

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) LaSalle County Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 7 4	PAGE IS 1 OF 0 3
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TITLE (4)  
Vacuum Breaker Venting from a Primary Containment Chiller Trip

EVENT DATE (5)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (6)													
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES													
1	1	2	1	8	4	8	4	—	0	8	0	—	0	0	1	2	1	8	8	4	NA	DOCKET NUMBER(S) 0 5 0 0 0 0

OPERATING MODE (9) 2

POWER LEVEL (10) 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)

20.407(b)	<input type="checkbox"/>	20.408(c)	<input checked="" type="checkbox"/>	80.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)	<input type="checkbox"/>
20.408(a)(1)(i)	<input type="checkbox"/>	80.38(e)(1)	<input type="checkbox"/>	80.73(a)(2)(v)	<input type="checkbox"/>	73.71(a)	<input type="checkbox"/>
20.408(a)(1)(ii)	<input type="checkbox"/>	80.38(e)(2)	<input type="checkbox"/>	80.73(a)(2)(vii)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 365A)	<input type="checkbox"/>
20.408(a)(1)(iii)	<input type="checkbox"/>	80.73(a)(2)(i)	<input type="checkbox"/>	80.73(a)(2)(viii)(A)	<input type="checkbox"/>		<input type="checkbox"/>
20.408(a)(1)(iv)	<input type="checkbox"/>	80.73(a)(2)(ii)	<input type="checkbox"/>	80.73(a)(2)(viii)(B)	<input type="checkbox"/>		<input type="checkbox"/>
20.408(a)(1)(v)	<input type="checkbox"/>	80.73(a)(2)(iii)	<input type="checkbox"/>	80.73(a)(2)(ix)	<input type="checkbox"/>		<input type="checkbox"/>

LICENSEE CONTACT FOR THIS LER (12)

NAME Charles K. Sprunger, extension 779	TELEPHONE NUMBER AREA CODE 8 1 5 3 5 7 1 7 6 7 6
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
X	B	F	V A C B G 2 0 2	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On 11/21/84 the Unit 2 "A" Primary Containment chiller tripped causing the containment air temperature and pressure to increase. The Unit 2 "B" Primary Containment chiller was started shortly after and the containment air temperatures and pressures decreased. This caused the vacuum breaker, 2PC001A, to open for approximately five minutes until the pressure between the Primary Containment and the Suppression Pool equalized. The vacuum breaker opened again a few minutes later as the temperatures and pressures continued to decrease in the Primary Containment. The pressure equalized and the vacuum breaker closed after one minute.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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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))

I. EVENT DESCRIPTION

On 11/21/84 with Unit 2 at less than 1% power in Mode 2, the "A" Primary Containment chiller (P.C. chiller, KM) tripped. Shortly after this the "B" P.C. chiller was started and placed on line at 0430 hours. The atmospheric pressure within the Primary Containment fell slightly as it was slowly cooled and at 0443 the vacuum breaker, 2PC001A, opened. The pressure equalized between the Primary Containment and the Suppression Pool and at 0448 hours the vacuum breaker closed. The Primary Containment cooled some more and the vacuum breaker, 2PC001A opened again at 0457 hours. The pressures equalized after one minute and the vacuum breaker closed and remained closed at 0458 hours.

II. CAUSE

Temperatures in the Primary Containment were stable prior to when the "A" P.C. chiller experienced a spurious trip. After the trip the Primary Containment Ventilation system (KM, VP) was unable to provide cooling, allowing temperatures and pressures in the containment to slowly increase from thermal radiation. The increase in the pressure in the containment increased the air pressure inside the Suppression Pool by slightly lowering the water level in the Downcomers and increasing the water level in the Suppression Pool. When the "B" chiller was started at 0430 hours the containment was suddenly cooled by convection from the VP system. Temperature and pressure inside the containment decreased much faster than they had increased. Now the containment was at a lower pressure than the Suppression Pool and vacuum breaker, 2PC001A, opened when the differential pressure was about 0.5 psig. The vacuum breaker remained open for approximately five minutes until the differential pressure was less than 0.5 psig.

At 0457 hours the containment continued to cool and the differential pressure between the Suppression Pool and containment again reached 0.5 psig. The same vacuum breaker opened for one minute until the differential pressure had equalized at less than 0.5 psig.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The Primary Containment vacuum breakers operated as required to maintain pressure equalization between the Primary Containment and the Suppression Pool. The loss of the P.C. chiller did not cause the containment temperature to exceed any of the Technical Specification limitations. The plant was maintained in a safe condition throughout the event.

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TEXT (if more space is required, use additional NRC Form 306A # (17))

IV. CORRECTIVE ACTION

An investigation into the cause of this and other spurious trips is in progress by the Electrical and Instrument Maintenance groups. Also the vendor (Carrier representative) is on site to assist in making field adjustments to the chiller's load control system and related instrumentation. Work is being performed under Work Request L43084 and L43904.

V. PREVIOUS OCCURRENCES

The P.C. chillers have tripped causing the vacuum breakers to open on another occasion. (See LER 050-374/84-077-00.)

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Charles K. Sprunger, 815/357-6761, extension 779.



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

December 18, 1984

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

Dear Sir:

Reportable Occurrence Report #84-080-00, Docket #050-374 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

*IE22*  
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