

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) LaSalle County Station Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 7 4 1 OF 0 3										PAGE (3) 1 OF 0 3							
TITLE (4) Reactor Water Cleanup High 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									
0 8		1 8		8 4		8 4		0 5		4		0 0		0 9		1 4		8 4		NA							
OPERATING MODE (9)		3		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																							
POWER LEVEL (10)		0 0 0		20.402(b)						20.406(c)						X 80.73(a)(2)(iv)						73.71(b)					
				20.406(a)(1)(i)						80.36(a)(1)						20.73(a)(2)(v)						73.71(a)					
				20.406(a)(1)(ii)						80.36(a)(2)						80.73(a)(2)(vi)						OTHER (Specify in Abstract below and in Text, NRC Form 365A)					
				20.406(a)(1)(iii)						80.73(a)(2)(i)						80.73(a)(2)(viii)(A)											
				20.406(a)(1)(iv)						80.73(a)(2)(ii)						80.73(a)(2)(viii)(B)											
				20.406(a)(1)(v)						80.73(a)(2)(iii)						80.73(a)(2)(ix)											
LICENSEE CONTACT FOR THIS LER (12)																											
NAME Charles K. Sprunger, extension 779										TELEPHONE NUMBER AREA CODE 8 1 5 3 5 7 1 6 7 6 1 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																	
X	J M	F I S R	3 6 9	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., approximately fifteen single-space typewritten lines) (16)

On August 18, 1984 at 2101 hours and at 2151 hours, with Unit 2 at 0% power in Hot Shut-down, isolations of Reactor Water Cleanup (RWCU) occurred due to High Differential Flow. At the time of the isolations RWCU valve manipulations were being performed.

On the same day at 2241 hours under the same plant conditions, a third RWCU isolation occurred due to High Differential Flow. At the time of this isolation Feedwater valve AB21-FO65A had just been opened.

These isolations were the result of changes in reactor water pressure and flow in the RWCU system.

8409270694 840914  
PDR ADDCK 05000374  
S PDR

IE22  
11

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
LaSalle County Station Unit 2	0 5 0 0 0 3 7 4	8 4	— 0 5 4	— 0 0	0 2	OF 0 3

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

I. EVENT DESCRIPTION

On August 18, 1984, at 2101 hours, the Unit 2 Reactor Water Cleanup (RWCU, CE) system isolated from a High Differential Flow (JM) signal. The RWCU areas in the plant were checked for leaks of which none of significance were found. The isolation was determined to be the result of RWCU valve manipulations to reduce flow in the system. The isolation was cleared and RWCU pump A was started at 2105 hours.

A second RWCU system High Differential Flow isolation occurred at 2151 hours. Again no significant leaks were found and RWCU valve manipulations were determined to be the cause of the isolation. The isolation was cleared and RWCU pump A was restarted at 2154 hours.

A third RWCU system High Differential Flow isolation occurred at 2241 hours. Again no significant leaks were found. Feedwater valve manipulations were determined to be the cause of the isolation.

II. CAUSE

At the time of the three isolations on August 18, 1984, Unit 2 was in Hot Shutdown at 0% power. The Reactor Pressure Vessel was being depressurized for Cold Shutdown. Moderator temperature was less than 400°F.

The RWCU system was lined up per LaSalle Special Procedure LLP-84-23, Alternate Shutdown Cooling Mode, to facilitate the depressurization.

Shortly after RWCU valve 2G33-F042 was throttled to reduce total flow in the system, the first two isolations occurred.

The third isolation occurred after feedwater valve 2B21-F065A was opened to increase vessel inventory so that Reactor Water could be used to warm up the "A" Residual Heat Removal (BO) loop.

The valve manipulations that occurred prior to these isolations caused reactor water pressure and flow within the RWCU system to deviate from the normal steady state conditions the Differential Flow Logic is calibrated to monitor. These changes in pressure and flow were present for more than 45 seconds (the isolation time delay to allow for transient conditions) and the RWCU system isolated as designed.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

In all three instances the RWCU system shut down and placed the plant in a safe condition. The loss of the RWCU system did not unduly affect the operation of the unit.

## 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	05000374	84	054	00	03	OF	03

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

IV. CORRECTIVE ACTIONS

On September 5, 1984, a meeting was held to review the recurring problems which have caused frequent isolations of the RWCU systems at LaSalle Station Unit 1 and 2. A corrective action as a result of this meeting that applies to this event (LER 84-054-00) is for the appropriate General Electric representative to review the design basis for the present differential flow isolation setpoint and determine if it can be increased. An increase of the setpoint would aid in decreasing the number of isolations that occur due to RWCU system valve manipulations when the moderator temperature is between 200°F and 400°F.

V. PREVIOUS EVENTS

There have been previous events of this type on both Unit 1 and 2. See LER's 373/84-030, 84-033, 84-040, 374/84-029 84-041 and 84-044.

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 220  
Marseilles, Illinois 61341  
Telephone 815/357-6761

September 14, 1984

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

Dear Sir:

Reportable Occurrence Report #84-054-00, Docket #050-374 is being submitted to your office in accordance with 10CFR 50.73.

*C E Sargent*

*for*  
G. J. Diederich  
Superintendent  
LaSalle County Station

GJD/MLD/kg

Enclosure

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

IE22  
11