

## Hoc, HOO X

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**From:** Hernandez, Gustavo <gustavo.hernandez@xcelenergy.com>  
**Sent:** Friday, May 7, 2021 17:21  
**To:** Hoc, HOO X  
**Subject:** [External\_Sender] Monticello - Part 21 Initial and Final Notification  
**Attachments:** L-MT-21-035 Initial and Final Part 21 Notification GEH NUMAC PRNMS.pdf

Please see attached, L-MT-21-035 Initial and Final Part 21 Notification for GEH NUMAC PRNMS.

**Gustavo Hernandez**  
**Xcel Energy**  
Monticello Regulatory Affairs Manager  
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2807 West County Road 75  
Monticello, MN 55362

May 7, 2021

L-MT-21-035  
10 CFR 21.21(d)(3)(i)&(ii)

ATTN: U.S. Operations Center  
Nuclear Regulatory Commission  
Washington, DC 20555-0001

Monticello Nuclear Generating Plant  
Docket No. 50-263  
Renewed Facility Operating License No. DPR-22

Initial and Final Written 10 CFR 21 Notification for GE Hitachi NUMAC PRNM System

Pursuant to 10 CFR 21.21(d)(3)(i)&(ii), Northern States Power Company, a Minnesota Corporation, (NSPM), doing business as Xcel Energy, hereby submits the attached initial and final notification of a failure to comply or existence of a defect.

If there are any questions or if any additional information is needed, please contact Gus Hernandez, at 763-647-0995.

The NRC Senior Resident Inspector at Monticello has been notified.

Summary of Commitments

This letter contains no new commitments.

A handwritten signature in black ink, appearing to read 'TAC Conboy', with a long horizontal flourish extending to the right.

Thomas A. Conboy  
Site Vice President  
Monticello Nuclear Generating Plant  
Northern States Power Company – Minnesota

Enclosure (1)

cc: Administrator, Region III, USNRC  
Project Manager, Monticello, USNRC  
Resident Inspector, Monticello, USNRC

**ENCLOSURE 1**  
**Initial and Final Part 21.21(d)(4) Report for GEH NUMAC PRNM System**

**Initial and Final Part 21.21(d)(4) Report for GEH NUMAC PRNM System**

On March 9, 2021 GE Hitachi (GEH) issued Safety Communication SC 21-02 for PRC 21-02, Transfer of Information, Revision 0, pursuant to 10 CFR 21.21(b). Monticello Nuclear Generating Plant (MNGP) was listed as a potentially affected plant. This is a deviation from the PRNM Licensing Topical Report, NEDC 32410P-A.

On May 5, 2021, MNGP completed an evaluation of this deviation and concluded this condition represents a substantial safety hazard in that the condition could result in an APRM flux reading either below or above the Technical Specification  $\pm 2\%$  band. The condition is a defect that is reportable pursuant to 10 CFR 21.21(d)(4).

The GEH NUMAC PRNMS was installed in 2009.

**Name and Address of the Individual or Individuals Informing the Commission:**

Thomas A. Conboy,  
Site Vice President  
Monticello Nuclear Generating Plant  
Northern States Power Company – Minnesota  
2807 West County Road 75  
Monticello, MN 55362

**Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect:**

Facility: Monticello Nuclear Generating Plant  
Docket No. 50-263  
License No. DPR-22

Basic Component: GEH NUMAC PRNM System Part No. 299X739NF

**Initial and Final Part 21.21(d)(4) Report for GEH NUMAC PRNM System**

**Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect:**

Address on original purchase order:

GE Hitachi Nuclear Energy  
3901 Castle Hayne Rd.  
PO Box 780  
Wilmington NC 28402-0780

**Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply:**

Evaluation of the GEH identified deviation by MNGP determined that this defect presents a vulnerability which could allow unauthorized changes to the PRNM System that can result in an APRM flux reading either below or above its Technical Specification  $\pm 2\%$  band. Therefore, MNGP determined this defect could create a Substantial Safety Hazard.

No evidence exists that use of the identified vulnerability was exploited.

**The date on which the information of such defect or failure to comply was obtained:**

This defect was evaluated according to the station's Part 21 reporting process. The evaluation was completed on May 5, 2021 and the reporting officer was informed on May 6, 2021.

**In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part:**

The NUMAC PRNMS was purchased from GEH and received and inspected by Monticello in January 2009. The system was installed during the months of March and April of 2009 and the Pre-Operation and Startup testing was completed and reviewed by May 2009.

The GEH Safety Communication SC 21-02 for PRC 21-02, Transfer of Information, attachment 1 contained a list of potentially affected plants.

**Initial and Final Part 21.21(d)(4) Report for GEH NUMAC PRNM System**

**The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action:**

GEH has incorporated this into their corrective action program CR ID # 36035. No further information on the vendor's corrective actions is known.

MNGP entered the condition into the MNGP Corrective Action Program (QIM 501000048004).

- 1) Monticello Procedure for LPRM I/V Curves IMP-1027, was quarantined by PCR 602000019314.
- 2) A review to determine immediate actions was performed.
- 3) Additional corrective actions will be evaluated and addressed under the CAP, such as application of administrative controls and reviewing equipment assessments.

The Boiling Water Reactor Owners Group (BWROG) is considering whether an industry response is warranted.

**Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees:**

None.

**In the case of an early site permit, the entities to whom an early site permit was transferred:**

Not applicable.