

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Nuclear Station/Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 7 3 1 OF 0 2TITLE (4)
Rx Vessel Hi Level HPCS Injection Valve Closure Switches (Out of Calibration)

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)
01	02	85	85	001	00	01	23	85			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)	9 9 15	20.402(b)	20.405(e)	90.73(a)(2)(iv)	73.71(b)						
		20.405(a)(1)(i)	90.38(a)(1)	X 90.73(a)(2)(v)	73.71(c)						
		20.405(a)(1)(ii)	90.38(a)(2)	90.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)						
		20.405(a)(1)(iii)	90.72(a)(2)(i)	90.73(a)(2)(vii)(A)							
		20.405(a)(1)(iv)	90.73(a)(2)(ii)	90.73(a)(2)(vii)(B)							
		20.405(a)(1)(v)	90.73(a)(2)(iii)	90.73(a)(2)(viii)							

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Harold Vinyard, extension 323	AREA CODE 815 315 171 4671 61

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
X	BIG	ILIIIS	I 1 21014	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

During the performance of LIS-HP-10, both LIS-B21-N100 A & B level switches for the HPCS injection valve high reactor level closure were found to be out of tolerance in the non-conservative direction. Since both switches were still operable, this would have resulted in injection valve auto-closure at a water level approximately one inch greater than Tech Spec requirements. Manual closure of the injection valve was also possible. The cause for both switches being out of tolerance appears to be instrument drift. Both switch setpoints were immediately recalibrated within Tech Spec limits. From a trending analysis on these switches and previous occurrences with other Barton switches, a plant modification has been initiated to replace these switches.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
LaSalle County Nuclear Station Unit 1	0500037384	—	001	—00	02	OF 02

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

I. EVENT DESCRIPTION

During the performance of surveillance procedure, LIS-HP-10, both LIS-B21-N100A & B level switches for the HPCS (BG) injection valve closure on high reactor vessel level were found to be out of tolerance in the non-conservative direction. In both cases, the maximum allowable Limiting Condition of Operation (56" - Tech Spec, Table 3.3.3-2) was exceeded. These switches are currently being tracked under the trend analysis program. Both switches were still operable, except that the HPCS injection valve would have closed at a level approximately one inch higher than required.

II. CAUSE

The cause of level indicating switches B21-N100A & B being out of tolerance appears to be instrument drift. At this time, the reason for instrument drift cannot be identified. These switches are manufactured by Barton.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The trip setpoints of these switches is 55.5" with a Tech Spec maximum allowable value of 56". Both switches were operable, but exceeded this maximum value by approximately one inch. The logic of operation is as follows. Each switch has two contacts associated with it that perform separate functions. One contact goes to an annunciator (Rx vessel Hi-Hi Alarm) while the other provides continuity to energize a relay which, when energized, closes the HPCS injection valve. Since the contacts for each of these switches are in series, the relay will energize and auto-close the injection valve only if both switches are tripped. The auto-close feature of the HPCS injection valve was still operable except that the valve would have closed at a higher level. In addition, manual control of the valve was possible, providing redundancy to the auto-close feature of the valve.

IV. CORRECTIVE ACTION

Indicating switches LIS-B21-N100A & B were immediately recalibrated. Conclusions from the trending analysis on these switches and previous occurrences with other Barton switches indicates a problem with this particular Barton model. A plant modification has been initiated to have these switches replaced.

V. PREVIOUS OCCURRENCES

Problems with the HPCS injection valve closure switches are documented in LER 83-023/03L-0.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Harold T. Vinyard, 815/357-6761, extension 323.



Commonwealth Edison
LaSalle County Nuclear Station
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Telephone 815/357-6761

January 23, 1985

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

Dear Sir:

Reportable Occurrence Report #85-001-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

R. D. Bishop
for G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director
INPO-Records Center
File/NRC

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