NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO 3150-0104
EXPIRES 8/31/88

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
LaSalle County Nuclear Station/Unit 1	0 5 0 0 0 3 7 3	1 OF 0 2

TITLE (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)
0 1	0 2	8 5	8 5	—	0 0 1	—	0 0	0 1	2 3	8 5		0 5 0 0 0
												0 5 0 0 0

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 9 5	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	X 50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	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
	AREA CODE
Harold Vinyard, extension 323	8 1 5 3 5 7 1 6 7 6 1

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

CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	
X	BIG	LII S	I 2 0 4	Y							

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)

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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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
LaSalle County Nuclear Station Unit 1	0 5 0 0 0 3 7 3	8 4	— 0 0 1	— 0 0	0 2 OF 0 2

TEXT (If more space is required, use additional NRC Form 366A'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.

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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.

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

GJD/MLD/kg

Enclosure

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

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