

Docket No. 50-261

May 13, 1985

*See Correction letter
of 5/29/85*

Mr. E. E. Utley, Executive Vice President
Power Supply and Engineering and Construction
Carolina Power and Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Utley:

The Commission has issued the enclosed Amendment No. 90 to Facility Operating License No. DPR-23 for the H. B. Robinson Steam Electric Plant Unit No. 2. This amendment consists of changes to the Technical Specifications in response to your request dated September 19, 1984.

The amendment would change the Technical Specifications from requiring the station batteries equalizing charge to be performed monthly to performing the charge annually.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular monthly Federal Register notice.

Sincerely,

/s/GRequa

Glode Requa, Project Manager
Operating Reactors Branch #1
Division of Licensing

Enclosures:

- 1. Amendment No. 90 to DPR-23
- 2. Safety Evaluation

cc: w/enclosures
See next page

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Mr. E. E. Utley
Carolina Power and Light Company

H. B. Robinson Steam Electric Plant

cc: G. F. Trowbridge, Esquire
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Mr. Dayne H. Brown, Chief
Radiation Protection Branch
Division of Facility Services
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Mr. McCuen Morrell, Chairman
Darlington County Board of Supervisors
County Courthouse
Darlington, South Carolina 29535

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Division of Policy Development
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Hartsville, South Carolina 29550



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

CAROLINA POWER AND LIGHT COMPANY

DOCKET NO. 50-261

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 90
License No. DPR-23

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Carolina Power and Light Company (the licensee) dated September 19, 1984, 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 3.B of Facility Operating License No. DPR-23 is hereby amended to read as follows:

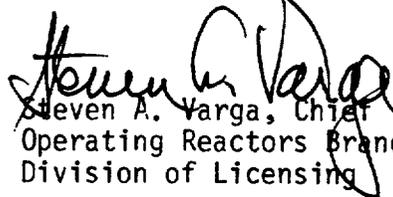
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(B) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 90, 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


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 13, 1985

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 90 FACILITY OPERATING LICENSE NO. DPR-23

DOCKET NO. 50-261

Revise Appendix A as follows:

Remove Page

4.6-2

Insert Page

4.6-2

bypasses listed in Specification 3.7.1.d shall be demonstrated to be operable by simulating a trip signal to each of the trip devices that is bypassed and observing that the diesel does not trip.

4.6.1.3 Each diesel generator shall be inspected at each refueling.

4.6.1.4 Diesel generator electric loads shall not be increased beyond the long term rating of 2500 kW.

4.6.2 Diesel Fuel Tanks

A minimum fuel oil storage of 19,000 gallons will be maintained at all times in the diesel generator fuel oil storage tank and an additional 6,000 gallons available in the I-C turbine fuel oil storage tank or in the diesel generator fuel oil storage tank.

4.6.3 Station Batteries

4.6.3.1 The voltage and temperature of a pilot cell in each battery shall be measured and recorded daily, 5 days/week.

4.6.3.2 The specific gravity and voltage to the nearest 0.01 volt, the temperature reading of every fifth cell, the height of electrolyte and the amount of water added to each cell shall be measured and recorded monthly.

4.6.3.3 Each battery shall be subjected to an equalizing charge annually. The requirements in 4.6.3.2 above shall be performed after each equalizing charge.

4.6.3.4 At each time data is recorded, new data shall be compared with old to detect signs of abuse or deterioration.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 90 TO FACILITY OPERATING LICENSE NO. DPR-23
CAROLINA POWER AND LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261

Introduction

By a letter dated September 19, 1984, Carolina Power and Light Company (CP&L) requested a revision to the technical specification (TS) for the H. B. Robinson Steam Electric Plant Unit No. 2 (HBR 2) concerning station batteries. The proposed TS change requires that the equalizing charge be performed annually rather than monthly. As a result, the present surveillance requirement 4.6.3.2 on station batteries is to be modified from "each battery is subjected to a 24-hour equalizing charge monthly" to "each battery is subjected to a 24-hour equalizing charge annually."

The licensee stated that their request is based on the manufacturer's recommended interval which reduces unnecessary overcharging of cells and also prevents degradation of the overall battery life. Furthermore, the decreased frequency of the equalizing charge reduces the potential for excessive voltage which, in turn, shortens the expected coil life of the Nbfd relays in the reactor protection system.

Evaluation

An equalizing charge is a special charge placed on a battery when a nonuniformity in voltage or specific gravity has developed between cells. Its purpose is to restore all cells to a fully charged condition and to equalize voltage and specific gravity between cells using a charging voltage higher than the normal floating voltage for a specified number of hours. The requirements and recommendations for maintenance, testing, and replacement of station batteries are outlined in IEEE-Std-450-1975 which recommends that an equalizing charge should be given:

- 1) if the specific gravity of an individual cell is more than 0.01 below the average installation value
- 2) if any cell voltage is below 2.13V
- 3) if not required by 1) and 2) above, an equalizing charge should be given at least once each 18 months.

The licensee's proposed annual equalizing charge is consistent with the guidelines stated in the IEE-Std-450-1975, therefore, we conclude that the proposed changes are acceptable.

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Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sec 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 this amendment.

Conclusion

We have 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: May 13, 1985

Principal Contributor:

P. Kang