

September 5, 1989

Docket No. 50-261

DISTRIBUTION
See attached page

Mr. Lynn W. Eury
Executive Vice President
Power Supply
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: ISSUANCE OF AMENDMENT NO. 123 TO FACILITY OPERATING LICENSE NO.
DPR-23 - H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2,
REGARDING TESTING OF MOLDED CASE CIRCUIT BREAKERS (MCCB)
(TAC NO. 73103)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 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 April 27, 1989.

The amendment adds surveillance requirements for testing of the MCCB associated with the auxillary feedwater system valve V2-16A and service water system valve VG-16C.

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

Sincerely,

Original Signed By:

Ronnie H. Lo, Senior Project Manager
Project Directorate II-1
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 123 to DPR-23
2. Safety Evaluation

cc w/enclosures:
See next page

OFOI

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OFC	: LA: PD21: DRAR: PM: PD21: DRPR: D: PD21: DRPR:	:	:	:	:
NAME	: PAnderson : RLo: sw : EAdensam	:	:	:	:
DATE	: 8/9/89 : 8/9/89 : 8/5/89	:	:	:	:

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C/P-1
Eury

Mr. Lynn W. Eury
Carolina Power & Light Company

cc:

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Special Deputy Attorney General
State of North Carolina
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H. B. Robinson Steam Electric
Plant, Unit No. 2

Mr. Dayne H. Brown, Chief
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Mr. C. R. Dietz
Manager, Robinson Nuclear Project
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South Carolina Department of Health
and Environmental Control
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Columbia, South Carolina 29201

AMENDMENT NO. 123 TO FACILITY OPERATING LICENSE NO. DPR-23 - ROBINSON,
UNIT NO. 2

Docket File
NRC PDR
Local PDR
PDII-1 Reading
S. Varga (14E4)
G. Lainas
E. Adensam
P. Anderson
R. Lo
OGC
D. Hagan (MNBB 3302)
E. Jordan (MNBB 3302)
B. Grimes (9A2)
T. Meeks (4) (P1-137)
W. Jones (P-130A)
J. Calvo (11D3)
F. Rosa (8D20)
ACRS (10)
GPA/PA
ARM/LFMB

cc: Licensee/Applicant Service List



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

CAROLINA POWER & LIGHT COMPANY

DOCKET NO. 50-261

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

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 123
License No. DPR-23

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Carolina Power & Light Company (the licensee), dated April 27, 1989, 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:

(B) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 123, are hereby incorporated in the license. Carolina Power & Light Company 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

*15/EAR
for EGA*

Elinor G. Adensam, Director
Project Directorate II-1
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance:

OFC	: LA: PD21: DRPR: PM: PD21: DRPR: NRR: SELB	OGC	: D: PD21: DRPR :	:	:
NAME	: PANDerson	: RLo: sw	: FROsa	: EAdensam	:
DATE	: 8/9/89	: 8/9/89	: 8/11/89	: 8/13/89	: 9/5/89

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ATTACHMENT TO LICENSE AMENDMENT NO.123

FACILITY OPERATING LICENSE NO. DPR-23

DOCKET NO. 50-261

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas is indicated by marginal lines.

Remove Pages

4.1-14

Insert Pages

4.1-14

TABLE 4.1-3 (Continued)

FREQUENCIES FOR EQUIPMENT TESTS

<u>Check</u>	<u>Frequency</u>	<u>Maximum Time Between Test</u>
	2. Whenever integrity of a pressure isolation valve listed in Table 3.1-1 cannot be demonstrated, the integrity of the remaining valve in each high pressure line having a leaking valve shall be determined and recorded daily. In addition, the position of the other closed valve located in the high pressure piping shall be recorded daily.	
18. Automatic Bus Transfers	Test thermal and magnetic trip elements of respective molded case circuit breakers.	Each refueling shutdown.
a) Auxiliary Feedwater Header Discharge Valve to Steam Generator A, V2-16A		NA
b) Turbine Building, Cooling Water Isolation Valve, V6-16C		



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 123 TO FACILITY OPERATING LICENSE NO. DPR-23
CAROLINA POWER & LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261

1.0 INTRODUCTION

By letter dated April 27, 1989, the Carolina Power & Light Company (CP&L) submitted a request for changes to the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR -2) Technical Specifications (TS) to add surveillance requirements to Table 4.1-3 for the automatic bus transfers on the auxiliary feedwater system (AFWS) valve V2-16A and service water (SW) system valve V6-16C. The proposed change would require a refueling interval test of the thermal and magnetic trip of elements of the molded case circuit breakers (MCCB) associated with valves V2-16A and V6-16C.

2.0 EVALUATION

Related to TMI Action Plan (NUREG-0737), Item II.E.1.2, the NRC staff reviewed the adequacy of the automatic initiation of the AFWS. The staff's evaluation found that with the exception of the presence of an automatic bus transfer (ABT) device the AFWS complies with the staff's long-term safety grade requirements. This ABT is designed to transfer the power supply for the AFWS' motor driven, pump discharge valve No. V2-16A from its normal, train A supply (Bus E1) to an alternative power source (train B, Bus E2) if the normal power source becomes unavailable.

The staff's concern about the ABT device is that it creates an increased potential for common mode failures by providing an automatic connection between redundant load groups. CP&L maintains that a potential common mode failure is unlikely since the circuit breaker protection scheme employed is coordinated for a worst case fault and would act to prevent the transfer of any fault. In support of this position, CP&L submitted, by letter dated June 14, 1985, the results of an "ABT Study." CP&L states that the study shows that circuit breaker trip settings are properly sequenced so that breakers which are electrically closest to a fault at the valve will operate to isolate the fault prior to any impact being felt by upstream protective devices in either load train. Therefore, CP&L asserts that adequate protection against common mode failures exists primarily because of the MCCB used as isolation devices between redundant buses and because of proper coordination between MCCB and their upstream breaker within each bus train.

To ensure that the circuit breaker operation will occur as anticipated, the staff recommended implementation of surveillance procedures which require periodic testing of the instantaneous and thermal overload trip elements in the MCCB. The proposed TS would add the recommended surveillance requirements for the AFW header discharge valve V2-16A and is, therefore, acceptable for providing the operability demonstration. The SW system isolation valve, V6-16C is identified by CP&L to fall under the same ABT category and is included in the surveillance requirement. The staff finds the inclusion of V6-16C to be appropriate.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment changed a surveillance requirement with respect the use of facility components 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 off site; 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 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.

4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration, which was published in the FEDERAL REGISTER (54 FR 25370) on June 14, 1989, and consulted with the State of North Carolina. No public comments or requests for hearing were received, and the State of North Carolina did not have any comments.

The Staff has 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.

Principal Contributor: Ronnie Lo

Dated: September 5, 1989