



Carolina Power & Light Company

Robinson Nuclear Plant
3581 West Entrance Road
Hartsville SC 29550
Serial: RNP-RA/00-0186

NOV 08 2000

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23

TRANSMITTAL OF COPIES OF AMENDMENT 189 TO
THE OPERATING LICENSE AND TECHNICAL SPECIFICATIONS
AND REVISION 5 TO THE TECHNICAL REQUIREMENTS MANUAL

Ladies and Gentlemen:

This letter transmits copies of replacement pages to the Operating License (OL), Technical Specifications (TS), and associated Lists of Effective Pages (LEPs) for the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2. The attached copies incorporate Amendment No. 189 to the OL and TS. This amendment was implemented on October 12, 2000. Amendment No. 189 revised the required standard for charcoal testing in the ventilation filter test program.

Additionally, Revision 5 to the Technical Requirements Manual (TRM) is transmitted. Revision 5 to the TRM represents changes associated with Amendment No. 189 and incorporates a revision to the TRM bases associated with Amendment No. 187 to the Technical Specifications to raise the allowed limit for Service Water temperature to 97°F. A description of the change is described in Attachment I.

Attachment II provides copies of replacement pages to the LEP for the OL and TS, the facility OL, the TS, and the TRM, and includes instructions for removing and inserting the pages on the cover page.

One (1) copy is provided for Mr. B. R. Bonser at NRC Region II, one (1) copy is provided for the NRC Resident Inspector, and three (3) copies are provided for Mr. R. Subbaratnam at NRC Headquarters. The recipients are requested to remove and insert pages in accordance with the instructions provided.

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If you have any questions concerning this matter, please contact Mr. H. K. Chernoff.

Sincerely,



R. L. Warden
Manager - Regulatory Affairs

ALG/alg

Attachments

- I. Summary of Change to Technical Requirements Manual in Revision 5
- II. Instructions for Removal and Insertion of Pages for Lists of Effective Pages, the Operating License, Technical Specifications, and Technical Requirements Manual

- c:
- L. A. Reyes, NRC, Region II (w/o attachment)
 - B. R. Bonser, NRC, Region II
 - R. Subbaratnam, NRC, NRR (3 copies attachment)
 - NRC Resident Inspector, HBRSEP

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

SUMMARY OF CHANGE TO
TECHNICAL REQUIREMENTS MANUAL IN REVISION 5

Description of Change

5.5.11, “Ventilation Filter Testing Program”

The Ventilation Filter Testing Program requirements concerning the Control Room Emergency Ventilation System have been changed to be consistent with Amendment No. 189 to the Technical Specifications, in which the charcoal testing standard was updated to ASTM D3803-1989. The test temperature was specified to be 30 °C.

Bases 3.14, “Spent Fuel Pool Water Temperature”

The TRM Bases have been updated to reflect a heat balance calculation of spent fuel pool water temperatures for both the 1/3 core discharge case and the core unload case. The calculation was performed in support of NRC review and approval of Amendment No. 187 to the Technical Specifications.

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

INSTRUCTIONS FOR REMOVAL AND INSERTION OF PAGES
FOR LISTS OF EFFECTIVE PAGES, THE OPERATING LICENSE,
TECHNICAL SPECIFICATIONS, AND TECHNICAL REQUIREMENTS MANUAL

Replace the following pages as instructed below. Margin lines indicate the revised areas.

Remove

Insert (Rev. No. 189)

LEP

Page 1
Page 8

Page 1
Page 8

Remove

Insert (Amendment No. 189)

Facility Operating License

Page 3
Page 4d

Page 3
Page 4d

Technical Specifications

Page 5.0-19

Page 5.0-19

Technical Requirements Manual

Remove

Insert (Revision 5)

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B 3.14-1

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3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations: 10 CFR Part 20, Section 30.34 of 10 CFR Part 30, Section 40.41 of 10 CFR Part 40, Section 50.54 and 50.59 of 10 CFR Part 50, and Section 70.32 of 10 CFR Part 70; and 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 below:

A. Maximum Power Level

The licensee is authorized to operate the facility at a steady state reactor core power level not in excess of 2300 megawatts thermal.

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 189 are hereby incorporated in the license.

The licensee shall operate the facility in accordance with the Technical Specifications.

- (1) For Surveillance Requirements (SRs) that are new in Amendment 176 to Final Operating License DPR-23, the first performance is due at the end of the first surveillance interval that begins at implementation of Amendment 176. For SRs that existed prior to Amendment 176, including SRs with modified acceptance criteria and SRs whose frequency of performance is being extended, the first performance is due at the end of the first surveillance interval that begins on the date the Surveillance was last performed prior to implementation of Amendment 176.

C. Reports

Carolina Power & Light Company shall make certain reports in accordance with the requirements of the Technical Specifications.

D. Records

Carolina Power & Light Company shall keep facility operating records in accordance with the requirements of the Technical Specifications.

4. Additional Conditions

The Additional Conditions contained in Appendix B, as revised through Amendment No. 189, are hereby incorporated into this license. Carolina Power & Light Company shall operate the facility in accordance with the additional conditions.

5. This license is effective as of the date of issuance and shall expire at midnight July 31, 2010.

Attachment
Appendix A - Technical Specifications

Date of Issuance: JUL 31 1970

5.5 Programs and Manuals

5.5.11 Ventilation Filter Testing Program (VFTP) (continued)

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in Regulatory Guide 1.52, Revision 2, shows the methyl iodide penetration less than the value specified below when tested in accordance with ASTM D3803-1989 at a temperature of 30°C (86°) and the relative humidity specified below.

<u>ESF Filter System</u>	<u>Penetration</u>	<u>RH</u>
Control Room Emergency	≤2.5%	70%
Spent Fuel Building	≤10%	70%
Containment Purge	≤10%	95%

(continued)

REFERENCE USE

CAROLINA POWER AND LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

PLANT OPERATING MANUAL

VOLUME 1
PART 2

PLANT PROGRAM PROCEDURE

PLP-100

TECHNICAL REQUIREMENTS MANUAL

REVISION 5

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5.0 PROGRAMS AND MANUALS

5.5.11 Ventilation Filter Testing Program (continued)

The program is implemented by the following procedures:

EST-023, EST-016,
OST-163, EST-022,
OST-751.

The program also includes the following requirements:

(CTS 4.15.d,
4.15.d.1,
4.15.f)

- a. For the Control Room Emergency Ventilation System, Technical Specifications 5.5.11.a, 5.5.11.b, and 5.5.11.c will be performed at least once per 18 months; or after any structural maintenance on the HEPA filters or carbon adsorber housings; or following painting, fire or chemical release in the control room envelope. In addition, during required in-place testing of the Control Room Emergency Ventilation System (Technical Specifications 5.5.11.a and 5.5.11.b), it will be verified that the system flow rate is not less than 5200 ACFM or more than 5800 ACFM through the air handling unit.

(CTS 4.15.d.2,
4.15.e)

- b. For the Control Room Emergency Ventilation System, Technical Specification 5.5.11.c requires verifying, within 31 days of removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978, by showing a methyl iodide penetration of less than 2.5% when tested at a temperature of 30°C and at a relative humidity of 70% in accordance with ASTM D3803-1989. In addition to the frequencies specified in TRMS 5.5.11.a above, Technical Specification 5.5.11.c shall also be performed after every 720 hours of carbon adsorber operation.

(continued)

B 3.14 SPENT FUEL POOL WATER TEMPERATURE

BASES

Heat balances have been performed on the entire Spent Fuel Pool Cooling System for both the 1/3 core discharge case and the core unload case. The results of the two heat balances show the maximum spent fuel pool water temperature will be about 119°F for the 1/3 core discharge situation and about 170°F for the core unload situation. Because of the conservatisms in the analysis upper limit margins on the decay heat, minimum achievable fuel movement times, and maximum service water temperature, it is expected that the spent fuel pool water temperatures will never reach these values. However, considering the thermal inertia of just over 1.5 hr projected for the worst case and the desire to prevent the temperature of the spent fuel pool from reaching 170°F, the rate of fuel movement into the spent fuel pool is controlled by TRMS 3.14 to maintain the spent fuel pool temperature at or below 150°F. For both cases, there is sufficient thermal inertia to allow alternative cooling means to be implemented.
