

July 7, 2005

Mr. Joseph Solymossy  
Site Vice-President  
Nuclear Management Company, LLC  
1717 Wakonade Drive East  
Welch, MN 55089

SUBJECT: PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT 1 - RESPONSE TO NRC BULLETIN 2003-02, "LEAKAGE FROM REACTOR PRESSURE VESSEL LOWER HEAD PENETRATIONS AND REACTOR COOLANT PRESSURE BOUNDARY INTEGRITY (TAC NO. MC0558)

Dear Mr. Solymossy:

On August 21, 2003, the U.S. Nuclear Regulatory Commission (NRC) issued NRC Bulletin 2003-02, "Leakage from Reactor Pressure Vessel Lower Head Penetrations and Reactor Coolant Pressure Boundary Integrity," to the industry. This bulletin informed addressees that current methods of inspecting the reactor pressure vessel (RPV) lower heads may need to be supplemented with bare-metal visual inspections in order to detect reactor coolant pressure boundary leakage. The bulletin also requested these addressees provide the NRC with information related to inspections that will be performed to verify the integrity of the RPV lower head penetrations.

The bulletin requested that addressees provide a description of the RPV lower head penetration inspection program that would be implemented at their respective plants during the next and subsequent refueling outages. This description was to include the extent of the inspection, the inspection methods to be used, the qualification standards for the inspection methods, the process used to resolve the source of findings of boric acid deposits or corrosion, the inspection documentation to be generated, and the basis for concluding that their plant satisfied applicable regulatory requirements related to the structural and leakage integrity of the RPV lower head penetrations.

By letter dated September 19, 2003, Nuclear Management Company (NMC) provided its response to this request. NMC committed to perform a 100-percent bare-metal visual inspection of the lower RPV dome up to and including each bottom-mounted instrumentation penetration to the RPV junction during the fall 2004 refueling outage at Prairie Island, Unit 1. In addition, NMC stated that this inspection would be completed on each unit during future refueling outages, subsequent to the fall 2003 refueling outage at Prairie Island, Unit 2. NMC indicated that this inspection schedule may be adjusted in the future should industry experience, changes to the American Society of Mechanical Engineers Code, or a change in regulatory requirements justify a change to the inspection frequency or method. As such, NMC is requested to notify the NRC staff in writing of any changes to this commitment prior to implementation.

J. Solymossy

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The bulletin also requested that addresses provide a summary of the RPV lower head penetration inspection that was performed at their plants, the extent of the inspection and the methods used, a description of the as-found condition of the lower head, any findings of relevant indications of through-wall leakage, and a summary of the disposition of any findings of boric acid deposits and any corrective actions taken as a result of indications found.

By letter dated January 24, 2005, NMC provided a summary of its inspection results at Prairie Island, Unit 1 for the fall 2004 refueling outage. NMC reported that it had performed a 360-degree bare-metal visual inspection of all 36 RPV lower head penetrations. NMC did not observe any evidence of RPV lower head penetration leakage.

Based on its review of NMC's responses to NRC Bulletin 2003-02, the NRC staff finds that NMC has met the reporting requirements of the bulletin for Prairie Island, Unit 1. Accordingly, TAC No. MC0558 is closed for Prairie Island, Unit 1.

Sincerely,

**/RA/**

Mahesh Chawla, Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-282

cc: See next page

The bulletin also requested that addresses provide a summary of the RPV lower head penetration inspection that was performed at their plants, the extent of the inspection and the methods used, a description of the as-found condition of the lower head, any findings of relevant indications of through-wall leakage, and a summary of the disposition of any findings of boric acid deposits and any corrective actions taken as a result of indications found.

By letter dated January 24, 2005, NMC provided a summary of its inspection results at Prairie Island, Unit 1 for the fall 2004 refueling outage. NMC reported that it had performed a 360-degree bare-metal visual inspection of all 36 RPV lower head penetrations. NMC did not observe any evidence of RPV lower head penetration leakage.

Based on its review of NMC's responses to NRC Bulletin 2003-02, the NRC staff finds that NMC has met the reporting requirements of the bulletin for Prairie Island, Unit 1. Accordingly, TAC No. MC0558 is closed for Prairie Island, Unit 1.

Sincerely,  
**/RA/**

Mahesh Chawla, Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-282

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NAME	MChawla	THarris	SMonarque	ESullivan	LRaghavan
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**OFFICIAL RECORD COPY**

Prairie Island Nuclear Generating Plant, Units 1 and 2

cc:

Jonathan Rogoff, Esquire  
Vice President, Counsel & Secretary  
Nuclear Management Company, LLC  
700 First Street  
Hudson, WI 54016

Manager, Regulatory Affairs  
Prairie Island Nuclear Generating Plant  
Nuclear Management Company, LLC  
1717 Wakonade Drive East  
Welch, MN 55089

Manager - Environmental Protection Division  
Minnesota Attorney General's Office  
445 Minnesota St., Suite 900  
St. Paul, MN 55101-2127

U.S. Nuclear Regulatory Commission  
Resident Inspector's Office  
1719 Wakonade Drive East  
Welch, MN 55089-9642

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
801 Warrenville Road  
Lisle, IL 60532-4351

Administrator  
Goodhue County Courthouse  
Box 408  
Red Wing, MN 55066-0408

Commissioner  
Minnesota Department of Commerce  
121 Seventh Place East  
Suite 200  
St. Paul, MN 55101-2145

Tribal Council  
Prairie Island Indian Community  
ATTN: Environmental Department  
5636 Sturgeon Lake Road  
Welch, MN 55089

Nuclear Asset Manager  
Xcel Energy, Inc.  
414 Nicollet Mall, R.S. 8  
Minneapolis, MN 55401

John Paul Cowan  
Executive Vice President & Chief Nuclear  
Officer  
Nuclear Management Company, LLC  
700 First Street  
Hudson, WI 54016

Craig G. Anderson  
Senior Vice President, Group Operations  
Nuclear Management Company, LLC  
700 First Street  
Hudson, WI 54016

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