

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 3
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TITLE (4)  
Uncontrolled High Radiation Area

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)												
									NA			0 5 0 0 0												
1	0	2	5	8	4	8	4	0	0	7	0	0	0	1	1	1	9	8	4	0	5	0	0	0

OPERATING MODE (9) 4

POWER LEVEL (10) 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)

20.402(b)	20.406(a)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.73(a)(1)	50.73(a)(2)(iv)	73.71(a)
20.405(a)(1)(ii)	50.73(a)(2)	50.73(a)(2)(v)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Joseph Lewis, extension 237	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	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
A	Z Z	Z 9 9 9	Z 9 9 9	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On 10/24/84, a survey was performed for a specific work location on elevation 694' of the Unit 1 B Residual Heat Removal (RHR) room. The results of this survey indicated a working dose rate for the job of 45 mR/hr. A pipe 8 feet above the floor was also indicated on the survey form. The dose rate at contact with this pipe was 250 MR/hr. No whole body dose rate was indicated on this survey form. Based upon review of the above survey, Radiation Chemistry personnel were dispatched to perform surveys on the morning of 10/25/84. Based upon verification of a pipe on 673' elevation, near the B RHR suction with a dose rate of 170 MR/hr at 1 foot, all three elevations of both RHR rooms and both raceway elevations of the Unit 1 Reactor Building were immediately locked, posted, and controlled as High Radiation Areas.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

TEXT (If more space is required, use additional NRC Form 305A's) (17)

I. EVENT DESCRIPTION

On 10/4/84, the 1A and 1B RHR rooms and both raceway elevations of the Unit 1 Reactor Building were posted and controlled as High Radiation Areas. High Radiation Area controls were in effect because the 1A RHR shutdown cooling suction line and a Reactor Building floor drain header, both located in the raceway area, had readings in excess of 100 mR/hr at one foot.

On 10/5/84, the 1A RHR pump was started and the shutdown cooling line was flushed. The dose rate at the shutdown cooling line was reduced to 50 mR/hr at one foot.

On 10/20/84, a contract vendor completed a cleaning process which reduced the dose rate at the Reactor Building floor drain header to 25 mR/hr at one foot. Based upon the dose rates at the floor drain header, the area was downgraded to a Radiation Area at 1738 on 10/20/84.

A survey was performed in the 1B RHR room at 1530 on 10/24/84. The survey indicated a pipe 8 feet above the 694' elevation floor was reading 250 mR/hr at contact. Also on 10/24/84, a Resident NRC Inspector reported that he thought dose rates were approaching High Radiation Area levels near RHR piping in the Unit 1 Reactor Building. Based upon a review of the survey and the NRC Inspector's concern, Radiation Chemistry personnel were dispatched to conduct surveys in the B RHR room on the morning of 10/25/84.

When the Radiation Chemistry personnel reached the 694' elevation of the B RHR room, they met the NRC Inspector who was preparing to exit the area. The Inspector stated that a pipe existed on the 673' elevation with a dose rate of 170 mR/hr at one foot. Radiation Chemistry personnel confirmed the dose rate was at 170 mR/hr at one foot and that a High Radiation Area existed. Contrary to Technical Specification 6.1.1, the room was unsecured and unattended.

A routine surveillance requiring a dose rate survey of the lower elevations of Unit 1, including the area in question, was scheduled during the week of 10/22/84 but had not yet been completed.

At the time of the occurrence, Unit 1 had been in Cold Shutdown for approximately three weeks. Both RHR systems had operated in the Shutdown Cooling Mode during that time.

II. CAUSE

A complete survey of the Unit 1 RHR rooms and Reactor Building raceway elevations was not performed prior to removing High Radiation Area Controls at 1738 on 10/20/84. Only the piping that resulted in the High Radiation Area posting and control on 10/4/84 was surveyed.

The routine survey surveillance scheduled for 10/22/84 was not performed on that date but was rescheduled to be completed by Friday, 10/26/84.

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III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

Review of the dosimetry data for the period in question indicates that no unauthorized radiation exposure greater than the 50 mrem administrative limit occurred.

IV. CORRECTIVE ACTIONS

Upon discovery of the high dose rate at the 1B RHR suction line, both Unit 1 RHR rooms and both raceway elevations of the Unit 1 Reactor Building were secured and posted as High Radiation Areas. Surveys were performed in Unit 1 during the afternoon and evening on 10/25/84 to determine if any areas outside the newly secured High Radiation Area contained whole body dose rates in excess of 100 mR/hr. The survey included RHR system and other Emergency Core Cooling system piping and Reactor Water Cleanup piping. No additional areas requiring High Radiation Area controls were found.

This event was discussed with the entire Radiation Chemistry group in two sessions held in the afternoon and evening of 10/25/84.

A training memo originally issued on 3/22/83 will be revised to include systems affected by unit shutdown. The memo will be then reissued to all Radiation Chemistry personnel and Station Department Heads. (AIR 1-84-67172)

Routine survey forms are being revised to include the purpose of the survey on the survey form. This will enable Radiation Chemistry Supervision to better review survey data to determine completeness. (AIR 1-84-59922)

V. PREVIOUS OCCURRENCES

Three previous events of a similar nature have been documented as follows:

- LER 373/84-025
- LER 373/84-042
- LER 374/84-034

VI. NAME AND TELEPHONE NUMBER OF PREPARER

J. G. Lewis, 815/357-6761, extension 237.



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

November 19, 1984

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

Dear Sir:

Reportable Occurrence Report #84-070-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

G. J. Diederich  
Superintendent  
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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