

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): LaSalle County Station Unit 1  
DOCKET NUMBER (2): 0 5 0 0 0 3 7 1 3  
PAGE 13  
1 OF 0 3

TITLE (4):

Chlorine Detector Actuations

EVENT DATE (5): MONTH DAY YEAR  
0 5 0 9 8 5 8 5  
LER NUMBER (6): YEAR SEQUENTIAL NUMBER REVISION NUMBER  
- 0 4 4 - 0 0  
REPORT DATE (7): MONTH DAY YEAR  
0 6 0 7 8 5  
OTHER FACILITIES INVOLVED (8):  
FACILITY NAMES: LaSalle Co. Unit 2  
DOCKET NUMBER(S): 0 5 0 0 0 3 7 1 4  
0 5 0 0 0 0 0 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11):  
OPERATING MODE (9): 1  
POWER LEVEL (10): 9 9 2  
20.402(b) 20.406(e) X 80.73(a)(2)(iv) 73.71(b)  
20.406(a)(1)(i) 80.36(a)(1) 80.73(a)(2)(v) 73.71(e)  
20.406(a)(1)(ii) 80.36(a)(2) 80.73(a)(2)(vi) 80.73(a)(2)(vii)(A)  
20.406(a)(1)(iii) 80.73(a)(2)(i) 80.73(a)(2)(vii)(B)  
20.406(a)(1)(iv) 80.73(a)(2)(ii) 80.73(a)(2)(ix)  
20.406(a)(1)(v) 80.73(a)(2)(iii)

LICENSEE CONTACT FOR THIS LER (12):

NAME: Richard J. Rohrer, extension 575  
TELEPHONE NUMBER: AREA CODE 8 1 5 3 5 7 1 - 6 7 6 4

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	V I	D E T	W O 2 5	N					

SUPPLEMENTAL REPORT EXPECTED (14):

YES (If you complete EXPECTED SUBMISSION DATE) X NO  
EXPECTED SUBMISSION DATE (15): MONTH DAY YEAR

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

At 2159 hours on May 9, 1985, both chlorine detectors for the "B" train of the Control Room/Auxiliary Electrical Equipment Room HVAC (VC/VE) system alarmed simultaneously resulting in Engineered Safety Feature (ESF) damper operations. No definite cause for the actuations could be found, but it is believed that these detectors are susceptible to radio-frequency interference.

Both detectors were reset and operated properly. The potential for radio-frequency interference will be investigated under Action Item Record 373-200-85-00072.

No consequences to plant safety or operability resulted from this event.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMA: 0104  
EXPIRES: 8/78

FACILITY NAME (1):	DOCKET NUMBER (2):	LER NUMBER (3):			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		85	044	00	02	OF	03

LaSalle County Station Unit 1

05000373815-044-0002 OF 03

TEXT (If more space is required, use additional NRC Form 204a) (17)

I. EVENT DESCRIPTION

On May 9, 1985, at 2159 hours both chlorine detectors (OAE-VC091A and OAE-VC091B), for the "B" train of the Control Room/Auxiliary Electrical Equipment Room HVAC (VC/VE), (VI) system tripped alarming in the Control Room and resulting in Engineered Safety Feature (ESF) damper actuations to isolate the "B" VC/VE train from outside air and to initiate recirculating air flow through charcoal filters. These measures are designed to prevent toxic gas from entering the critical control areas of the plant.

At the time the alarm was received, Unit 1 was in Operational Condition 1 (Power Operation) at 92% power and Unit 2 was in Operational Condition 4 (Cold Shutdown) at 0% power. The "B" VC/VE train was not in use.

II. CAUSE

A Work Request was written to determine the cause of the actuations, but no problems could be found with the chlorine detectors.

Since the chlorine detectors actuated simultaneously, it is believed that there must have been a common cause for the actuations. Recently it was determined that the chlorine detectors at LaSalle may be sensitive to radio-frequency interference (reference: LER 373/85-042-00). It is therefore possible that the cause for the actuations was radio-frequency interference.

The chlorine detectors were manufactured by Wallace & Tiernan and are model number 50-125.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

No consequences resulted from this event. The "B" VC/VE train was not in use, and the actuations had no effect on the operating "A" VC/VE train. The damper line-up resulting from the actuations was conservative.

IV. CORRECTIVE ACTIONS

The alarms were investigated, but no cause for the actuations could be found. Both detectors were reset, resulting in proper operation. Action Item Record 373-200-85-00072 has been written to investigate the sensitivity of the chlorine detectors to radio-frequency interference.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED ONE NO. 316-1104  
EXPIRES 8/31/85

FACILITY NAME (17)	DOCKET NUMBER (12)	LER NUMBER (8)			PAGE (3)																
		YEAR	SERIAL NUMBER	REVISION NUMBER																	
		0	5	0	0	0	3	7	3	8	5	-	0	4	4	-	0	0	0	3	OF

TEXT: (If more space is required, use additional NRC Form 254's (17))

V. PREVIOUS OCCURRENCES

Radio-Frequency interference was identified as a likely cause for spurious chlorine detector actuations in the event described in Licensee Event Report (LER) 373/85-042-00. Two other chlorine detector actuations were initially identified as spurious. It is possible that these actuations were caused by radio-frequency interference. These were reported in LER's 373/84-083-00 and 373/85-007-00.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Richard J. Rohrer, 815/357-6761, extension 575.



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

June 7, 1985

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

Dear Sir:

Reportable Occurrence Report #85-044-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

*for R.D. Biedy*  
G. J. Diederich  
Station Manager  
LaSalle County Station

GJD/DRR/kg

Enclosure

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

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