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**NORTHERN STATES POWER COMPANY**

MINNEAPOLIS, MINNESOTA 55401

August 30, 1979

United States Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Washington, D.C. 20555

Attention: Director, Division of Reactor  
Construction Inspection

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

The following response is submitted in response to IE Bulletin No. 79-15. The information requested is presented numerically as requested in the Bulletin.

1. Two safety-related systems at Monticello utilize deep draft pumps. The Emergency Service Water System has two such pumps, and the RHR Service Water (RHR SW) System has four.

2. Manufacturer, Model, Capacity, and Plant Application

Emergency Service Water

- a. Manufacturer - Worthington

- b. Model - Open type, wet-pit, 3 stage centrifugal  
Model 10M-50-3

- c. Capacity - 500 gpm @ 52 psi

- d. Plant Application - Provide cooling water to emergency diesel generators and critical reactor building equipment which must operate under loss-of-station power and accident conditions.

Loads - (1) HPCI Room Ventilation  
(2) RHR & CS pump motors  
(3) RHR Room Ventilation

RHR SW Pumps

- a. Manufacturer - Johnston Pump

- b. Model - 6 stage, 18 cc

- c. Capacity - 3500 gpm @ 271 psi

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- d. Plant Application - Provide cooling water to the RHR System heat exchanger and provide an emergency supply of water to the core via the RHR system.

## 3. Overall Dimensions of Pumps

### Emergency Service Water Pumps

pump length (including suction bell)	43 3/4"
coupling length (pump to baseplate)	20' 4"
suction bell diameter	11"
discharge casing length	40"
motor length	26 1/2"

### RHR Service Water Pumps

pump length (including suction bell)	8' 4 1/2"
coupling length (pump to baseplate)	13' 11 3/4"
suction bell diameter	17 1/2"
discharge casing length	4'
motor length	5' 3 1/4"

## 4. Summary of Startup, Testing, and Routine Maintenance History

### Emergency Service Water Pumps

No problems were experienced during startup or preoperational testing. Routine testing is per Section XI during the monthly diesel generator test. No problems have been experienced.

### RHR SW Pumps

All four RHR SW pumps were replaced in April and May of 1979 by pumps with lower shutoff head to assure compatibility with the system design. They were installed and tested under the supervision of a Johnston pump representative. No problems were experienced with the pumps. Routine testing is per Section XI. No maintenance problems have thus far occurred.

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5. Operational Problems and Major Repair Efforts

Emergency Service Water Pumps

None.

RHR Service Water Pumps

All four pumps were replaced in 1979. There have been no problems with the new pumps.

6. Operational History

Emergency Service Water Pumps

- a. The longest interval that these pumps have been available for operation without corrective maintenance is the total pump hours since no such maintenance has been performed since installation.

#11 and #12 Emergency Service Water Pumps: approximately 520 hours

- b. The pumps are run only during monthly diesel generator surveillance testing for about two hours.

- c. Each pump was once run for about five hours at rated flow. They were operable with no problems at the end of this run.

RHR SW Pumps

- a. All four of the pumps have been available for operation since installation. Total operating hours are --

#11 RHR SW Pump - 2 hours

#12 RHR SW Pump - 36 hours

#13 RHR SW Pump - 11 hours

#14 RHR SW Pump - 31 hours

- b. The pumps are run during plant operation only for Section XI testing once a month and for torus cooling when needed.

- c. #12 pump was operated for about 13 hours in the torus cooling mode. The pump was operable with no problems at the end of the run.

Yours very truly,

*L. J. Wachter*

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Vice President - Power Production  
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cc: Mr. James G. Keppler  
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