

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Unit 2

DOCKET NUMBER (2)

0 5 0 0 0 3 7 4

PAGE (3)

1 OF 0 3

TITLE (4)

2A Primary Containment Vacuum Breaker Cycle

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)
1	1	15	84	84	077	0	0	12	11	84	0 5 0 0 0
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OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)									
1	20.402(b)		20.405(c)		<input checked="" type="checkbox"/> X		80.73(a)(2)(iv)		73.71(b)	
POWER LEVEL (10)	0.90		20.405(a)(1)(i)		80.36(a)(1)		80.73(a)(2)(v)		73.71(c)	
			20.405(a)(1)(ii)		80.36(a)(2)		80.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 305A)	
			20.405(a)(1)(iii)		80.73(a)(2)(i)		80.73(a)(2)(vii)(A)			
			20.405(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(vii)(B)			
			20.405(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(ix)			

LICENSEE CONTACT FOR THIS LER (12)

NAME
Kermit C. Wittenburg, Extension 772

TELEPHONE NUMBER

AREA CODE

815 357 6761

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	B	F	VACB	G202	N				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) ☐ NO ☒ X

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

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

On November 15, 1984, at 1419 hours with Unit 2 operating at 90% power, the "A" Primary Containment Vacuum Breaker (BF) opened momentarily in order to equalize pressure between the Suppression Pool and the Drywell. At 0844 hours and at 1128 hours on 11/16/84, the "A" vacuum breaker again opened. After each event the vacuum breaker closed when the pressure differential decreased. The pressure drops in the drywell were caused by the tripping of the operating Primary Containment chiller (KM) and the subsequent restart of both chillers. The rapid drop in temperature was accompanied by a rapid pressure drop allowing the vacuum breaker to cycle open. Several instruments on the chillers were found to no longer be at the proper calibrated setpoints and thus the chiller unit was tripping on low chilled water temperature. Contributing factors also included the slow leakage of freon and oil from the chillers. In addition to adding oil and freon, the Maintenance Department calibrated the instruments back to the original setpoints. All three events were reported in accordance with 10CFR50.72.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 2	05000374	84	077	00	012	OF	013

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

I. EVENT DESCRIPTION

On November 15, 1984, at 1419 hours with Unit 2 operating at 90 percent power, the "A" Primary Containment Vacuum Breaker (BF) opened momentarily in order to equalize pressure between the Suppression Pool and the Drywell. At 0844 hours on November 16, 1984, with the unit at 95 percent power, the "A" Vacuum Breaker again cycled open at a drywell pressure of -.22 psig. It closed when the pressure reached -.18 psig. The breaker was open from 0844 hours to 0849 hours. At 1128 hours on the same day, with the drywell pressure at -.21 psig the "A" Vacuum Breaker again opened. It closed at 1138 hours when the drywell pressure dropped to about -.20 psig.

II. CAUSE

The basic cause of the pressure drops in the drywell relative to the suppression pool were caused by the cycling on and off of the Primary Containment chillers (KM). When a chiller would trip, the drywell temperatures would start increasing which causes the pressure to increase also. The other chiller would be started and as a precautionary measure the original chiller would be restarted to help decrease the temperatures in the drywell before any Technical Specification temperature setpoints might be exceeded. With both chillers operating, a fairly rapid temperature/pressure drop would be experienced which caused the vacuum breaker to open on differential pressure between the drywell and the suppression pool.

The nitrogen make-up controller was not working while in the "auto" position. While this device is not intended for normal control of drywell pressure, had it been operable, the extent of the drywell pressure drops could have been reduced.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The Primary Containment Vacuum Breakers operated as required to maintain pressure equalization between the drywell and the suppression pool. The loss of chilled water to the drywell cooling system did not cause the temperatures in the drywell to exceed any of the Technical Specification limits. The plant was maintained in a safe condition at all times.

IV. CORRECTIVE ACTIONS

An investigation into the cause of the chiller trip took place after the first event. It was finally determined that several instruments were no longer at the proper calibrated setpoints and thus the chiller unit was tripping on low chilled water temperature. Contributing factors include the slow leakage of freon and oil from the system. In addition to adding oil and freon, the Maintenance Department calibrated the instruments back to the original setpoints.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

V. PREVIOUS OCCURRENCES

No previous occurrences have been observed.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Kermit C. Wilsenburg, 815/357-6761, extension 772.



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

December 11, 1984

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

Dear Sir:

Reportable Occurrence Report #84-077-00, Docket #050-374 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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