



Atwood and Morrill Co., Inc.
Designers and Manufacturers Since 1901

285 CANAL STREET SALEM, MASSACHUSETTS 01970 PHONE 508 744 5690 508 744 5691
FAX 508 744 5626 TELEFAX 94 0289

April 27, 1993

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

CERTIFIED MAIL

Attention: Document Control Desk
Subject: Potential 10 CFR 21 Report
Failure of MSIV to Close
Gulf States Utilities - River Bend Nuclear Station

Gentlemen:

A&M has become aware of a failure of one (1) MSIV to close at the subject nuclear plant. The failure to close has been determined to be "cocking" of the MSIV poppet in the open position in the valve body at the bottom rib.

This letter will provide notification that the subject failure is being reported to US BWR and PWR Nuclear Plants having A&M MSIV's of similar design. The complete list of plants notified is attached.

The exact cause of the failure is being investigated. Indications are that the valve poppet, in the open position, vibrates and/or rotates as a result of fluid-borne disturbances or pipeline vibrations. This motion causes wear of the lower guide rib.

In the case of the MSIV at River Bend, this wear appears to have been sufficient to allow the poppet to engage the worn area of the lower guide rib in the valve body and fail to close.

In addition, the potential exists that clearances and alignment between parts may have contributed to this wear.

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This notification is being provided so that each nuclear plant can evaluate whether this failure to close is reportable under 10 CFR Part 21.

Certain MSIV's have been modified to preclude the damage resulting from the above mentioned vibration.

I trust the information provided herein is acceptable.

Please advise if we can supply additional information.

Very truly yours,

ATWOOD & MORRILL CO., INC.



S. N. Shields

Vice President Engineering

Attachment

MAIN STEAM ISOLATION VALVES

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MANUFACTURED BY**ATWOOD & MORRILL CO., INC.****PWR UNITS**

<u>Utility</u>	<u>Station</u>	<u>Quantity and Valve Size</u>
Duke Power Co.	Catawba 1 & 2	8 34-inch
Duke Power Co.	McGuire 1 & 2	8 32-inch
Houston Lighting & Power	South Texas Project 1 & 2	8 32-inch
South Carolina Elec & Gas	Virgil Summer 1	3 32-inch
TVA	Bellefonte 1 & 2	8 32-inch
TVA	Sequoyah 1 & 2	8 32-inch
TVA	Watts Barr 1 & 2	8 32-inch
Duquesne Light	Beaver Valley 2	3 28-inch

NOTE: All valves are wye pattern unless otherwise specified.

MAIN STEAM ISOLATION VALVES

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MANUFACTURED BY**ATWOOD & MORRILL CO., INC.****BWR UNITS**

<u>Utility</u>	<u>Station</u>	<u>Quantity and Valve Size</u>
Boston Edison	Pilgrim 1	8 20-inch
Cleveland Elec. Illuminating	Perry 1 & 2	16 26-inch
Detroit Edison	Enrico Fermi 2	8 26-inch
Georgia Power	Hatch 1	8 24-inch
Gulf States Util.	River Bend 1	8 24-inch
Illinois Power	Clinton 1	8 24-inch
GPU Nuclear	Oyster Creek 1	4 24-inch
Mississippi Power & Light	Grand Gulf 1 & 2	16 28-inch
Niagara Mohawk Power Corp.	Nine Mile Point 1	2 24-inch angle pattern 2 24-inch
Northern States Power Co.	Monticello	8 18-inch
Pennsylvania Power & Light	Susquehanna 1 & 2	16 26-inch
Philadelphia Electric	Limerick 1 & 2	16 26-inch
Philadelphia Electric	Peach Bottom 2 & 3	16 26-inch

MAIN STEAM ISOLATION VALVES

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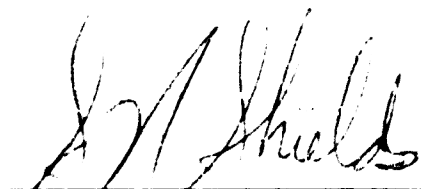
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MANUFACTURED BY

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BWR UNITS (cont'd)

<u>Utility</u>	<u>Station</u>	<u>Quantity and Valve Size</u>
Public Service Electric & Gas	Hope Creek 1 & 2	16 26-inch Unit 2 cancelled
TVA	Browns Ferry 1, 2 & 3	24 26-inch
TVA	Hartsville A1, A2, B1 & B2	32 26-inch Units B1 & B2 cancelled
TVA	Phipps Bend 1 & 2	16 26-inch Units cancelled



S. N. Shields, V.P. Engineering
Atwood & Morrill Co., Inc.