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FROM: Northern States Power Co. Minneapolis, Minn. 55401 L.O. Mayer	DATE OF DOC: 8-25-72	DATE REC'D 8-28-72	LTR X	MEMO	RPT	OTHER
TO: Peter A. Morris	ORIG 1 signed	CC 39	OTHER	SENT AEC PDR ✓ SENT LOCAL PDR ✓		
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DESCRIPTION: Ltr furnishing info on HPCI System for the period 5-3-71 to 8-15-72 for Monticello Plant.....

ENCLOSURES:

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ACKNOWLEDGED

PLANT NAMES: Monticello Plant

FOR ACTION/INFORMATION 8-28-72 Apel

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NORTHERN STATES POWER COMPANY

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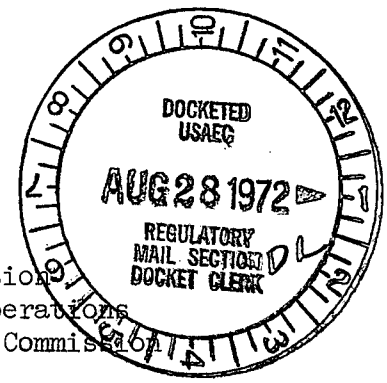

August 25, 1972

Peter A Morris, Director
Office of Operations Evaluation
Directorate of Regulatory Operations
United States Atomic Energy Commission
Washington, D C 20545

Dear Dr. Morris:

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

HPCI Operating Experience Information

The following information is submitted in response to your request for operating experience information regarding the High Pressure Coolant Injection (HPCI) System. The data present covers the period from completion of system startup testing, May 3, 1971 to August 15, 1972.

1. The HPCI system has been "removed from service" and "declared inoperable" eighteen (18) times for the purpose of routine instrument surveillance tests in accordance with prescribed procedures.

   The HPCI system was "declared inoperable" an additional four (4) times and "removed from service" on only one (1) of these occasions.

   (The system is considered "removed from service" when administrative instructions are implemented to isolate or otherwise physically prevent the system from performing its function. The system is considered "inoperable" when it is removed-from-service or fails to function in accordance with Technical Specifications.)

2. The cumulative removed-from-service time for instrument surveillance testing was approximately 36 hours.

   Additionally, the HPCI system was declared "inoperable" for a cumulative total of 29 days. Of this total "inoperable" time, the system was "removed-from-service" for only 16 days. The plant remained in a condition of Power Operation only 4 days during the period when the HPCI was removed from service and was placed in a condition of cold shutdown the remainder of the 16 day period.

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3. The following routine tests were conducted on the HPCI system:

		Total No	(a)*	(b)*
(i).	HPCI Pump Operability Test	19	13	6
(ii).	HPCI Flow Rate Test	11	11	-
(iii).	HPCI High Steam Flow Isolation Test	18	18	-
(iv).	HPCI High Temperature Isolation Test	14	14	-

*(a). Functioned in accordance with design
(b). Failed to function in accordance with design

The six instances of "failure to function in accordance with design" as shown above for (i). HPCI Pump Operability Test are reported as logged at the time these tests were performed. Subsequent evaluation indicated that five of these instances were not accountable as failures-to-function but rather were attributable to surveillance test conditions of main steam line flow effects on the HPCI flow metering that would not be present for the design conditions under which the HPCI system must operate. In the initial instances, the system was declared inoperable while resolution was sought. This is discussed in Ref. (1), (2), and (3). During this time, however, the HPCI system was able to function in accordance with design, as evidenced in Ref. (4).

Recent HPCI problems are discussed in Ref. (5) and (6).

4. During reactor operation, the HPCI has received a signal to operate one (1) time when the system was in service (Ref. 4) and one (1) time when the HPCI was out of service (Ref. 7).

5. There have been no instances during reactor operation when the HPCI received a signal to start and failed to function in accordance with design.

We hope that this information is suitable for your needs.

Yours very truly,

L. O. Mayer

L O Mayer, P.E.
Director of Nuclear Support Services

LOM/DWJ/br

Attachment: List of references

cc: B H Grier

Regulatory File Cy.

References:

Received w/Ltr dated 8-25-72

(1). NSP letter to AEC, "Inoperability of the High Pressure Coolant Injection System," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, R O Duncanson to P A Morris, dated September 15, 1971

(2). NSP letter to AEC, "Inoperability of the High Pressure Coolant Injection System," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, R O Duncanson to P A Morris, dated September 28, 1971

(3). NSP letter to AEC, "Planned Modifications to High Pressure Coolant Injection System Steam Line Flow Sensing Device," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, L O Mayer to P A Morris, dated March 2, 1972

(4). NSP letter to AEC, "Reporting of Unusual Occurrences," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, R O Duncanson to P A Morris, dated October 5, 1971

(5). NSP letter to AEC, "Reporting of High Pressure Coolant Injection System Failure," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, L O Mayer to A Giambusso, dated July 27, 1972

(6). NSP letter to AEC, "Fast Start Failure of the High Pressure Coolant Injection System," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, L O Mayer to A Giambusso, dated August 3, 1972

(7). NSP letter to AEC, "Turbine Trip at 100% Power and Subsequent Events," Monticello Nuclear Generating Plant, Docket No. 50-263, License No. DPR-22, L O Mayer to A Giambusso, dated July 20, 1972