JAN 18 1974

Docket No. 50-263

Northern States Power Company
ATTN: Mr. E. C. Word
414 Nicollet Mall
Minneapolis, Minnesota 55401

Gentlemen:

We are reviewing your report dated August 1973 on postulated pipe failures outside containment and have additional questions which are enclosed. References to the pages of your report have been added to some questions to aid you in identifying the area in which additional information is required.

Please provide your response to these questions by March 4, 1974. It is requested that the answers be provided with one signed original and thirty-nine additional copies.

Sincerely,

Original Signed by:
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Directorate of Licensing

Enclosure:
Question List

cc w/enclosures:
See next page

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Form AEC-318 (Rev. 9-53) AECM 0240 GPO 643—16—81465-1 445-678

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QUESTIONS ON MONTICELLO HIGH ENERGY
LINE BREAKS OUTSIDE OF CONTAINMENT

1. Provide the design pressure of the following:

   a. Condenser compartment (page 16)
   b. HPCI compartment (page 24)
   c. RWCU pump and heat exchange rooms (page 29)
   d. Main steam chase

2. What was the basis of the time of 10 minutes used for operator action? What is the maximum time allowed before the safety valves would open? (paragraph 6.2.1.(4) page 19)

3. Submit the details of the additional protection mentioned in paragraph 6.2.2(1). (page 20 and 34)

4. Since the torus is not strictly a pipe, the statement that the torus will not be damaged because the torus wall thickness is greater than that of the HPCI steam line, may not be accurate. Similar circumstances on other BWR torus plants necessitated the installation of impact plates or restraints to prevent the HPCI and RWCU lines from impacting the torus. An analysis must be performed to show the impact energy the HPCI line would have upon the torus. Please submit such an analysis for all high energy lines which could impact the torus. (page 23)

5. What are the environmental consequences of a primary steam sample line break on any safety related equipment or cabling? (page 30)

6. What are the environmental consequences of a main steam or feedwater sensing line break on safety related equipment or cabling? (page 32)