



**Nuclear Management Company, LLC**  
Prairie Island Nuclear Generating Plant  
1717 Wakonade Dr. East • Welch MN 55089

February 2, 2001

10 CFR 50  
Section 50.90

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

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
Docket Nos. 50-282 License Nos. DPR-42  
50-306 DPR-60

**Additional Information Related to  
License Amendment Request Dated April 17, 2000  
Removal of Boric Acid Storage Tanks from the Safety Injection System**

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By letter dated, April 17, 2000, Prairie Island submitted a License Amendment Request to remove the Boric Acid Storage Tanks from the Safety Injection System. In that request we noted that containment temperature response under our revised main steam line break (MSLB) analysis did not adversely affect the qualification of electrical equipment in containment. By this letter we are transmitting additional information to support that assertion.


The revised MSLB temperature profile does not represent a significant change to existing data for MSLB qualification. The current profile has a peak temperature of 346.2 degrees F at 10 seconds into the event, then decreases to approximately 270 degrees F at 50 to 60 seconds. The revised MSLB profile peaks at a lower 342 degrees F at 120 seconds, decreases rapidly to below 250 degrees F at containment spray initiation, and then reaches a brief second peak at approximately 275 degrees F once spray is terminated. After the second peak, at ten minutes into the accident, the temperature rapidly decreases to reach a temperature below 230 degrees F after 30 minutes. After three hours, the temperature is below 200 degrees F. In summary, the revised profile has a lower peak temperature, but a slightly longer time at elevated temperatures during the first ten minutes after the postulated line break.

The qualification of EQ components to the revised MSLB analysis is not significantly different from the current analysis. A peak temperature at 120 seconds versus 10 seconds has little effect on the overall thermal qualification since the revised peak temperature is lower, with the remainder of the temperature profile curve consistent with

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the current profile curve. Previous analysis provides the thermal response analysis that is incorporated within the Prairie Island EQ Program. The revised MSLB does not invalidate this original analysis since the rate of heat-up is slower and reaches a lower peak. The revised MSLB analysis is enveloped by the analysis currently contained within the EQ documentation.

In this letter we have made no new Nuclear Regulatory Commission commitments. Please contact Jeff Kivi (651-388-1121) if you have any questions related to this letter.



Joel P. Sorensen  
Site General Manager  
Prairie Island Nuclear Generating Plant

c: Regional Administrator - Region III, NRC  
Senior Resident Inspector, NRC  
NRR Project Manager, NRC  
J E Silberg

Attachment

UNITED STATES NUCLEAR REGULATORY COMMISSION

NUCLEAR MANAGEMENT COMPANY, LLC

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

DOCKET NO. 50-282  
50-306

ADDITIONAL INFORMATION RELATED TO  
LICENSE AMENDMENT REQUEST DATED APRIL 17, 2000  
REMOVAL OF BORIC ACID STORAGE TANKS FROM THE SAFETY INJECTION  
SYSTEM

Nuclear Management Company, LLC, a Wisconsin corporation, is submitting additional information related to an Amendment Request originally submitted April 17, 2000.

This letter contains no restricted or other defense information.

NUCLEAR MANAGEMENT COMPANY, LLC

By Joel P. Sorensen  
Joel P. Sorensen  
Site General Manager  
Prairie Island Nuclear Generating Plant

State of MINNESOTA

County of GOODHUE

On this 2<sup>nd</sup> day of FEBRUARY 2001 before me a notary public acting in said County, personally appeared Joel P. Sorensen, Site General Manager, Prairie Island Nuclear Generating Plant, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Nuclear Management Company, LLC, that he knows the contents thereof, and that to the best of his knowledge, information, and belief the statements made in it are true.

Jeffrey L. Kivi

