

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Station Unit 2

DOCKET NUMBER (2)
0 5 0 0 0 3 1 7 4

PAGE(S)
1 OF 0 3

TITLE (4)
Reactor Water Cleanup High Differential Temperature Isolation

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)
08	26	84	84	0518	00	09	19	84	NA		0 5 0 0 0
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THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9) 4	20.402(b)	20.408(a)	<input checked="" type="checkbox"/>	80.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 1 0 0	20.408(a)(1)(i)	80.73(a)(1)		80.73(a)(2)(v)	73.71(c)
	20.408(a)(1)(ii)	80.73(a)(2)		80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
	20.408(a)(1)(iii)	80.73(a)(2)(i)		80.73(a)(2)(vii)(A)	
	20.408(a)(1)(iv)	80.73(a)(2)(ii)		80.73(a)(2)(vii)(B)	
	20.408(a)(1)(v)	80.73(a)(2)(iii)		80.73(a)(2)(viii)	
	20.408(a)(1)(vi)	80.73(a)(2)(iv)		80.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Charles K. Sprunger, extension 779

TELEPHONE NUMBER: 815 315 7116

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	JM	Z191919	Z191919	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1000 spaces, i.e., do not exceed fifteen single-space typewritten lines) (16)

On August 26, 1984, at 0830 hours with Unit 2 at 0% power in Mode 4, an isolation of Reactor Water Cleanup occurred due to High Differential Temperature in the "A" pump room. At the time of this isolation the Reactor Building ventilation was shut down to facilitate repairs to the system.

The isolation resulted from a lack of air flow through the room which is required for the present Leak Detection scheme to function. A Technical Specification change will be requested to remove these instruments.

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	YEAR	SEQUENTIAL NUMBER		REVISION NUMBER								
	84	0518		010		02	OF	03				

TEXT (if more space is required, use additional NRC Form 388A's) (17)

I. EVENT DESCRIPTION

On August 26, 1984, at 0830 hours, the Unit 2 Reactor Water Cleanup (RWCU, CE) system High Differential Air Temperature (JM) alarm and trip was received for the "A" RWCU pump room. Valve 2G33-F001 closed as designed, isolating the RWCU system. The Licensed Operator (NSO) acknowledged the alarm and checked the differential air temperature for the room on the unit indicator. At this time the differential temperature between the inlet and outlet air to the room was 9°F. The NSO sent an Operator to check the room for leaks. No leaks were found. NRC notification of the event was made at 0905 hours. When it was apparent the system was not leaking, the isolation was cleared and the "A" RWCU pump and filter demineralizer were placed back on line.

II. CAUSE

At the time of the isolation, Unit 2 was at 0% in Mode 4. The Unit 2 Reactor Building Ventilation (VA) supply and exhaust fans were shut down at 0405 hours on the same day to facilitate repairs to fan 2VR02CB. This caused the air in the "A" RWCU pump room to stagnate. The air near the pump became warmer than the air next to the door of the room. The exhaust air temperature element located above the pump sensed a higher temperature than the supply air temperature located near the door. After approximately four hours of pump operation with no ventilation in operation, the differential temperature exceeded the setpoint of 13°F and the system isolated. When the NSO checked the differential temperature indicator in the Control Room the pump had been off long enough for the differential temperature to fall to 9°F.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The RWCU system shut down and placed the plant in a safe condition after the isolation signal was received. No leaks in the system were found. The loss of the RWCU system did not unduly affect the operation of the unit.

IV. CORRECTIVE ACTIONS

The original Leak Detection system for the RWCU pump rooms was designed to detect leaking water and steam at temperatures near those of reactor water in the vessel. The system was modified prior to initial criticality to allow reactor water to pass through several heat exchangers before reaching the RWCU pumps. The water temperature is now less than 130°F. The present temperature Leak Detection system for the pump rooms is ineffective in detecting leaks due to the cooler water temperatures. The setpoints for these instruments are very near normal Operating Conditions. A Technical Specification change has been requested to remove these instruments. This will eliminate spurious RWCU pump room isolations due to the loss of ventilation.

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TEXT if more space is required, use additional NRC Form 388A (17)

V. PREVIOUS EVENTS

Spurious Unit 2 RWCU system isolations due to ventilation problems have occurred previously as described in LER's 374/84-006-00, 84-007-00, and 84-010-00. A spurious Unit 1 system isolation due to ventilation problems has occurred previously as described in LER 373/84-031-00.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Charles K. Sprunger, 815/357-6761, extension 779.



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 200
Marseilles, Illinois 61341
Telephone 815/357-6761

September 19, 1984

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

Dear Sir:

Reportable Occurrence Report #84-058-00, Docket #050-374 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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