

March 12, 2001

Mr. Mark Reddemann  
Site Vice President  
Kewaunee and Point Beach Nuclear Plants  
Nuclear Management Company, LLC  
6610 Nuclear Road  
Two Rivers, WI 54241

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2 - REQUEST FOR  
ADDITIONAL INFORMATION ON TECHNICAL SPECIFICATION REQUEST  
219 REGARDING ADOPTION OF PRESSURE AND TEMPERATURE LIMITS  
REPORT (TAC NOS. MA8459 AND MA8460)

Dear Mr. Reddemann:

By letter dated March 10, 2000, the licensee submitted a license amendment request to adopt the use of a pressure and temperature limits report and revise pressure-temperature and low-temperature overpressure protection limits. The NRC staff requires additional information in order to complete its review of this amendment request.

The enclosed request was discussed with Mr. Jack Gadzala during a conference call on March 1, 2001. A mutually agreeable target date of 45 days from the date of this letter was established for your response. If circumstances result in the need to revise the target date, please contact me at (301) 415-1355 at your earliest opportunity.

Sincerely,

**/RA/**

Beth A. Wetzel, Senior Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure: Request for Additional Information

cc w/encl: See next page

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Accession No. ML010720255

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Point Beach Nuclear Plant, Units 1 and 2

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October 2000

REQUEST FOR ADDITIONAL INFORMATION

REGARDING PRESSURE AND TEMPERATURE LIMITS REPORT AMENDMENT REQUEST

POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

1. Since Point Beach Nuclear Plant (PBNP) relies on the pressurizer power-operated relief valve (PORV) for low-temperature overpressure protection (LTOP), clarify the statement (on p. 19 of Calc. No. 2000-0001, Rev. 0 (Attachment 5 of the licensee's submittal dated March 10, 2000)) that a setpoint of 500 psig is evaluated, which is the setpoint of the RHR high capacity relief valve, RH-861C.
2. The equation (p. 20 of Calc 2000-0001, Rev. 0) used in the determination of the PORV setpoint overshoot includes an "EXP Ratio" term, which is calculated to be 0.74 (p. 21).

- (A) The equation is inconsistent with the simplified equation described in Section 4.2 of Westinghouse report, "Pressure Mitigating Systems Transient Analysis Results," July 1977. The Westinghouse simplified equation does not have the EXP Ratio term.

Provide the basis for including the EXP Ratio term in the equation, and describe the effects of including this term on other terms in the equation, as they were developed, without considering the metal expansion effect.

- (B) Figure 5.2 in the Westinghouse report dated July 1997 was developed to show the conservatism in the simplified equation for not considering the effect of metal expansion in the setpoint overshoot calculation. The pressure overshoot reduction calculation was based on the elastic effects on volume changes of the simple geometric shape of cylinders and hemispheres subject to a pressure change of 1000 psi (Table 5.2 in the July 1977 Westinghouse report). Figure 5.2 was based on a relief valve setpoint of 600 psig, which is higher than the PBNP LTOP PORV setpoint of 500 psig.

Provide your justification for the use of Figure 5.2 in the PBNP license amendment application.

3. Though stated in the submittals and listed in the proposed PTLR as the method used for the P-T limits determination, WCAP-14040-NP-A is not referenced or mentioned in Calculation 2001-0001-00, "RCS P-T limits and LTOP Setpoint Applicable Thru 32.2 EFPY - Unit 1 and 34.0 - Unit 2."

Are the P-T limits and LTOP setpoint actually calculated based on the methods of WCAP-14040-NP-A? Are the calculations consistent with the WCAP-14040 methodology?

ENCLOSURE

4. The Safety Evaluation (Attachment 2 to the March 10, 2000, amendment request) states that, for PBNP, Units 1 and 2, a single setpoint is established based on the most limiting reactor vessel beltline materials at the minimum allowable pressure for the RCS pressurization established pursuant to Appendix G to 10 CFR Part 50.

Clarify the above statement with "minimum" allowable pressure, which is inconsistent with the "maximum" allowable pressure in PBNP Calculation 2000-0001.