

DMB

SNUPPS

Standardized Nuclear Unit
Power Plant System

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May 31, 1983

Nicholas A. Petrick
Executive Director

SLNRC 83- 0032 FILE: 0491.10.2
SUBJ: Westinghouse EMD Gate Valve
Position Indication Issue;
50.55(e) Final Report 83-01

Mr. John T. Collins, Director
Administrator, Region IV
U. S. Nuclear Regulatory Commission
Suite 1000, Parkway Central Plaza
Arlington, Texas 76012

Mr. James G. Keppler
Administrator, Region III
U. S. Nuclear Regulatory Commission
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Docket Nos.: STN 50-482 and 50-483

Reference: SLNRC 83-03, Westinghouse EMD Gate Valve Position Indication
Issue; 50.55(e) Interim Report 83-01, dated 1/21/83

Gentlemen:

The above reference provided information to the Nuclear Regulatory Commission, Regions III and IV Offices of Inspection and Enforcement, regarding a potential deficiency of the Westinghouse EMD gate valve position indication.

The issue involves the valve position indication for certain Westinghouse manufactured gate valves. An indication of "closed" could occur prior to the valve disc fully isolating flow. If the valve should stall or bind following the premature closure indication being given, the operator would have an inaccurate indication of true valve position.

A geared limit switch rotor is set to provide an electrical bypass of the OPEN torque switch at the beginning of the opening stroke. On a closing stroke, this switch changes state before the flow path is completely blocked. As a result, it is likely that monitor and/or indicator lights also operated by that rotor will indicate valve closure slightly before the flow path is completely shut off. If the valve were to stop between this setpoint and the full shut off position, flow path through the valve could exist even though a CLOSED indication had been achieved.

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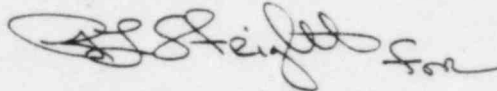
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A review of the applications of all the Westinghouse gate valves has been conducted to determine those valves for which adjustments or modifications may be needed to preclude erroneous "closed" indications and which could adversely affect safety of operations. The attachment provides a listing of those valves. This listing is based on those valves that could mask or compound another failure based upon a premature CLOSURE indication or a proper CLOSURE is required to provide correct indications in the event of multiple failures. The modification, if required, involves the addition of jumper wires to an alternate rotor so that the CLOSE signal can be obtained independently of the OPEN torque switch bypass setpoint.

Valve modifications and adjustments will be performed according to Westinghouse Field Change Notices SAPM-10605 and SCPM-10602 for the Wolf Creek and Callaway plants, respectively. All valve modifications will be performed prior to fuel load.

This letter constitutes the SNUPPS final position report on the Westinghouse EMD gate valve position indication issue.

Very truly yours,



Nicholas A. Petrick

JOC/nld5b6
Attachments

cc: G. L. Koester	KGE
D. T. McPhee	KCPL
D. F. Schnell	UE
J. H. Neisler	NRC/CAL
H. W. Roberds/W. Schum	NRC/WC

ATTACHMENT

Westinghouse EMD Gate Valves For Which Adjustments or Modifications May Be Needed

EM-HV 8802A	BB-HV 8037A	BN-LCV 112D*
EM-HV 8802B	BB-HV 8037B	BN-LCV 112E*
EM-HV 8835	BB-HV 8812A	EP-HV 8808A*
EJ-HV 8809A	BN-HV 8812B	EP-HV 8808B*
EJ-HV 8809B	EJ-HV 8811A	EP-HV 8808C*
EJ-HV 8840	EJ-HV 8811B	EP-HV 8808D*
EM-HV 8807A		BG-HV 8105 *
EM-HV 8807B		BG-HV 8106 *
EM-HV 8923A		BB-HV 8000A*
EM-HV 8923B		BB-HV 8000B*
EM-HV 8924		EM-HV 8821A*
EJ-HV 8716A		EM-HV 8821B*
EJ-HV 8716B		EM-HV 8801A*
EJ-HV 8701A		EM-HV 8801B*
EJ-HV 8701B		EJ-HV 8804A*
BB-PV 8702A		EJ-HV 8804B*
BB-PV 8702B		EM-HV 8803A*
EJ-FCV 610		EM-HV 8803B*
EJ-FCV 611		BN-HV 8806A*
BG-LCV 112B		BN-HV 8806B*
BG-LCV 112C		

* Design drawings show that the wiring configuration on these valves do not require modification. These valves will be adjusted to control CLOSURE indication with a limit switch.

NOTE: The installed wiring configuration of all the listed valves will be confirmed as part of the rework in accordance with the Field Change Notice. Valves requiring modifications will be modified. The remainder will be adjusted to control CLOSURE with a limit switch.