

January 23, 1997

Mr. Richard R. Grigg  
Chief Nuclear Officer  
Wisconsin Electric Power Company  
231 West Michigan Street, Room P379  
Milwaukee, WI 53201

SUBJECT: POINT BEACH NUCLEAR PLANT, UNIT NOS. 1 AND 2 - CORRECTION TO  
AMENDMENT NOS. 171 AND 175 RE: CONTROL ROD AND POWER DISTRIBUTION  
LIMITS (TAC NOS. M94782 AND M94783)

Dear Mr. Grigg:

On January 16, 1997, the Commission issued Amendment Nos. 171 and 175 to Facility Operating License Nos. DPR-24 and DPR-27 for the Point Beach Nuclear Plant, Unit Nos. 1 and 2, respectively. The amendments revised Technical Specification Section 15.3.10, "Control Rod and Power Distribution Limits," and the associated Bases to improve the clarity of this section.

The amendments for both Units 1 and 2 were inadvertently issued with an incorrect version of TS pages 15.3.10-5, 15.3.10-8, and 15.3.10-9. Copies of the corrected TS pages for Units Nos. 1 and 2 are enclosed.

We regret any inconvenience this oversight may have caused. If you have any questions on this action, please call me at 301/415-1380.

Sincerely,

Original signed by

Linda L. Gundrum, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-266  
and 50-301

Enclosure: Corrected TS Pages 15.3.10-5, 15.3.10-8, and 15.3.10-9

cc w/encl: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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cc w/encl: See next page

Mr. Richard R. Grigg  
Wisconsin Electric Power Company

Point Beach Nuclear Plant  
Unit Nos. 1 and 2

cc:

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AND

- b. Within two hours fully withdraw the shutdown banks.
- c. If the above actions and associated completion times are not met, be in hot shutdown within the following six hours.

2. When the reactor is critical, the control banks shall be inserted no further than the limits shown by the lines on Figure 15.3.10-1. If this condition is not met, perform the following actions:

- a. Within one hour verify that the shutdown margin exceeds the applicable value as shown in Figure 15.3.10-2; OR within one hour restore the shutdown margin by boration;  
AND
- b. Within two hours restore the control banks to within limits.
- c. If the above actions and associated completion times are not met, be in hot shutdown within the following six hours.

E. POWER DISTRIBUTION LIMITS

1. Hot Channel Factors

- a. The hot channel factors defined in the basis shall meet the following limits:

$$F_Q(Z) \leq \frac{(2.50)}{P} \times K(Z) \quad \text{for } P > 0.5$$

$$F_Q(Z) \leq 5.00 \times K(Z) \quad \text{for } P \leq 0.5$$

$$F_{\Delta H}^N < 1.70 \times [1 + 0.3(1-P)]$$

Where P is the fraction of full power at which the core is operating, K(Z) is the function in Figure 15.3.10-3 and Z is the core height location of F<sub>Q</sub>.

- b. If F<sub>Q</sub>(Z) exceeds the limit of Specification 15.3.10.E.1.a, within fifteen minutes reduce thermal power until F<sub>Q</sub>(Z) limits are satisfied;

- (1) After thermal power has been reduced in accordance with Specification 15.3.10.E.1.b, perform the following actions:

Unit 1 - Amendment No. 120, 144, 151, 171 15.3.10-5

Unit 2 - Amendment No. 123, 148, 155, 175

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- (3) Reevaluate safety analyses and confirm results remain valid for duration of operation under this condition. This action shall be completed prior to increasing thermal power above the limit imposed by Specification 15.3.10.E.3.a.(1).
  - (4) Upon completion of Specification 15.3.10.E.3.a.(3), calibrate the excore detectors. This action shall be completed prior to increasing thermal power above the limit imposed by Specification 15.3.10.E.3.a.(1);  
AND
  - (5) Verify that  $F_Q(Z)$  and  $F_{\Delta H}^N$  are within the limits of Specification 15.3.10.E.1.a within 24 hours after reaching rated thermal power, or within 48 hours after increasing thermal power above the limit imposed by Specification 15.3.10.E.3.a.(1).
  - (6) If the above actions and associated completion times are not met, within the following four hours reduce thermal power to  $\leq 50$  percent of rated thermal power.
- b. If no quadrant power tilt alarms are available, within twelve hours and every twelve hours thereafter, verify that quadrant power tilt is within limits by performing calculations.
  - c. When one power range channel is inoperable and thermal power is greater than 75% of rated thermal power, within twelve hours and every twelve hours thereafter, verify that quadrant power tilt is within limits by use of the movable incore detectors.

F. AT-POWER PHYSICS TESTS EXCEPTIONS

1. During the performance of at-power physics tests, the requirements of:

Specification 15.3.10.B, "Rod Operability and Bank Alignment Limits"  
 Specification 15.3.10.D, "Bank Insertion Limits"  
 Specification 15.3.10.E.2, "Axial Flux Difference"  
 Specification 15.3.10.E.3, "Quadrant Power Tilt"

are suspended, provided:

- a. Thermal power is maintained  $\leq 85$  percent of rated thermal power;  
AND
- b. Power Range Neutron Flux - High Trip setpoints are set at a maximum setting of 90 percent of rated thermal power;

2. Within 8 hours prior to the initiation of physics tests, verify that Power Range Neutron Flux - High Trip setpoints are  $\leq 90$  percent of rated thermal power.
3. If the shutdown margin is not within the limits of Specification 15.3.10.A.1, within 15 minutes initiate boration to restore the shutdown margin, AND within one hour suspend physics tests exceptions.
4. If thermal power exceeds 85 percent of rated thermal power, within one hour reduce thermal power to  $\leq 85$  percent of rated thermal power, OR within one hour suspend physics tests exceptions.
5. If the Power Range Neutron Flux - High Trip setpoints are greater than 90 percent of rated thermal power, within one hour restore the Power Range Neutron Flux - High Trip setpoints to  $\leq 90$  percent of rated thermal power, OR within one hour suspend physics tests exceptions.
6. Every hour, while at-power physics tests are in progress, verify that thermal power is  $\leq 85$  percent of rated thermal power.
7. At least once every 12 hours, verify  $F_Q(Z)$  and  $F_{\Delta H}^N$  are within the required limits.

G. LOW POWER PHYSICS TESTS EXCEPTIONS

1. During the performance of low power physics tests, the requirements of:  
 Specification 15.3.10.B, "Rod Operability and Bank Alignment Limits"  
 Specification 15.3.10.D, "Bank Insertion Limits"  
 Specification 15.3.10.E, "Power Distribution Limits"  
 are suspended, provided the lowest RCS loop average temperature is greater than the minimum temperature for criticality.
2. If the shutdown margin is not within the limits of Specification 15.3.10.A, within 15 minutes initiate boration to restore the shutdown margin, AND within one hour suspend physics tests exceptions.
3. If power is not within limits, open the reactor trip breakers immediately.
4. If lowest RCS loop average temperature is less than the minimum temperature for criticality, within 15 minutes restore lowest RCS loop average temperature to within limits, OR within 30 minutes be subcritical.