is operable.
 - Verify that the eight radwaste area monitor inputs to recorder are complete.
- n. PO-86 - Verify that the Tack Pac for diesel generators is installed.
- o. PO-89 - Verify that the burned out primary containment isolation valve motor (2-E41-F042) is replaced.
 - Verify that the pressure switch for shutdown cooling is installed.
 - Verify that the traveling-in-core probe withdrawal signal for Group II isolation has been tested.
 - Verify that the RCIC steam line isolation valves are operable.
 - Verify that the cables on two RIP valves (pulled cables too short) have been replaced.

2. Items to be Completed Prior to Opening Main Steam Isolation Valves

- a. Verify the satisfactory completion of preoperational tests (identified as completion items (2) in Attachment B to CP&L letter to DL dated November 22, 1974).
- b. PO-15 - Verify the setpoint for bypass is set according to the technical specifications.
- c. PO-46 - Verify the control logic being modified for off-gas drain tank and pumps is completed.
 - Verify that the wiring and controls for valve 2-RCC-V54 have been installed.
- d. PO-89 - Verify that the position indication switch on MSIVs are set.
 - Verify that the closing time on two valves (HPCI steam line isolation and RHR discharge to radwaste) are correct.
 - Verify that the wiring for CAC section of Group II isolation is complete.

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- Verify that the three reactor instrument penetration valves are operable.

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-324

NOTICE OF AVAILABILITY OF INITIAL DECISION OF THE
ATOMIC SAFETY AND LICENSING BOARD FOR THE
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2
AND ISSUANCE OF A FACILITY OPERATING LICENSE

Pursuant to the National Environmental Policy Act of 1969 and the United States Energy Commission's regulations in Appendix D, Section A.9 and A.11, to 10 CFR Part 50, notice is hereby given that an Initial Decision, dated December 26, 1974, by the Atomic Safety and Licensing Board in the above captioned proceeding authorizing issuance of an operating license to Carolina Power & Light Company for authorization to operate the Brunswick Steam Electric Plant, Unit 2 facility located at the licensee's site on the Cape Fear River, near Southport in Brunswick County, North Carolina, is available for inspection by the public in the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. and in the Southport - Brunswick County Library, 109 W. Moore Street, Southport, North Carolina 28461.

The Initial Decision is also being made available at the Office of Intergovernmental Relations, 116 West Jones Street, Raleigh, North Carolina 27603 and at the Cape Fear Council of Governments, 1 North Third, Suite 206, Wilmington, North Carolina 28401.

The Initial Decision of the Atomic Safety and Licensing Board modified in certain respects the contents of the Final Environmental Statement

prepared by the Commission's Directorate of Licensing relating to the operation of the Brunswick Steam Electric Plant, Unit 2. A copy of this Final Environmental Statement is also available for public inspection at the above designated locations.

Pursuant to the provisions of 10 CFR Part 50, Appendix D, Section A.11, the Final Environmental Statement is deemed modified to the extent that the findings and conclusions relating to environmental matters contained in the Initial Decision are different from those contained in the Final Environmental Statement, dated January 1974. As required by Section A.11 of Appendix D, copies of the Initial Decision by the Atomic Safety and Licensing Board and the Final Environmental Statement have been transmitted to the Council on Environmental Quality and made available to the public as noted herein.

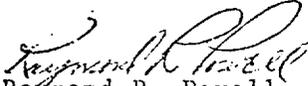
Pursuant to the above mentioned Initial Decision, the Atomic Energy Commission (the Commission) has issued Facility Operating License No. DPR-62 to Carolina Power & Light Company for operation of the Brunswick Steam Electric Plant, Unit 2, a boiling water reactor, at steady state reactor core levels not to exceed 2436 megawatts thermal. The license is effective as of its date of issuance and shall expire on February 6, 2010.

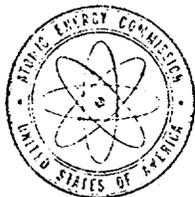
In addition to the Initial Decision, copies of (1) Facility Operating License No. DPR-62, (2) the report of the Advisory Committee on Reactor Safeguards, dated December 11, 1973, (3) the Directorate of Licensing's

Safety Evaluation, dated November 1973, (4) Supplement No. 1 to the Safety Evaluation, dated January 31, 1974, (5) Supplement No. 2 to the Safety Evaluation, dated December 23, 1974, (6) the Final Safety Analysis Report and amendments thereto, (7) the applicant's Environmental Statement, dated June 15, 1973 and (8) the Final Environmental Statement, dated January 1974, are available for public inspection at the above designated locations in Washington, D. C. and in Southport and Wilmington, North Carolina. Single copies of the Initial Decision by the Atomic Safety and Licensing Board, Facility Operating License No. DPR-62, the Final Environmental Statement, and the Safety Evaluation and amendments may be obtained upon request addressed to the U. S. Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 27th day of December 1974.

FOR THE ATOMIC ENERGY COMMISSION


Raymond R. Powell, Acting Chief
Light Water Reactors Project Branch 1-2
Directorate of Licensing



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

Docket Nos. 70-1493
50-324
50-325

AMENDMENT TO INDEMNITY AGREEMENT NO. B-71

AMENDMENT NO. 2

Effective December 27, 1974, Indemnity Agreement No. B-71, between Carolina Power & Light Company and the Atomic Energy Commission, dated January 14, 1974, as amended, is hereby further amended as follows:

Item 2a of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 2 - Amount of financial protection

- a. \$1,000,000 (From 12:01 a.m., January 14, 1974, to 12 midnight, December 26, 1974, inclusive)
- \$110,000,000 (From 12:01 a.m., December 27, 1974)

Item 3 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

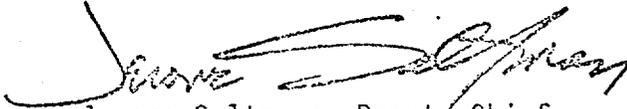
Item 3 - License number or numbers

- SNM-1449 (From 12:01 a.m., January 14, 1974, to 12 midnight, December 26, 1974, inclusive)
- DPR-62 (From 12:01 a.m., December 27, 1974)

Item 5 of the Attachment to the indemnity agreement is amended by adding the following:

Nuclear Energy Liability Policy (Facility Form) No. MF-80
issued by Mutual Atomic Energy Liability Underwriters.

FOR THE UNITED STATES ATOMIC ENERGY COMMISSION



Jerome Saltzman, Deputy Chief
Office of Antitrust & Indemnity
Directorate of Licensing

Accepted _____, 1974

By _____
CAROLINA POWER & LIGHT COMPANY