

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 (3)

TITLE (4)

Ammonia Detector ESF Actuation on Momentary Power Loss

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)
03	25	85	85	030	00	04	18	85	LaSalle, Unit 2		05000374
											05000

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
3		20.402(b)		20.406(c)	X	80.73(a)(2)(iv)		73.71(b)			
POWER LEVEL (10)	000	20.406(a)(1)(i)		80.36(a)(1)		80.73(a)(2)(v)		73.71(c)			
		20.406(a)(1)(ii)		80.36(a)(2)		80.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 306A)			
		20.406(a)(1)(iii)		80.73(a)(2)(i)		80.73(a)(2)(vii)(A)					
		20.406(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(vii)(B)					
		20.406(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(x)					

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Richard J. Rohrer, extension 575	8115 3157 167161

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	VI	DET	XXX	X					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X					

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

Both ammonia detectors for the "A" train of the Control Room/Auxiliary Electrical Equipment Room HVAC system (VC/VE, VI) alarmed and initiated Engineered Safety Feature (ESF) damper actuations when a momentary loss of power to the VC/VE system occurred. This event occurred at 1327 hours on March 25, 1985, while Unit 1 was in Hot Shutdown and Unit 2 was in Cold Shutdown.

Since the ammonia detectors are designed to alarm and seal in their alarm functions on loss of power, the alarms and ESF actuations persisted even though power was immediately restored to the VC/VE system. The system was manually returned to normal line-up and the alarms were reset approximately three hours after the event.

Investigation into the cause of the power failure did not reveal any irregularity in the power supply equipment for the VC/VE system.

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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 (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 1	0500037385	—	030	—	00	02	OF 03

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

I. EVENT DESCRIPTION

Both ammonia detectors (OXY-VC125A and OXY-VC125B) for the "A" train of the Control Room/Auxiliary Electrical Equipment Room HVAC system (VC/VE, VI) alarmed due to a momentary loss of power to the VC/VE system. This event occurred at 1327 hours on March 25, 1985, while Unit 1 was in Operational Condition 3 (Hot Shutdown) at 0% power and Unit 2 was in Operational Condition 4 (Cold Shutdown) at 0% power. All Engineered Safety Feature (ESF) damper actuations occurred as required by Technical Specification 3.7.2. These ESF actuations served to isolate the VC/VE system from outside air and to initiate recirculating airflow through charcoal filters. The Control Room alarm typer indicated that power was restored to the VC/VE system within one second after the power failure.

II. CAUSE

The cause of the alarms and ESF actuations was a momentary loss of power to the VC/VE system. Power was restored to this system within one second of its loss, but the ammonia detectors are designed to alarm, trip, and seal in their alarm functions on loss of power, so the alarms and ESF actuations persisted until they were manually reset approximately three hours after actuation.

The cause for the power failure was investigated but could not be determined because of its instantaneous nature. All power supply equipment to the VC/VE system remained in its normal configuration, and no faults were found in the system.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

All ESF damper actuations took place as if a high ammonia concentration had actually been detected in the air intake for the VC/VE system. Since power was immediately restored to the system and since the ESF actuations placed the system in a conservative line-up, no adverse consequences resulted from this event.

IV. CORRECTIVE ACTIONS

No corrective action was required to restore power to the VC/VE system. The alarms and damper actuations were manually reset approximately three hours after the event.

V. PREVIOUS OCCURRENCES

None.

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	0 5 0 0 0 3 7 3	8 5	— 0 3 0	— 0 0 0	3	OF	3

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

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

April 18, 1985

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

Dear Sir:

Reportable Occurrence Report #85-030-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

H. J. Diederich 4/24/85
G. J. Diederich
Station Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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11