

FROM: Northern States Power Company
 Minneapolis, Minnesota 554
 L. O. Mayer

DATE OF DOCUMENT:
 1-28-72

DATE RECEIVED:
 2-1-72

NO.:

TO: Dr. Peter A. Morris

LTR. MEMO: REPORT: OTHER:

ORIG.: 1 CC: OTHER:

ACTION NECESSARY CONCURRENCE DATE ANSWERED:
 NO ACTION NECESSARY COMMENT BY:

CLASSIF.: U POST OFFICE REG. NO:

FILE CODE: 50-263

DESCRIPTION: (Must Be Unclassified)
 Ltr reporting a condition on 1-20-72...
 The core spray injection valve, (MO-1753)
 failed to open...w/attached drawing...

REFERRED TO	DATE	RECEIVED BY	DATE
Knuth w/9 cys for ACTION	2-2-72		
DISTRIBUTION:			

ENCLOSURES:

→ Reg File
 AEC PDR
 OGC Rm P-506-A
 Compliance (2)
 Muntzing & Staff
 D. Thompson
 Skovholt
 Boyd

REMARKS:
 (Local PDR - Minneapolis, Minnesota)

E. G. Case
 DTIE (Laughlin)
 NSIC (Buchanan)

**Do Not Remove
 ACKNOWLEDGED**

583

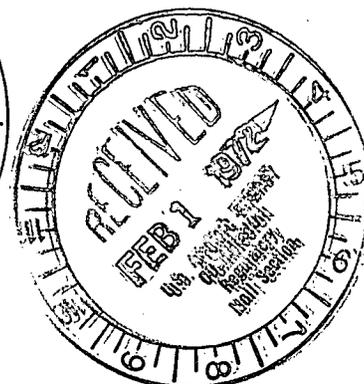
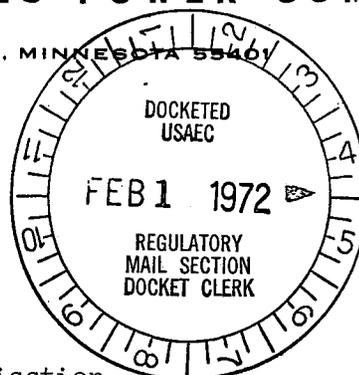
rht

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

January 28, 1972

Dr. Peter A Morris
Division of Reactor Licensing
United States Atomic Energy Commission
Washington, D C 20545



Dear Dr. Morris:

MONTICELLO NUCLEAR GENERATING PLANT

Docket No. 50-263 License No. DPR-22
Reporting of Malfunction of Core Spray Injection Valve

A condition occurred at the Monticello Nuclear Generating Plant recently which we are reporting to your office in accordance with provisions of Section 6.6.B.2 of Appendix A, Technical Specifications, of the Provisional Operating License DPR-22. The Region III Compliance office has been notified of the occurrence.

During the procedure for filling and pressurizing the core spray piping in preparation for a reactor startup on January 20, 1972, it was found that the core spray injection valve, MO-1753, did not open. A cutaway view of the operator is attached. The operator motor turns the worm gear drive which in turn rotates the drive sleeve. The stem nut which sits inside the drive sleeve is threaded internally to mesh with the valve stem; the stem nut is splined such that it cannot rotate within the drive sleeve. A jam nut screws into the drive sleeve to hold the stem nut in place as the drive sleeve turns. The threads are staked to keep the jam nut from unscrewing. On investigation of MO-1753, it was found that the jam nut had unscrewed completely, allowing the stem nut to ride up the valve stem as the drive sleeve rotated. Position indication is from switches in the motor operator; "open" and "close" indication was observed without the valve opening.

The immediate solution to correct MO-1753 was to replace the jam nut and drill and tap a vertical hole through the mating drive sleeve and jam nut threads; a set screw was then inserted to keep the jam nut from turning. All other motor operated valves of the same type were inspected. Out of 51 additional valve operators, no other jam nuts were found completely unscrewed from the drive sleeve. Nine jam nuts were found to have turned slightly. Five of these were fixed by inserting a roll pin between the jam nut and the drive sleeve. The other four were smaller valve operators;

NORTHERN STATES POWER COMPANY

Dr. P A Morris

- 2 -

January 28, 1972

they were fixed in place by restaking the threads. Each motor operated valve with this type of operator has been staked. All valves were confirmed to function properly by personnel stationed at the valve.

A Significant Operating Event report will be available at the plant for the Compliance Inspector.

Yours very truly,



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

LOM/MHV/br

Attachment

