

## LICENSEE EVENT REPORT

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 The NSSS vendor has notified BVPS that a high energy line break inside containment

[03] | could result in a potential steam generator level bias due to the heatup of the

0 4 | steam generator level measurement reference leg. This potential level bias could

05 | result in delayed protection signals (reactor trip and auxiliary feedwater

[06] initiation) which are based on low-low steam generator water level.

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SYSTEM CODE I A (11)		CAUSE CODE B (12)		CAUSE SUBCODE A (13)					COMPONENT CODE Z Z Z Z Z (14)					COMP SUBCODE Z (15)		VALVE SUBCODE Z (16)	
LER/RO REPORT NUMBER 7 9 (17)		EVENT YEAR 7 9 (21 22)		SEQUENTIAL REPORT NO. 0 1 5 (24 25 26)		OCCURRENCE CODE 0 1 (28 29)		REPORT TYPE T (30)		REVISION NO. 1 (32)							
ACTION TAKEN X (18)		FUTURE ACTION Z (19)		EFFECT ON PLANT Z (20)		SHUTDOWN METHOD Z (21)		HOURS 0 0 0 0 (22 23 24 25)		ATTACHMENT SUBMITTED Y (23)		NPRD-4 FORM SUB. N (24)		PRIME COMP SUPPLIER Z (25)		COMPONENT MANUFACTURER Z 9 9 9 (26 27 28 29)	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1	0	Temporary corrective action involves administratively raising the S/G low-low
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1 1 | level trip an addition 10 percent to 20 percent total Per Westinghouse Bulletin.

1 2 | During the upcoming refueling outage, the S/G level reference legs will be

13 | insulated. A technical specification change is being submitted to correct the

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 | potential problem

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FACILITY STATUS		% POWER			OTHER STATUS (30)			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION (32)										
1	5	G	(28)	0	0	0	(29)	N/A	D	(31)	Vendor Notification										

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PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	(37) Z (38) N/A				

PERSONNEL INJURIES		80	
NUMBER	DESCRIPTION	(41)	
1 8	0 0 0	(40)	N/A

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ISSUED	DESCRIPTION			NRC USE ONLY	
2 0	N 44	N/A			

NAME OF PREPARED J. A. Werling

PHONE: 412-643-1258

Attachment To LER 79-15/01T-1  
Beaver Valley Power Station  
Duquesne Light Company  
Docket No. 50-334

The NSSS vendor has notified BVPS that a high energy line break inside containment could result in a potential steam generator level bias due to the heatup of the steam generator level measurement reference leg. This potential level bias could result in delayed protection signals (reactor trip and auxiliary feedwater initiation) which are based on low-low steam generator water level. The high energy line break in containment will result in an increased reference leg water column temperature which in turn results in a decrease of water column density with a consequent apparent increase in the indicated steam generator water level (i.e., apparent level exceeding actual level). In the case of a feedline rupture, this adverse environment could be present and could delay or prevent the primary signal arising from declining steam generator water level (low-low steam generator level). Back-up signals which may be available include the following: overtemperature delta T, high pressurizer pressure, containment pressure, and safety injection. For other high energy line breaks which could introduce a similar positive bias to the steam generator water level measurement, steam generator level does not provide the primary trip function and the potential bias would not interfere with needed protective system actuation. By way of example, a containment temperature of 180F could result in a 3% bias in steam generator levels. Referring to the attached figures (Figure 14.3-57 and Figure 14.3-58 from the BVPS FSAR for a Hot Leg DER) a containment pressure in excess of 1.5 psig (which in turn actuates safety injection, auxiliary feedwater and reactor trip) occurs prior to the containment atmosphere being heated up to 180F. Thus, the possibility of a greater bias of the steam generator level signal above 180F for this particular case is not relevant to protection system actuation. In correcting the steam generator water level setpoint for this bias, the reference leg bias is additive to the existing setpoint.

Per Westinghouse bulletin, the steam generator low-low level trip will be administratively increased an addition 10 percent which results in 20 percent total. During the upcoming refueling outage, the steam generator level reference legs will be insulated. A technical specification change is being submitted to account for the required setpoint with the insulation installed.