NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Zion Station, Unit 1	0 5 0 0 0 2 9 5	1 OF 0 2

TITLE (4)
Safety Injection Accumulator Tank Level Transmitters Out of Tolerance

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 5 0 0 0
0 7	3 0	8 2	8 2	0 2 4	0 1	0 7	1 9	8 5		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)			
1		20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
1 0 0		20.405(a)(1)(ii)	50.36(c)(2)	X 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Michael Lesnet, Tech Staff Engineer	AREA CODE 3 1 1 2 — 7 4 6 - 2 0 8 4

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
B	B Q	L T	M 0 4 0	N							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

On July 30, 1982, Unit 1 was operating at 100% power when safety injection accumulator tank 1B and 1D transmitters were found to be exceeding the ± 4.5% allowable tolerance. The actual level could have exceeded the maximum allowable level (868.14 cubic feet) by 8.27 and 4.13 cubic feet respectively. Discussions with Magnetrol reveal that hysteresis of the capacitance level probes can occur when the tank/probe is depressurized. Data taken after leaving cold shutdown in one outage and before depressurization in the next outage indicates little drift during plant operation. The transmitters drifted due to hysteresis during pressurization. The calibration is now done after pressurization to minimize the effects of hysteresis.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On July 30, 1982, Unit 1 was operating at 100% power when it was discovered that safety injection tanks 1B and 1D level transmitters were exceeding the allowable loop tolerance of ± 4.5%. The actual level in tanks 1B and 1D could have exceeded the maximum allowable level (868.14 cubic feet) by 8.27 cubic feet (14% low drift) and 4.13 cubic feet (7% low drift) respectively. Tanks 1A and 1C were within limits. Previous LER's 50-295/78-110, 50-304/78-73, 50-304/78-74, 50-295/83-53. The health and safety of the public was not affected.

The transmitters were recalibrated and returned to service. Discussions with the manufacturer, Magnetrol, reveal that hysteresis of the capacitance level probe can occur when the tank/probe is depressurized. Any calibrations that are done prior to or during cold shutdown may indicate an out of tolerance when the system is pressurized. Data taken after pressurization in one outage and before cold shutdown in the next outage indicates that the transmitters do not drift during plant operation. The transmitters are calibrated at the end of the outage when the plant is pressurized. This minimizes the effects of hysteresis. The system will not be affected by the hysteresis because the system is not required during cold shutdown. No further action is required.

Commonwealth Edison
Zion Generating Station
Shiloh Blvd. & Lake Michigan
Zion, Illinois 60099
Telephone 312/746-2084

July 19, 1985

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

References: 10CFR50

Dear Sir:

The enclosed Licensee Event Report revision from Zion Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73 (a)(2)(vii). This revision became possible when data was taken on the accumulator tank level transmitters during recent outages.

This report is number 82-024-01, Docket No. 50-295/DPR-39.

Very truly yours,

for K. L. Graesser
Station Manager
Zion Generating Station

KLG/rmm

Enclosure: Licensee Event Report No. 82-024-01

Attachment

cc: J. G. Keppler, NRC Region III Administrator
M. Holzmer, NRC Resident Inspector
INPO Record Center
CECo Distribution List

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