

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): LaSalle County Station Unit 1										DOCKET NUMBER (2): 0 5 0 0 0 3 7 3 1 OF 0 3										PAGE 18								
TITLE (4): Chlorine Trip of "B" VC/VE Train																												
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 NUMBERS														
0	8	2	3	8	5	8	5	0	6	2	0	0	0	9	2	0	8	5	LaSalle Co. Unit 2					0 5 0 0 0 3 7 4				
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 3			20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 20.73(a)(2)(iv)				73.71(b)													
			20.406(a)(1)(i)				20.38(a)(1)				20.73(a)(2)(v)				73.71(a)													
			20.406(a)(1)(ii)				20.38(a)(2)				20.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text: NRC Form 306A)													
			20.406(a)(1)(iii)				20.73(a)(2)(i)				20.73(a)(2)(vii)(A)																	
			20.406(a)(1)(iv)				20.73(a)(2)(ii)				20.73(a)(2)(viii)(B)																	
			20.406(a)(1)(v)				20.73(a)(2)(iii)				20.73(a)(2)(ix)																	
LICENSEE CONTACT FOR THIS LER (12):																			TELEPHONE NUMBER									
NAME Paul S. Watford, extension 323														AREA CODE 815357-16761														
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																		
B	V	I	D	E	T	W	Q	2	5	N																		
SUPPLEMENTAL REPORT EXPECTED (14):														EXPECTED SUBMISSION DATE (15):		MONTH	DAY	YEAR										
YES (If yes, complete EXPECTED SUBMISSION DATE):														<input checked="" type="checkbox"/> NO														

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

At 2105 hours on August 23, 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. Chlorine smells in the Auxiliary Equipment Room were reported to the Control Room. The Radiation Chemistry Department took samples in the room, other areas in the plant, and at the VC intake for the chlorine detectors. No chlorine was detected. 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 was investigated under Action Item Record 373-200-85-00072 and the results showed that all the detectors appear to be susceptible to radio frequency interference within a three foot range. Signs will be posted warning of the possible effects of radio frequency interference.

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

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 1	05000373	85	062	00	02	OF	03

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

I. EVENT DESCRIPTION

On August 23, 1985, at 2105 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. Chlorine smells in the Auxiliary Equipment Room were reported to the Control Room. The Radiation Chemistry Department took samples in the room, other areas in the plant, and at the VC intake for the chlorine detectors. No chlorine was detected.

At the time the alarm was received, Unit 1 and Unit 2 were in Operational Condition 1 (Power Operation) with reactor power at 93% and 95% respectively. The "B" VC/VE train was in use.

II. CAUSE

Since the chlorine detectors actuated simultaneously, it is believed that there must have been a common cause for the actuations. No definite cause for the actuations could be found, but it is believed that these detectors 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

The ESF actuations caused by this event placed the VC/VE system into a conservative configuration. No consequences resulted from this event.

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 was written to investigate the sensitivity of the chlorine detectors to radio-frequency interference. The results show that all the detectors appear to be susceptible to radio-frequency interference within a three foot range. The exact radio frequency used does not affect the results. Signs will be posted at the chlorine detectors prohibiting the use of radios within a ten foot radius of the detectors.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) LaSalle County Station Unit 1	DOCKET NUMBER (2) 05000373	LER NUMBER (8)			PAGE (3)		
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		85	062	00	03	OF	03

TEXT: If more space is required, use additional NRC Form 366A (11/77)

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 and 373/85-051-00. 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, 373/85-007-00, and 374/85-044-00.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Paul S. Watford, 815/357-6761, extension 323.



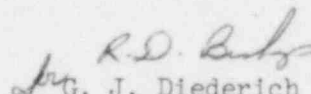
Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

September 20, 1985

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

Dear Sir:

Reportable Occurrence Report #85-062-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.


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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