

Docket No. 50-263

SEP 17 1974

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Docket File

AEC PDR

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TJ Carter

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ORB #2 Reading

RMDiggs

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ACRS (16)

Northern States Power Company
ATTN: Mr. L. O. Mayer, Director of
Nuclear Support Services
414 Nicollet Mall
Minneapolis, Minnesota 55401

Gentlemen:

By letter ⁽¹⁾ dated January 23, 1974, you submitted descriptive and analytical information related to a proposed plant modification, a new concept identified as a Prompt Relief Trip (PRT) system. In effect, the proposed PRT system anticipates pressure increases resulting from a turbine or generator trip and promptly opens relief valves before the pressure increases to the overpressure set point (1080 psig + 1%) that causes the safety/relief valves to open in time to prevent excessive core coolant pressure. The resultant pressure transients are smaller because the safety/relief valves open earlier. A limited approval ⁽²⁾ to proceed with the installation of selected portions of the proposed PRT system during the 1974 Spring refueling outage was granted after meeting with NSP representatives on February 20 and 21, 1974 to review the proposal. It was anticipated ⁽²⁾ that our evaluation of the proposal including the analytical methods ⁽³⁾ would be completed by September 1974. However, we have not received responses to the various requests we have made for additional information related to system reliability ⁽⁴⁾ and analytical methods. You later ⁽⁵⁾ submitted additional

- (1) NSP submittal "Permanent Plant Changes to Accommodate Equilibrium Core Scram Reactivity Insertion Characteristics".
- (2) Directorate of Licensing letter to NSP dated March 14, 1974 - includes minutes of February 20-21, 1974 meeting with NSP representatives and a safety evaluation.
- (3) Analytical Methods of Plant Transient Evaluations for the General Electric Boiling Water Reactors (Ref. NEDO-10802 February 1973).
- (4) Directorate of Licensing letter to NSP dated April 4, 1974 requests additional information in six different areas by April 30, 1974.
- (5) NSP submittal dated April 10, 1974 listed technical specification changes necessary to resume reactor operation following refueling and noted that the PRT system was not required until 4200 MWD fuel depletion is achieved during cycle 3 operation.

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SEP 17 1974

information to allow reactor operation for a limited period of time during fuel cycle 3 without the PRT system. Additional questions⁽⁶⁾ of a generic nature were forwarded to General Electric by the Directorate of Licensing and our progress in evaluating the analytical methods⁽³⁾ used in the PRT proposal were discussed by telephone and during meetings⁽⁷⁾ with General Electric representatives. Only partial responses⁽⁸⁾ to our concerns have been received. By letter dated June 25, 1974, we rejected certain PRT panel wiring and testing features. The purpose of this letter is to inform you that since we have been unable to resolve our concerns related to the PRT system and analysis we cannot complete our evaluation within the time frame originally stated (September 1974) and we cannot continue our evaluation until you have provided the requested information.

Sincerely,

Original signed by:

Karl R. Goller

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

- (6) Directorate of Licensing letter (V. A. Moore) to General Electric Company (J. A. Hinds) dated April 22, 1974 requested generic information by May 1, 1974.
- (7) Minutes of Meeting with General Electric representatives on May 15-16, 1974 to review PRT analytical methods (by Leo Beltracchi - dated June 20, 1974). Status of AEC review included as enclosure 1.
- (8a) NSP letter dated April 26, 1974 promises responses to Directorate of Licensing's April 4, 1974 request for additional info and reviews status of modification progress during the outage.
- (8b) NSP letter dated April 26, 1974 discusses dynamic analysis results of Safety/Relief valve operation.
- (8c) NSP submittal dated May 13, 1974 responds to April 4, 1974 Directorate of Licensing letter.

cc: See next page

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SURNAME ➤	JJSnea:aw	DLZiemann	KRGoller		
DATE ➤	9/16/74	9/16/74	9/17/74		

Northern States Power Company

- 3 -

SEP 17 1974

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