APR 291980
Docket No. 50-409
Dairyland Power Cooperative
ATTN: Mr. F. W. Linder
General Manager
2615 East Avenue - South
La Crosse, WI 54601
Gentlemen:
The enclosed IE Information Notice No. 80-16 provides information on two instances of main steam swing check or isolation valves binding due to shaft packing.

> Sincerely,
> Charles G Nouque
> for James G. Keppler
> Director

Enclosure: IE Information
Notice No. 80-16
cc w/encl:
Mr. R. E. Shimshak,
Plant Superintendent
Central Files
Director, NRR/DPM
Director, NRR/DOR
PD
Local PDR
NSIC
TIC
Mr. John J. Duffy, Chief Boiler Inspector, Department of Industry, Labor and Human Relations

8005220252

# UNITED STATES <br> <br> OFFICE OF INSPECTION AND ENFORCEMENT <br> <br> OFFICE OF INSPECTION AND ENFORCEMENT WASHINGTON, DC 20555 

8002280667

April 29, 1980
IE Information Notice No. 80-16

## SHAFT SEAL PACKING CAUSES BINDING IN MAIN STEAM SWING DISC CHECK AND ISOLATION VALVES

## Description of Circumstances:

Recently two instances of binding of swing check valves have occurred. During disassembly of the main steam isolation valves at Indian Point 2, it was observed that all four reverse flow check valves were stuck at or near fully open. These $28^{\prime \prime}$ valves are manufactured by Atwood \& Morrill Co.

Investigation revealed that this condition was apparently caused by excessively tight shaft packing which did not allow free movement of the valve disc.

This condition was reported on January 31, 1980. An evaluation determined that with the existence of the reported condition in event of a main steam line break upstream of a main steam isolation valve together with coincident single failure of a main steam isolation valve to close in another loop, the potential existed for blowdown of the contents of two steam generators.

Main steam line break analyses applicable to Indian Point 2 have been performed assuming blowdown of the contents of one steam generator and have not considered multiple steam generator blowdown. Therefore, it is possible that the reported condition could have contributed to the exceeding of a safety limit as defined in the Unit 2 Technical Specifications if a main steam line break had occurred.

The reported condition was corrected by adjusting the packing of these valves in all four loops and verifying that valve disc movement is not restricted.
During testing in the hot standby mode at the Trojan Nuclear Plant on April 15, 1980, three of the four main steam line isoiation valves failed to close when manually actuated. The cause of the occurrence was binding in the shaft packing. The valve is air opened and is closed by gravity, steam flow and a small spring force; the valves were manufactured by Atwood \& Morrill Co. The licensee believes that the valves would have closed during actual operations with steam flow in the line. The valves were repaired and tested satisfactorily. Modifications to the valves to install air operators to help close the valves are being investigated by the licensee.

This Information Notice is provided as notification of a possible significant matter. It is expected that the recipients will review the information for possible applicability to their facilities and appropriate corrective action taken.

No written response to this IE Information Notice is required.

IE Information Notice No. 80-16
April 29, 1980
RECENTLY ISSUED
IE INFORMATION NOTICES

| Information <br> Notice No. | Subject | Date <br> Issued | Issued To |
| :--- | :--- | :--- | :--- |
| 80-15 | Axial (Longitudinal) <br> Oriented Cracking In <br> Piping | $4 / 21 / 80$ | All light water reactor <br> facilities holding power <br> reactor OLs or CPs |
| 80-14 | Safety Suggestions From <br> Employees | $4 / 2 / 80$ | All power reactor <br> facilities with an |
| OL or CP |  |  |  |

