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US NUCLEAR REGULATORY COMMISSION
Mail Station P1-137
Washington, DC 20555

Ladies/Gentlemen:

DOCKETS 50-266 AND 50-301
TECHNICAL SPECIFICATION CHANGE REQUEST 171
HEATUP AND COOLDOWN LIMIT CURVE EXPIRATION DATE EXTENSION
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

On May 26, 1994, we submitted Technical Specifications Change Request 171, "Heatup and Cooldown Limit Curve Expiration Date Extension," which requested amendments to Facility Operating Licenses DPR-24 and DPR-27 for Point Beach Nuclear Plant (PBNP), Units 1 and 2, respectively. The proposed amendments extend the operation of both units with the current heatup and cooldown limit curves in the Technical Specifications to 23.6 effective full power years (EFPY). On February 27, 1996, the NRC staff requested clarification of our submittal with respect to the limiting materials applicable to this analysis. This letter provides a clarification of the information previously provided for PBNP Units 1 and 2.

In the analysis of the heatup and cooldown curves for PBNP, the limiting weld in either Unit 1 or Unit 2 with respect to fluence is the circumferential weld (SA-1484) in Unit 2. The 1/4-thickness fluence at this location is 1.39×10^{19} n/cm² (E > 1.0 MeV) at 23.6 EFPY. The latest fluence assessment for PBNP Unit 1 (WCAP-12794, Rev. 3, "Reactor Cavity Neutron Measurement Program for Wisconsin Electric Power Company, Point Beach Unit 1") determined that the fluence at the limiting weld in Unit 1 (SA-1101) is less than this fluence.

With respect to weld chemistry, the PBNP Unit 1 circumferential weld (SA-1101) is limiting and its chemistry factor of 180°F was used in the analysis. The use of these limiting fluence and chemistry values envelopes the most conservative conditions for the two reactor vessels. Use of these values resulted in a 1/4-thickness adjusted reference temperature of 258.4°F at 23.6 EFPY.

We believe that these clarifications answer all outstanding questions regarding TSCR 171. Please contact us should you desire any additional information.

Sincerely,

R. A. Newton
for Bob Link

Bob Link
Vice President
Nuclear Power

JRP

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cc: NRC Regional Administrator
NRC Resident Inspector
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