

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): LaSalle County Station Unit 1										DOCKET NUMBER (2): 0 5 0 0 0 3 7 3										PAGE (3): 1 OF 0 3	
TITLE (4): Spurious Chlorine Detector Actuation																					
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									
									LaSalle County Unit 2			0 5 0 0 0 3 7 4									
0 8	0 7	8 5	8 5	0 5	9	0 0	0 9	0 5	8 5				0 5 0 0 0								
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(a)				20 408(e)				<input checked="" type="checkbox"/> 20 73(a)(2)(iv)				20 731(b)							
POWER LEVEL (10):		20 408(a)(1)(i)				20 36(a)(1)				20 73(a)(2)(v)				20 731(a)							
0 9 1 0		20 408(a)(1)(ii)				20 36(a)(2)				20 73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)							
		20 408(a)(1)(iii)				20 73(a)(2)(iii)				20 73(a)(2)(vii)(A)											
		20 408(a)(1)(iv)				20 73(a)(2)(iv)				20 73(a)(2)(vii)(B)											
		20 408(a)(1)(v)				20 73(a)(2)(v)				20 73(a)(2)(ix)											
LICENSEE CONTACT FOR THIS LER (12):																					
NAME										TELEPHONE NUMBER											
Paul S. Watford, extension 323										AREA CODE											
										8 1 1 5 3 5 1 7 1 - 1 6 1 7 6 1 1											
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	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC							
X	V I I	I D E I T	W O I 2 1 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)

On August 7, 1985, at 1340, the "B" Control Room Ventilation/Auxiliary Electric Equipment Room Ventilation System (VC/VE) Chlorine detector (OAE-VC091B) alarmed. The "B" VC/VE Charcoal Filter Trains, OVCO1FB/OVE01FB (odor eaters), were automatically placed in service as a result of the chlorine detector alarm. After determination that the alarm condition was spurious, the chlorine detector was reset.

A cause for the spurious chlorine detector alarm cannot be determined.

At the time of the occurrence, both Unit 1 and Unit 2 were in Operational Condition 1 (Run). The Engineered Safety Feature (ESF) actuation which occurred as a result of the chlorine detector alarm placed the HVAC systems in a conservative plant line-up. A LaSalle Instrument Surveillance (LIS-VC-01) calibrated and functionally checked the chlorine detectors two days previous.

The chlorine detector is manufactured by Wallace and Tiernan, a division of Penwalt Corp.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 1	05000373	85	059	010	02	OF	03

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

I. EVENT DESCRIPTION

On August 7, 1985, at 1340, the "B" Control Room Ventilation/Auxiliary Electric Equipment Room Ventilation System (VC/VE, VI) Chlorine Detector (OAE-VC091B) alarmed. An Operator was dispatched to investigate the cause for the alarm. The "B" VC/VE Charcoal Filter Trains, OVC01FB/OVE01FB (odor eaters), were automatically placed in service as a result of the chlorine detector alarm. The initiation of the charcoal filter trains is an Engineered Safety Feature (ESF) actuation. After determination that the alarm condition was spurious, the chlorine detector was reset.

II. CAUSE

The cause for the chlorine detector OAE-VC091B alarm cannot be determined as the alarm was spurious. A possible cause may have been a change in the drip rate either increasing or decreasing causing a signal transient resulting in an alarm. An interruption of the electrical signal for one brief instant could also result in an alarm. Also, it is believed that radio frequency interference can actuate the chlorine detector. -

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

At the time of the occurrence, both Unit 1 and Unit 2 were in Operational Condition 1 (Run) with reactor power at 90% and 90% respectively.

The effect the spurious high chlorine alarm had on the plant was to place the VC/VE HVAC "B" train in the Recirculation Mode with the charcoal filter trains, OVC01FB/OVE01FB in service. This is an ESF actuation and places the plant in a conservative line-up. Since the chlorine detector instrument was successfully reset immediately after discovery, the Action Statement of Technical Specification 3.3.7.8 was met.

IV. CORRECTIVE ACTION

After verification that the chlorine detector (OAE-VC091B) alarm was spurious in nature, the alarm was subsequently reset. The "B" VC/VE HVAC train was returned to its normal line-up, Charcoal Filter Bypass Operation

LaSalle Instrument Surveillance (LIS-VC-01), "Control Room HVAC System Chlorine Detector Calibration and Functional Test", was performed two days previous on August 5, 1985, and satisfactorily completed. No abnormalities or discrepancies were noted with any of the chlorine detectors.

Action Item Record 373-200-85-00072 was issued to evaluate the sensitivity of the chlorine detectors to radio frequency interference.

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LaSalle County Station Unit 1	0 5 0 0 0 3 7 3	8 5	— 0 5 9	— 0 0	0 3	OF	0 3

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

IV. CORRECTIVE ACTION (CONTINUED)

The detector is manufactured by Wallace and Tiernan, a division of Pennwalt Corp., model number 50-125.

V. PREVIOUS OCCURRENCES

LER 373/84-068
LER 373/84-084
LER 373/84-089
LER 373/85-007
LER 373/85-030
LER 373/85-044
LER 373/85-051

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 5, 1985

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

Dear Sir:

Reportable Occurrence Report #85-059-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

for R.D. Biele

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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