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

WISCONSIN ELECTRIC POWER COMPANY

DOCKET NO. 50-301

POINT BEACH NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 91
License No. DPR-27

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for amendment by Wisconsin Electric Power Company (the licensee) dated November 9, as modified November 13, 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-27 is hereby amended to read as follows:

   B. Technical Specifications

   The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 91 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective immediately upon the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

James R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 16, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 91

TO FACILITY OPERATING LICENSE NO. DPR-27

DOCKET NO. 50-301

Revise Appendix A as follows:

Remove Page	Insert Page
15.2.3-2	15.2.3-2
15.2.3-3	15.2.3-3

(3)* Low pressurizer pressure - $\geq$1865 psig for operation at 2250 psia primary system pressure

$\geq$1790 psig for operation at 2000 psia primary system pressure

(4) Overtemperature $\Delta T \left(\frac{1}{1+\tau_3 S}\right)$

$$\leq \Delta To \left(K_1 - K_2\left(T\left(\frac{1}{1+\tau_4 S}\right) - T'\right)\left(\frac{1+\tau_1 S}{1+\tau_2 S}\right) + K_3 (P-P') - f(\Delta I)\right)$$

where

ΔTo = indicated ΔT at rated power, °F

T = average temperature, °F

T' = 574.2°F

P = pressurizer pressure, psig

P' = 2235 psig

*K_1 $\leq$1.117 for operation at 2250 psia primary system pressure

$\leq$1.30 for operation at 2000 psia primary system pressure

K_2 = 0.0150

K_3 = 0.000791

τ_1 = 25 sec

τ_2 = 3 sec

τ_3 = 2 sec for Rosemont or equivalent RTD

= 0 sec for Sostman or equivalent RTD

τ_4 = 2 sec for Rosemont or equivalent RTD

= 0 sec for Sostman or equivalent RTD

and $f(\Delta I)$ is an even function of the indicated difference between top and bottom detectors of the power-range nuclear ion chambers; with gains to be selected based on measured instrument response during plant start-up tests, where q_t and q_b are the percent power in the top and bottom halves of the core respectively, and $q_t + q_b$ is total core power in percent of rated power, such that:

(a) for $q_t - q_b$ with -17, +5 percent, $f(\Delta I) = 0$.

(b) for each percent that the magnitude of $q_t - q_b$ exceeds +5 percent, the ΔT trip set point shall be automatically reduced by an equivalent of 2.0 percent of rated power.

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*Appropriate safety analyses shall be performed prior to shifting operation from one primary system pressure to the other.

(c) for each percent that the magnitude of $q_t - q_b$ exceeds -17 percent, the ΔT trip setpoint shall be automatically reduced by an equivalent of 2.0 percent of rated power.

(5) Overpower ΔT $\left(\frac{1}{1+\tau_3 S}\right)$

$$\leq \Delta To \left\{K_4 - K_5\left(\frac{\tau_5 S}{\tau_5 S+1}\right)\left(\frac{1}{1+\tau_4 S}\right) T - K_6 \left[T\left(\frac{1}{1+\tau_4 S}\right) - T'\right] - f(\Delta I)\right\}$$

where

ΔTo = indicated ΔT at rated power, °F

T = average temperature, °F

T' = 574.2°F

K_4 $\leq$ 1.089 of rated power

K_5 0.0262 for increasing T

for decreasing T

123 for $T \geq T'$

for $T < T'$

°C

s defined in (4) above,

Rosemont or equivalent RTD

r Sostman or equivalent RTD

τ_4 = or Rosemont or equivalent RTD

= 0 sec for Sostman or equivalent RTD

(6) Undervoltage - $\geq$75 percent of normal voltage

(7) Indicated reactor coolant flow per loop - $\geq$90 percent of normal indicated loop flow

(8) Reactor coolant pump motor breaker open

(a) Low frequency set point $\geq$57.5 cps

(b) Low voltage set point $\geq$75 percent of normal voltage.