



Nuclear Management Company, LLC
Point Beach Nuclear Plant
6610 Nuclear Road
Two Rivers, WI 54241

NRC 2002-0099

10 CFR 50.90

November 11, 2002

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Dockets 50-266 and 50-301
Point Beach Nuclear Plant, Units 1 and 2
Response To Request For Additional Information License Amendment Request 226
Measurement Uncertainty Recapture Power Uprate

References:

- 1) Letter to Document Control Desk from Mark E. Warner, NRC 2002-0030, dated April 30, 2002.
- 2) Letter to Document Control Desk from Mark E. Warner, NRC 2002-0053, dated June 6, 2002.
- 3) Letter to Document Control Desk from A. J. Cayia, NRC 2002-0075, dated August 29, 2002.
- 4) Letter to Document Control Desk from A. J. Cayia, NRC 2002-0090, dated October 3, 2002.
- 5) Letter to Document Control Desk from A. J. Cayia, NRC 2002-0094, dated October 23, 2002.

In reference 1, Nuclear Management Company, LLC (NMC), submitted a request for an amendment to the Operating Licenses and Technical Specifications (TS) for Point Beach Nuclear Plant (PBNP), Units 1 and 2. The purpose of the proposed amendment was to increase licensed rated thermal power (RTP) based on a measurement uncertainty recapture (MUR) power uprate.

Telephone conferences between the Nuclear Regulatory Commission (NRC) and NMC were held on June 6, June 27, July 9, August 6, August 19, and September 27, 2002. During these calls, the NRC staff requested additional information in support of the license amendment request (LAR). The NMC responses to the NRC's requests for additional information (RAIs) were submitted in references 2, 3, and 4.

A conference call between the NRC and NMC on September 19, 2002, resulted in the submittal of a supplemental license amendment request for the MUR power uprate (reference 5). Reference 5 included a revision of the Westinghouse report, WCAP-14787, "Revised Thermal Design Procedure Instrument Uncertainty Methodology, Wisconsin Electric Power Company, Point Beach Units 1 & 2". This report contains the power measurement uncertainty calculations

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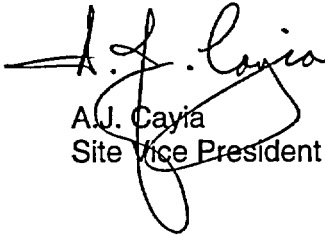
for the new leading edge flow meter (LEFM) and provides the basis for the MUR power uprate. An additional conference call between the NRC, Westinghouse, and NMC staff occurred on November 7, 2002. This conference call focused on changes in the WCAP report content due to rounding and the effect of the rounding on the final uncertainty value for the LEFM power measurement. The conference call resulted in the NRC requesting additional information to confirm that the final power measurement uncertainty value for the LEFM did not exceed 0.6 percent prior to rounding. Attachment 1 of this letter provides the NMC's response to the NRC's request for additional information.

No changes to the initially proposed amendment result from this additional information. Furthermore, NMC has determined that this supplement does not involve a significant hazards consideration, authorize a significant change in the types or total amounts of effluent release, or result in any significant increase in individual or cumulative occupational radiation exposure. Therefore, NMC concludes that the proposed supplement meets the categorical exclusion requirements of 10 CFR 51.22(c)(9) and that an environmental impact appraisal need not be prepared.

To facilitate plant and procedure changes related to the proposed license amendment, NMC requests an implementation period of 120 days following approval of the amendment.

In accordance with 10 CFR 50.91, a copy of this application, with attachments, is being provided to the designated Wisconsin Official.

I declare under penalty of perjury that the foregoing is true and correct.
Executed on November 11, 2002.


A.J. Cayia
Site Vice President

Attachment 1. Response to Request for Additional Information

cc: NRC Regional Administrator
NRC Resident Inspector

NRC Project Manager
PSCW

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
LICENSE AMENDMENT REQUEST 226
MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

ATTACHMENT 1 TO NRC 2002-0099

The following information is provided in response to the NRC staff's request for additional information (RAI) communicated during a November 7, 2002 telephone conference.

NRC Question:

The calculated power measurement uncertainty using the LEFM for feedwater flow and feedwater temperature measurement is reported as 0.6 percent power on page 36 of WCAP-14787, "Revised Thermal Design Procedure Instrument Uncertainty Methodology, Wisconsin Electric Power Company, Point Beach Units 1 & 2," revision 2. Given that the instrument uncertainty input values reported in the WCAP were rounded, what is the effect of this rounding on the final calculated values for power measurement uncertainty? Did the LEFM-based power measurement uncertainty exceed the 0.6 prior to rounding?

NMC Response:

The instrument uncertainty input values are used with no rounding in the calculation to determine the power measurement uncertainty. The calculated input values and the final calculated power measurement uncertainty are only rounded in the WCAP.

The one decimal place precision of the power measurement uncertainty is based on the precision of the inputs used in the uncertainty calculation. While some of the inputs have two decimal place precision, most of the inputs have one decimal place precision. The input with the least precision determines the precision of the final calculated result. Some of the inputs, such as transmitter uncertainty, are calculated values and are reported in the WCAP as rounded values.

The power measurement uncertainty calculated for the LEFM prior to rounding did not exceed the 0.6 percent. Westinghouse performs a conservative rounding on the final power measurement uncertainty for MUR power uprates. If the power measurement uncertainty prior to rounding exceeds 0.6 percent, the uncertainty would be reported as 0.7 percent.