

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) PALISADES PLANT										DOCKET NUMBER (2) 0 5 0 0 0 2 5 5										PAGE(S) 1 OF 3	
TITLE (4) Pressure Transmitter Calibration Error																					
EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)												
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES			DOCKET NUMBER(S)									
0 9	1 4	8 5	8 5	0 1 8	0 0	1 0	1 0	8 5	NA			0 5 0 0 0									
									NA			0 5 0 0 0									
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																			
POWER LEVEL (10)		20.402(b)			20.406(c)			80.73(a)(2)(iv)			73.71(b)										
0 1 0 0		20.406(a)(1)(i)			80.36(a)(1)			80.73(a)(2)(v)			73.71(a)										
		20.406(a)(1)(ii)			80.36(a)(2)			80.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Text, NRC Form 306A)										
		20.406(a)(1)(iii)			80.73(a)(2)(i)			80.73(a)(2)(vii)(A)													
		20.406(a)(1)(iv)			80.73(a)(2)(ii)			80.73(a)(2)(vii)(B)													
		20.406(a)(1)(v)			80.73(a)(2)(iii)			80.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)																					
NAME R A Fenech, Technical Engineer, Palisades										TELEPHONE NUMBER AREA CODE 6 1 6 7 6 4 - 8 9 1 3											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																					
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC											
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO											

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 14, 1985, with the Plant in hot standby, a calibration check determined that seven pressurizer pressure transmitters were outside of the required calibration range. Therefore, the transmitters and the Reactor Protection System high pressure channels were considered inoperable. Subsequently, the transmitters were satisfactorily calibrated and declared operable.

Evaluation of this occurrence determined that an error had occurred during a prior calibration of these instruments on August 27, 1985. The error resulted from a miscommunication of the equivalent pressure to be used for certain weights on a dead weight pressure tester. The practice of correlating equivalent pressures to dead weights will be reviewed. Adequate controls will be imposed to prevent further correlation errors.

An evaluation of this occurrence determined the resultant errors to be within the assumptions of the safety analysis. Therefore, no additional risk resulted from this event.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104  
EXPIRES 8/31/85

FACILITY NAME (1)  PALISADES PLANT	DOCKET NUMBER (2)  0 5 0 0 0 2 5 5	LER NUMBER (8) <table border="1"><tr><td data-bbox="1013 208 1117 236">YEAR</td><td data-bbox="1117 208 1235 236">SEQUENTIAL NUMBER</td><td data-bbox="1235 208 1344 236">REVISION NUMBER</td></tr><tr><td data-bbox="1013 257 1117 285">8 5</td><td data-bbox="1117 257 1235 285">— 0 1 8</td><td data-bbox="1235 257 1344 285">— 0 0</td></tr></table>	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	8 5	— 0 1 8	— 0 0	PAGE (3)  0 2 OF 0 3
YEAR	SEQUENTIAL NUMBER	REVISION NUMBER							
8 5	— 0 1 8	— 0 0							

TEXT (If more space is required, use additional NRC Form 365A's) (57)

At 1042 on September 14, 1985, with the Plant in hot standby (greater than 525 degrees, less than 2 percent of rated power), a calibration check determined seven pressurizer pressure transmitters [AB;PT] to be outside of the required calibration range. Therefore, the transmitters and the respective four Reactor Protection System high pressurizer pressure actuation channels [JC] were considered inoperable. Subsequently, the pressure transmitters were satisfactorily calibrated, and, at 1348 on September 14, the transmitters and the high pressure actuation channels of the Reactor Protection System were declared operable.

Evaluation of this occurrence determined that an error had occurred during a prior calibration of these instruments on August 27, 1985. The error resulted from a miscommunication of the equivalent pressure for certain weights utilized in a dead weight tester. The calibration error affected the following instruments:

<u>Instrument</u>	<u>Function</u>
PT-0101A and B	1) Alarm and indication 2) Pressurizer pressure control
PT-0102A, , C and D	1) Alarm and indication 2) Safety Injection actuation 3) Reactor Protection System actuation
PT-0103	1) Indication

The following pressurizer pressure transmitters were not affected:

<u>Instrument</u>	<u>Function</u>
PT-0104 [BP;PT]	1) Indication 2) Shutdown Cooling valve interlock
PT-0105A and B	1) Low Temperature Overpressure Protection alarm and actuation 2) Subcooled Margin Monitor

The dead weight tester provides an accurate pressure output for calibration purposes based on a specific weight input. In addition, the tester provides a multiplication factor based on the relative area of an internal piston. The weights may be brass or aluminum. The multiplication factor may also vary for different testers.

During the calibration of the pressure transmitters, the aluminum weights were required to provide a higher resolution in the pressure output. A table of weights and resultant pressures was available for the brass weights. No table had been provided for the aluminum weights.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		—	0 1 8	— 0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 305A g) (17)

To determine the equivalent pressures, the technician contacted a Consumers Power department responsible for control and calibration of test equipment. An equivalent pressure was provided for a one to ten ratio dead weight tester. The Plant uses a one to one hundred ratio tester.

This occurrence was attributed to a personnel error in that the variation in dead weight tester characteristics was not properly considered during the request for equivalent dead weight pressures. This practice of correlating the equivalent pressures resulting from the dead weight tester to a particular dead weight will be reviewed. Adequate controls will be provided to prevent any further correlation errors.

The miscommunication of the equivalent pressure resulted in an approximate 36 pound error for the transmitters. This error was determined to be within the assumptions of the transient analysis for the high pressurizer pressure trip. The high pressure trip is provided in conjunction with the primary and secondary safety valves to prevent primary system overpressure. For a Loss of Coolant Accident, low pressure actuation of various safety systems will result. The error in the transmitter calibration resulted in a more conservative setpoint for these systems. Therefore, no additional risk resulted from this occurrence.



Consumers  
Power  
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

October 15, 1985

US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT -  
LICENSEE EVENT REPORT 85-018 (RPS PRESSURE TRANSMITTER  
CALIBRATION ERROR)

Licensee Event Report (LER) 85-018 (RPS Pressure Trnasmitter Calibration Error) is attached. This event is reportable to the NRC per 10CFR50.73(a)(2)(ii) and 10CFR50.73(a)(2)(vii).

Brian D Johnson  
Staff Licensing Engineer

CC Administrator, Region III, USNRC  
NRC Resident Inspector - Palisades

Attachment

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