

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) LaSalle County Station Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 7 4										PAGE (3) 1 OF 0 3																																
TITLE (4) Reactor Water Cleanup High Differential Temperature and Differential Flow Isolations																																																				
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 NA													DOCKET NUMBER(S) 0 5 0 0 0												
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OPERATING MODE (9) 1										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																																										
POWER LEVEL (10) 9 6 5										20.402(b)										20.408(a)										<input checked="" type="checkbox"/> 80.73(a)(2)(iv)										73.71(b)												
										20.408(a)(1)(i)										80.38(a)(1)										80.73(a)(2)(v)										73.71(c)												
										20.408(a)(1)(ii)										80.38(a)(2)										80.73(a)(2)(vi)										OTHER (Specify in Abstract below and in Text, NRC Form 386A)												
										20.408(a)(1)(iii)										80.73(a)(2)(i)										80.73(a)(2)(vii)(A)																						
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LICENSEE CONTACT FOR THIS LER (12)																																																				
NAME JoAnn M. Shields, extension 571																				TELEPHONE NUMBER																																
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																				
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SUPPLEMENTAL REPORT EXPECTED (14)																				EXPECTED SUBMISSION DATE (15)										MONTH DAY YEAR																						
<input type="checkbox"/> 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 1340 on November 12, 1984, the Reactor Water Cleanup system (CE) isolated on high differential temperature (JM). The Reactor Building ventilation system had been shut down prior to the event. The lack of circulating air was the cause of the isolation. While attempting to get the system back in operation, the system isolated twice more on differential flow (JM). The system was restored to service at 0025 on November 13, 1984 with no further difficulties.

The system isolated according to design. Safe plant operations were maintained at all times.

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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 2	0500037484	—	073	—	00	02	OF 03

TEXT (If more space is required, use additional NRC Form 386A's) (17)

I. EVENT DESCRIPTION

On November 12, 1984, at 1340, the Unit 2 Reactor Water Cleanup system (CE, RWCU) isolated on high differential temperature (JM, LD) in the pump rooms. The reactor was at 65% power in Operating Condition 1. The Reactor Building Ventilation system (VA, VR) was shut down at 1325 for the repair of 2VR04YA, the Reactor Building ventilation "2A" supply isolation damper. With the Reactor Building Ventilation system shut down, the reduced air flow and circulation was not sufficient to remove the heat generated in the pump rooms. As heat buildup continued, the 13°F differential temperature setpoint was reached, and the system isolated.

The system was restarted, and isolated at 1501 on high differential flow (JM). These isolations are not unusual when returning the system to service following an isolation. At 1555, the "A" and "B" Reactor Water Cleanup pumps were started. At 1900, the Reactor Water Cleanup system was again shut down, prior to shutting down the VR system.

At 2305, the ventilation system was returned to operation. When the RWCU system was started up, it isolated at 2355 on differential flow. Such isolations are not infrequent when repressurizing the system after a shutdown. At 0025, the system was restarted, and the "B" and "C" filters were successfully placed in service. No further difficulties were encountered. After each of the three isolations, NRC Red Phone Notification was made in accordance with 10CFR50.72.

II. CAUSE

Loss of Reactor Building ventilation reduced air flow in the pump rooms, causing heat buildup which eventually isolated the system on differential temperature.

The two subsequent isolations were the result of trying to start the system from a shutdown condition.

The Reactor Building ventilation damper required repair due to one-half of the damper (butterfly damper) not properly opening.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The isolations occurred in accordance with system design. After each isolation, the system was inspected for leaks, and none were found. The Reactor Building ventilation damper problem did not affect the ability of the damper to isolate the Secondary Containment.

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TEXT (If more space is required, use additional NRC Form 308A's) (17)

IV. CORRECTIVE ACTION

The original Leak Detection system for the RWCU pump rooms was designed to detect steam leaks at reactor vessel rated temperatures. However, a system change made during initial construction directed water through the heat exchangers prior to entering the pump room. As the water temperature is now far below vessel temperature, the leak detection temperature instruments are ineffective. A Technical Specification change has been requested to remove these instruments. This will eliminate RWCU isolation due to loss of ventilation, and the resultant trips which occur when trying to restart the system.

The system vendor, General Electric, is investigating the Differential Flow setpoint to determine the basis, and evaluate the effect of raising the setpoint. (AIR 01-84-67137)

V. PREVIOUS OCCURRENCES

RWCU isolations due to ventilation problems are described in the following LER's:

374/84-006-00
374/84-007-00
374/84-010-00
374-84-031-00
374-84-058-00

RWCU isolations due to differential flow difficulties are described in the following LER's:

373/84-030-00
373/84-033-00
373/84-040-00
373/84-055-00
374/84-029-00
374-84-041-00
374/84-044-00
374/84-054-00
374/84-057-00
374/84-064/00

VI. NAME AND TELEPHONE NUMBER OF PREPARER

JoAnn Shields, 815/357-6761, extension 571.



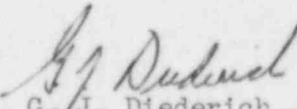
Commonwealth Edison
LaSalle County Nuclear Station
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Marseilles, Illinois 61341
Telephone 815/357-6761

December 3, 1984

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

Dear Sir:

Reportable Occurrence Report #84-073-00, Docket #050-374 is being submitted to your office in accordance with 10CFR 50.73.


G. J. Diederich *2/10/84*
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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