

SNUPPS

Standardized Nuclear Unit
Power Plant System

5 Choke Cherry Road
Rockville, Maryland 20850
(301) 869-8010

June 30, 1983

SLNRC 83-0034 FILE: 0491.10.2
SUBJ: Significant Deficiency Reports
(SDR's) 83-01 and 83-03

Mr. Richard DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos.: STN 50-482 and 50-483

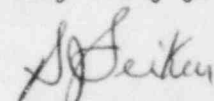
- References: 1) SLNRC 83-03, Westinghouse EMD Gate Valve Position Indication Issue: 50.55(e) Interim Report 83-01, dated 1/21/83
2) SLNRC 83-008, Significant Deficiency Report (SDR) 83-03 re Design and Installation of U-Bolt Restraints, dated 2/18/83
3) SLNRC 83-0032, Westinghouse EMD Gate Valve Position Indication Issue: 50.55(e) Final Report 83-01, dated 5/31/83

Dear Mr. DeYoung:

Copies of the referenced Signification Deficiency Reports were previously transmitted to the Directors of Regions III and IV. However, SNUPPS inadvertently failed to transmit a copy of each to the Washington Office, as required by internal procedures. Attached, herewith, are copies of the referenced reports.

If additional clarification is required, please feel free to contact the undersigned.

Very truly yours,



S. J. Seiken
Manager, Quality Assurance

WAB/dck/17b14

Attachments: References 1) through 3)

IE27
1/1

SNUPPS

Standardized Nuclear Unit
Power Plant System

5 Choke Cherry Road
Rockville, Maryland 20850
(301) 869-8010

Nicholas A. Petrick
Executive Director

January 21, 1983

SLNRC 83-03 FILE: 0491.10.2
SUBJ: Westinghouse EMD Gate Valve
Position Indication Issue;
50.55 (e) Interim Report 83-01

Mr. James G. Kepple, Director
USNRC
Office of Inspection & Enforcement, Region III
799 Roosevelt Road
Glen Elyn, Illinois 60137

Mr. John T. Collins, Director
USNRC
Office of Inspection and Enforcement, Region IV
611 Ryan Plaza Drive
Arlington, Texas 76102

Docket Nos.: STN 50-482 and 50-483

Gentlemen:

On December 23, 1982, SNUPPS informed the Nuclear Regulatory Commission, Region III and IV Offices of Inspection and Enforcement of a potential deficiency regarding the Westinghouse EMD gate valve position indication. This notification was based on information from Westinghouse provided on December 22 and 23, 1982 to SNUPPS. Westinghouse Water Reactor Divisions Safety Review Committee determined on December 22, 1982 that "a significant deficiency as defined in 10CFR 50.55(e) exists for Callaway and Wolf Creek" regarding this issue. Further details are provided herein on this matter, with this letter being an interim report. A follow-up report on this matter will be provided by May 31, 1983, when any specific corrective actions for each valve are defined.

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.

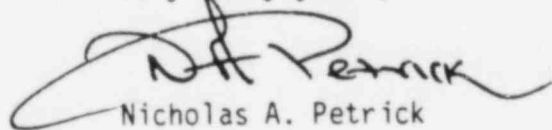
A geared limit switch rotor is set to provide an electrical bypass of the OPEN torque switch at the beginning of the opening stroke. On a closing stroke, this switch changes state before the flow path is completely blocked. As a result, it is likely that monitor and/or indicator lights also operated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

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Depending on the valve application and consequences of inaccurate closure indication, the wiring of certain valves may need to be altered to avoid the issue defined above. This conclusion is based on the Westinghouse generic wiring specification. Further checking is still required to ensure that these valves have not been modified to meet additional requirements or rewired as part of modifications to increase shut off pressure rating.

A review of the gate valve applications in the cold and hot leg safety injection lines for the SNUPPS plants has indicated that the valves tabulated in the attachment may require modification. This list includes all valves where incorrect position indication by itself may cause an unacceptable situation that could violate the established licensing basis. Valves identified in the attached listing are provided for information only. As stated above, any specific corrective actions for each valve will be defined by May 31, 1983.

Very truly yours,



Nicholas A. Petrick

JOC/nld2b27
Attachment

cc: G. L. Koester	KGE
D. T. McPhee	KCPL
D. F. Schnell	UE
J. H. Neisler	NRC/CAL
T. E. Vandel	NRC/WC
J. Konklin	NRC Region III
R. Redano	NRC Region IV

bcc:	J. Bailey	KGE
	A. Passwater	UE
	G. Rathbun	KGE
	R. Wendling	UE
	J. Smith	B
	R. Stright	Staff
	F. Schworer	Staff
	S. Seiken	Staff
	M. Fletcher	Staff
	R. White	Staff
	V. Sheffler	Staff

ATTACHMENT

Callaway Unit #1 and Wolf Creek

VALVES IN WHICH INCORRECT POSITION INDICATION BY ITSELF MAY CAUSE
AN UNACCEPTABLE SITUATION THAT COULD VIOLATE THE ESTABLISHED LICENSING
BASIS

8802A
8802B
8835
8809A
8809B
8840