



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

July 12, 1991

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Dear Sir:

Licensee Event Report #91-008-00, Docket #050-373 is being
submitted to your office in accordance with
10CFR50.73(a)(2)(iv).

G. J. Diederich
Station Manager
LaSalle County Station

GJD/JD//mkl

Enclosure

xc: Nuclear Licensing Administrator
NRC Resident Inspector
NRC Region III Administrator
INPO - Records Center
IDNS Resident Inspector

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LICENSEE EVENT REPORT (LER)															Form Rev 2.0		
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 Auto Start Of Control Room Ventilation Emergency Makeup 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 Number(s)			
0 6 1 3 9 1 9 1					0 0 8		0 0	0 7 1 2 9 1				LaSalle Unit 2			0 5 0 0 0 3 7 4		
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)														
POWER LEVEL (10)			1		20.402(b)		20.405(c)		<input checked="" type="checkbox"/> 50.73(a)(2)(iv)		73.71(b)						
					20.405(a)(1)(i)		50.36(c)(1)		<input type="checkbox"/> 50.73(a)(2)(v)		73.71(c)						
					20.405(a)(1)(ii)		50.36(c)(2)		<input type="checkbox"/> 50.73(a)(2)(vii)		Other (Specify						
					20.405(a)(1)(iii)		50.73(a)(2)(i)		<input type="checkbox"/> 50.73(a)(2)(viii)(A)		in Abstract						
					20.405(a)(1)(iv)		50.73(a)(2)(ii)		<input type="checkbox"/> 50.73(a)(2)(viii)(B)		below and in						
					20.405(a)(1)(v)		50.73(a)(2)(iii)		<input type="checkbox"/> 50.73(a)(2)(x)		Text)						
LICENSEE CONTACT FOR THIS LER (12)																	
Name Joseph Sparacino, Technical Staff Engineer, Extension 2421										TELEPHONE NUMBER AREA CODE 8 1 5 3 5 7 - 6 7 6 1							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																	
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS			CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS						
X	V	I		N													
SUPPLEMENTAL REPORT EXPECTED (14)												Expected Submission Date (15)					
Yes (If yes, complete EXPECTED SUBMISSION DATE)												X, NO					
ABSTRACT (Limit to 1400 spaces, i.e., approximate fifteen single-space typewritten lines) (16)																	

At 0045 hours on June 13, 1991, with Unit 1 in Operational Condition 1 (un) at 99 percent power, the "A" Control Room Ventilation Emergency Make-up Train auto started on a spurious trip from the Control Room Air Intake Radiation Monitor (1D18-K751B). No work was in progress at the time of the event which could be identified as a potential source of the high radiation signal. The Radiation Monitor was immediately reset, proper damper position was verified, and Control Room Ventilation returned to normal.

The cause of this event is unknown, but it is believed that random noise, of an unknown origin, in the electronics may have induced the spurious trip.

The consequences of this event were minimal since the auto starting of the Control Room Ventilation Emergency Make-up train was the correct Emergency Safety Feature (ESF) response for this situation.

To correct this problem a Modification will be performed to change to the Control Room Ventilation Process Radiation Monitoring logic to initiate when 2 out of the 4 detectors have High Radiation signals, instead of the present 1 out of 4 logic.

This event is being reported pursuant to requirements of 10CFR50.73(a)(2)(iv) due to the actuation of an Engineered Safety Feature system.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)		
		Year	///	Sequential Number	///	Revision Number				
LaSalle County Station Unit 1	0 5 0 0 0 3 7 3	9 1	-	0 0 8	-	0 0	0	0	2	OF 0 3

TEXT Energy Industry Identification System (EIIS) codes are identified in the text as [XX]

PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

A. CONDITION PRIOR TO EVENT

Unit(s): 1/2 Event Date: 6/13/91 Event Time: 0045 Hours

Reactor Mode(s): 1/1 Mode(s) Name: Run/Run Power Level(s): 95%/99%

B. DESCRIPTION OF EVENT

On June 13, 1991 at approximately 0045 hours with Unit 1 in Operational Condition 1 (RUN) at 99 percent power, the "A" Control Room Ventilation (VC) [VI]/Auxiliary Electric Equipment Room Ventilation (VE) [VI] Emergency Make-up Fan (OVC03CFT) auto started on a spurious trip signal from the Control Room Air Intake Radiation Monitor (PR) [IL] 1D18-K751B. No work was in progress at the time of the event which could be identified as a potential source of the high radiation signal. The Radiation Monitor was immediately reset and proper VC damper repositioning was verified per LaSalle Operating Abnormal Procedure LOA-VC-01 "Operation Of Control Room HVAC During Hi Radiation, Smoke, Or Ammonia Detection".

C. APPARENT CAUSE OF EVENT

The apparent cause of this event is unknown, but it is believed that random noise, of an unknown origin, in the electronics may have induced the spurious trip. The Instrument Maintenance Department did not investigate the electronics of the Radiation Monitor for fear of doing damage to the sensitive equipment. Also, the Radiation readings on the chart recorder indicate that there was no permanent damage or malfunction of the Radiation Monitor.

D. SAFETY ANALYSIS OF EVENT

The safety consequences of this event were minimal because the system worked as designed according to the High Radiation indication. During the event, the other three of four radiation monitors for the "A" VC system were operational, meeting the operational requirements of Technical Specification 3.3.7.1.

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LaSalle County Station	0 5 0 0 0 3 7 3	9	1	-	0	0	8	-	0	0
TEXT	Energy Industry Identification System (EIIS) codes are identified in the text as [XX]									

E. CORRECTIVE ACTIONS

The corrective action for this event is to prevent a false Emergency Safety Feature (ESF) actuation from occurring. This is going to be accomplished by a modification (M01-0-88-003) which will change the logic of the actuation to initiate on High Radiation indications of two out of the four Process Radiation Monitors. Presently the actuation occurs when only one out of the four Process Radiation Monitors indicates a High Radiation signal. This modification is scheduled to start in late 1992. The completion of this modification will be tracked by Action Item Record (AIR) 373-180-91-07301.

F. PREVIOUS EVENTS

LER Number	Title
373/88-016-00	Auto Start of Control Room Ventilation EMU train due to spurious spike of the intake Rad Monitor.
373/87-034-00	Auto Start of "A" VC EMU on spurious RAD Spike.
373/86-025-00	Spurious Trip of Control Room Ventilation Hi Radiation Monitor.
373/86-021-00	Control Room Ventilation Actuation due to Spurious Rad Monitor Trip.

G. COMPONENT FAILURE DATA

There were no component failures in this event.