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Docket No. 50-261

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

Gentlemen:

The Commission has issued the enclosed Amendment No. 18 to Facility Operating License No. DPR-23 for the H. B. Robinson Steam Electric Plant Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application dated January 16, 1976.

This amendment revises the Technical Specifications to permit a change to the valves utilized to isolate the containment spray system during testing of the containment spray additive valves.

Copies of the Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

Original signed by
Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosures:
1. Amendment No. 18
2. Safety Evaluation
3. Federal Register Notice

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

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Robert W. Reid, Chief
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cc w/enclosures:
G. F. Trowbridge, Esquire
Shaw, Pittman, Potts, Trowbridge & Madden
Barr Building
910 17 Street, N. W.
Washington, D. C. 20006

Mr. McCuen Morrell, Chairman
Darlington County Board of Supervisors
County Courthouse
Darlington, South Carolina 29532

Hartsville Memorial Library
Home and Fifth Avenues
Hartsville, South Carolina 29550

John D. Whisenhunt, Esquire
Bridges and Whisenhunt
Bridges Building
P. O. Box 26
Florence, South Carolina 29501

cc w/enclosures & incoming
dated

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

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. 18
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 January 16, 1976, 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 regulation;

   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. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Attachment:
Changes to the
Technical Specifications

Date of Issuance:
January 27, 1976

ATTACHMENT TO LICENSE AMENDMENT NO. 18

FACILITY OPERATING LICENSE NO. DPR-23

DOCKET NO. 50-261

Replace page 4.5-3 of the Technical Specifications with the attached revised page. The changed area on this page is indicated by a marginal line.

4.5.2.4 The spray additive valves shall be tested with the pumps shutdown and the containment spray pump suction valves closed. Each spray additive valve will be opened and closed by operator action at intervals not to exceed one month.

4.5.2.5 The accumulator check valves will be checked for operability during each refueling shutdown.

4.5.2.6 The refueling water storage tank outlet valves shall be tested in performing the respective pump tests.

Basis:

The Safety Injection System and the Containment Spray System are principal plant safeguards that are normally inoperative during reactor operation. Complete systems tests cannot be performed when the reactor is operating because a safety injection signal causes reactor trip, main feedwater isolation and containment isolation, and a Containment Spray System test requires the system to be temporarily disabled. The method of assuring operability of these systems is therefore to combine systems tests to be performed during annual plant shutdowns, with more frequent component tests, which can be performed during reactor operation.

The systems tests demonstrate proper automatic operation of the Safety Injection and Containment Spray Systems. A test signal is applied to initiate automatic action and verification made that the components receive the safety injection in the proper sequence. The test demonstrates the operation of the valves, pump circuit breakers, and automatic circuitry. (1,2, 4)

During reactor operation, the instrumentation which is depended on to initiate safety injection and containment spray is generally checked each shift and the initiating circuits are tested monthly (in accordance with Specification 4.1). The testing of the analog channel inputs is accomplished in the same manner as for the reactor protection system. The engineered safety features logic system is tested by means of test switches to simulate

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 18 TO LICENSE NO. DPR-23

CAROLINA POWER AND LIGHT COMPANY

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

DOCKET NO. 50-261

Introduction

By letter dated January 16, 1976, Carolina Power and Light Company (CP&L) requested a change to Technical Specifications appended to Facility Operating License No. DPR-23 for the H. B. Robinson Steam Electric Plant Unit 2 (Robinson-2). CP&L requested that the Technical Specifications be amended to permit a change in the valves utilized to isolate the containment spray system during testing of the containment spray additive valves.

Evaluation

Robinson-2 is presently operating with Technical Specifications that require that the containment spray system be isolated from the Emergency Core Cooling System by closing the valves to the Refueling Water Storage Tank (RWST) during monthly testing of the spray additive system valves. The containment spray system must be isolated in some manner during this test so that the spray additive system valves can be tested (the electric motor operated valves are driven open then closed) without actually spraying the containment building. CP&L has proposed that the containment spray system be isolated by closing the two containment spray pump suction valves rather than the two RWST valves.

The manner of accomplishing the isolation as proposed by CP&L provides some safety advantage in that use of the containment spray pump suction valves during the test isolates the containment spray system from the ECCS water supply without isolating other portions of the ECCS from the RWST, which is the basic source of water for the ECCS. Use of the RWST valves for isolation isolates the RWST from the containment spray system, but it also isolates the RWST from other portions of the ECCS such as the low pressure and high pressure injection systems. The existing requirement is less desirable than the proposed approach.

If during a containment spray additive system valve test, a low probability event such as a loss-of-coolant accident (LOCA) occurred, the RWST valves would have to be opened before the ECCS system could be activated. Failure of these valves to open or a delay in valve opening would compromise the effectiveness of the ECCS. To preclude this possibility the two RWST valves are always kept open during normal operation with power to the electric valve motors deenergized to prevent the possibility of the motor-driven valves from being closed even as a result of a valve motor failure. The proposal by CP&L would allow the RWST valves to remain open during the containment spray additive system valve tests and the RWST valve alignment would be consistent with normal operating position.

As a result of our review, we conclude that the proposal for containment spray system isolation during the containment spray additive valve tests represents an improvement in the level of safety during valve testing and is acceptable.

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

Date:
January 27, 1976

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-261

CAROLINA POWER AND LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 18 to Facility Operating License No. DPR-23 issued to Carolina Power and Light Company which revised Technical Specifications for operation of the H. B. Robinson Steam Electric Plant Unit No. 2, located in Darlington County, Hartsville, South Carolina. The amendment is effective as of its date of issuance.

The amendment revises the Technical Specifications to permit a change to the valves utilized to isolate the containment spray system during testing of the containment spray additive valves.

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 this amendment is not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated January 16, 1976, (2) Amendment No. 18 to License No. DPR-23, 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 N. W., Washington, D. C. and the Hartsville Memorial Library, Home and Fifth Avenue, Hartsville, South Carolina.

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 27th day of January, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors