

August 18, 2005

Mr. John T. Conway  
Site Vice President  
Nuclear Management Company, LLC  
2807 West County Road 75  
Monticello, MN 55362-9637

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
MONTICELLO NUCLEAR GENERATING PLANT LICENSE RENEWAL  
APPLICATION (TAC NO. MC6440)

Dear Mr. Conway:

By letter dated March 16, 2005, Nuclear Management Company, LLC, (NMC or the applicant) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54) to renew the operating license for Monticello Nuclear Generating Plant (MNGP), for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The NRC staff is reviewing the information contained in the license renewal application (LRA) and has identified, in the enclosure, areas where additional information is needed to complete the review.

These questions were discussed with your staff, Mr. Patrick Burke, and a mutually agreeable date for this response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3777 or e-mail [DXM2@nrc.gov](mailto:DXM2@nrc.gov).

Sincerely,

*/RA/*

Daniel J. Merzke, Project Manager  
License Renewal Section A  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket No. 50-263

Enclosure: As stated

cc w/encl: See next page

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OFFICIAL RECORD COPY

Monticello Nuclear Generating Plant

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DISTRIBUTION: Ltr to J. Conway, re: RAI for Monticello, Dated: August 18, 2005  
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MONTICELLO NUCLEAR GENERATING PLANT  
LICENSE RENEWAL APPLICATION (LRA)  
REQUEST FOR ADDITIONAL INFORMATION (RAI)

## **2.5 Electrical and Instrumentation and Controls**

### **RAI 2.5.1-1**

In Section 2.5.1.1 of the LRA, under the system function listing of 480V Station Auxiliary, it is stated that Motor Control Centers (MCCs) 132, 133A, and 142A are credited as supporting an Anticipated Transient Without Scram (ATWS) event. However, according to license renewal drawing LR-36298, MCC 132 is not included in the scope of license renewal. Please resolve the discrepancy.

### **RAI 2.5.1-2**

In Section 2.5.1.6 of the LRA, under the description of DC Battery, it is stated that the 24 Vdc batteries provide power for the nuclear instrumentation, process radiation monitors, and H<sub>2</sub>/O<sub>2</sub> analyzer isolation valve position indication. Further, under the system function listing, it is stated that the 24 Vdc system continuously provides DC electrical power to the safety-related and nonsafety-related loads. However, the 24 Vdc system is not considered safety-related since the system is not required to provide the safety-related function of these loads. Please provide specific safety loads which are powered by 24 Vdc, and provide an explanation how these loads will perform the safety-related function in case the 24 Vdc non-safety power supply fails.

### **RAI 2.5.2-1**

In Section 2.5.2.4 of the LRA, under the description of Offsite Power/SBO Recovery Path, it is stated that the path boundary includes the 345 kV, 115 kV and 13.8 kV system components from the plant 4.16 kV buses out to the first switchyard breaker, which disconnects the plant from the 345 kV or 115 kV ring bus or the 13.8 kV system fed from the #10 transformer in the switchyard. Please confirm that the path boundary also includes the associated control circuits within the scope of aging management review.

## **3.5 Aging Management of Containments, Structures, and Component Supports**

### **RAI 3.5.2.1.15-1**

Section 3.3.2.2.10 of the license renewal application (LRA) mentions a Boral Coupon Surveillance Program but does not provide details of that program. The staff requests the applicant confirm that the Boral coupon surveillance program will continue to monitor degradation into the period of extended operation and to discuss the schedule for coupon removal and testing during this period to demonstrate continued Boral performance.

### **RAI 3.5.2.1.15-2**

Section 10.2.1.2 of the Monticello USAR identifies bulging and binding concerns in 8 storage slots. The staff requests the applicant discuss the cause of the bulging and to describe the analysis that was performed to conclude that the bulging is not a degradation mechanism requiring management nor a concern in the remaining storage slots.

### **RAI 3.5.2.1.15-3**

By letter dated April 14, 1978, the staff approved the use of Boral for use at Monticello. This approval indicates that Boral has been in service at Monticello for over 20 years. The staff requests the applicant provide the installation date of the Boral currently in the spent fuel pool. In addition, to demonstrate that Boral integrity has been maintained, the staff requests the applicant to provide the test results for the coupons, including areal density measurements.

**RAI 3.5.2.1.15-4**

Section 3.3.2.2.10 of the LRA indicates that loss of material, cracking, and reduction of neutron absorbing capacity of Boral will be managed by the Plant Chemistry Program and the One-Time Inspection (OTI). The staff requests the applicant discuss how plant specific and industry-wide operating experience support the management of Boral through an OTI. In addition, the staff requests additional information related to the OTI described in Section B2.1.23 of the LRA for managing Boral. Specifically, the staff requests the applicant discuss the properties of Boral to be detected and trended and the acceptance criteria applied to Boral by the OTI.