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Point Beach Nuclear Plant  
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Kewaunee / Point Beach Nuclear  
Operated by Nuclear Management Company, LLC

NRC 2002-0053

10 CFR 50.90

June 26, 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

On April 30, 2002, Nuclear Management Company, LLC (NMC) submitted a request for an amendment to the Technical Specifications (TS) for Point Beach Nuclear Plant (PBNP), Units 1 and 2. The proposed amendment would increase licensed reactor thermal power (RTP) level. The requested increase in licensed RTP is the result of a measurement uncertainty recapture (MUR) power uprate.

In a June 6, 2002, teleconference between the NRC staff and PBNP plant staff, the NRC staff requested additional information in support of the proposed amendment. Attachment 1 of this letter provides the NMC response to the staff's questions. No changes to the initially proposed amendment result from this additional information.

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.

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

To the best of my knowledge and belief, the statements contained in this document are true and correct. In some respects, these statements are not based entirely on my personal knowledge, but on information furnished by cognizant NMC employees and consultants. Such information has been reviewed in accordance with company practice and I believe it to be reliable.

A001

I declare under penalty of perjury that the foregoing is true and correct.

Executed on June 26, 2002.



Mark E. Warner  
Site Vice President

LMG/kmd

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**

The following information is provided in response to the Nuclear Regulatory Commission staff's request for additional information during a telephone conference on June 6, 2002. The question is restated with NMC's response following.

**NRC Question:**

Provide design electrical ratings, normal operating points, operational/procedural restrictions and the impact of the 1.4 percent MUR uprate for various affected components including the main generators, isophase bus ducts, main stepup transformers, unit auxiliary transformers, station auxiliary transformers, 4160 volt buses, and motor-driven pumps (condensate, main feedwater, and heater drain). Additionally, for grid stability, provide the real (MWe) and reactive (MVAR) load capability, operating/procedural restrictions, normal operating point and the impact of the 1.4 percent MUR uprate.

**Response:**

The following tables specifically list the normal operating points, the existing operational/procedural limits, the anticipated effects of the 1.4 percent MUR power uprate, and the maximum design ratings of the components. It should be noted that the existing and anticipated design MWe are based on the post low pressure turbine retrofit heat balance completed in 1997. This heat balance assumed condenser design conditions and did not assume steam generator blow down, other steam loads being supplied by the unit or other balance of plant inefficiencies.

**Table 1 – Electrical Equipment Information**

Equipment	Units	Existing Operating Values	Existing Design and Procedure Limits	Anticipated Power Uprate (1.4%)	Maximum Equipment Design
Unit Generator	MVA	536	582	588.2	608.4
	Power Factor	0.989	0.924	0.927	0.920
	MWe	530	538	545.5	560
	MVAR*	80 Out	220 Out	220 Out	238 Out
Main Transformer X-01	MVA	536	582	588.2	609.3
Main Transformer X-01 Iso-phase Bus	Amps	16287	17685	17874	20000
High Voltage Station Auxiliary Transformer X-03	MVA	25.2	25.2	25.2	37.3
High Voltage Station Auxiliary Transformer X-03 Bus Duct	Amps	1055	1055	1055	1561
Unit Auxiliary Transformer X-02	MVA	25.2	25.2	25.2	37.3
Unit Auxiliary Transformer X-02 Iso-phase Bus	Amps	766	766	766	1133
Low Voltage Station Auxiliary Transformer X-04	MVA	27.4	27.4	27.4	37.3
Low Voltage Station Transformer X-04 Bus Duct	Amps	1033	1033	1033	1561
4160 Volt Bus Duct	Amps	1965	1965	1965	3000

\*Procedure MVAR limits are 100 MVAR IN and 220 MVAR OUT. Daily Average is 80 MVAR OUT.

**Table 2 – Motor Driven Pump Information**

<b>Equipment</b>	<b>Existing BHP</b>	<b>Power Uprate BHP (1.4%)</b>	<b>Design BHP</b>
Main Feedwater Pump Motor P-28	4400	4500	5000
Condensate Pump Motor P-25	1140	1150	1250
Heater Drain Pump Motor P-27	400	400	450