NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
LaSalle County Station Unit 2	0 5 0 0 0 3 7 4	1 OF

TITLE (4)
Reactor Water Cleanup High Differential Flow 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)
										NA	0 5 0 0 0
0 7	0 6	8 4	8 4	0 3 6	0 0		0 7	3 0	8 4	NA	0 5 0 0 0

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)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Charles K. Sprunger, extension 779	AREA CODE 8 1 5 3 5 7 - 1 6 7 6

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
X	J M	S H V	H 1 9 5	N							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

On July 6, 1984, at 0120 hours, the Unit 2 Reactor Water Cleanup system isolated on High Differential Flow. At the time of this isolation the "B" Reactor Water Cleanup filter demineralizer had been precoated and was being placed on line. Leakage through normally isolated valves in the system caused the isolation and the system shut down as designed.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

I. EVENT DESCRIPTION

On July 6, 1984, at 0120 hours, the Unit 2 Reactor Water Cleanup system (CE, RWCU) High Differential Flow (JM) alarm was received in the Control Room. The Licensed Operator (NSO) acknowledged the alarm and observed that the system isolated properly. The NSO sent an Operator to the RWCU areas in the plant to check for leaks. No leakage to the atmosphere was found. The NSO informed the Shift Control Room Engineer of the event. NRC notification was then made.

II. CAUSE

At the time of the isolation on July 6, 1984, the unit was in Operating Mode 3 at 0% power. The "B" RWCU filter demineralizer had just been precoated and the Operators were in the process of unisolating the filter demineralizer so it could be placed on line.

After the isolation occurred, the Operator sent to investigate for leaks found leakage past the valve seat for valves 2G33-Z001-37B and 2G33-Z001-38B. This allowed abnormal water flow to the chemical cleaning drain. The differential flow logic that isolated the system accounts for all flow into and out of the RWCU system under normal conditions. However, the abnormal flow path was not accounted for and the system isolated.

Initially it was suspected that valve 2G33-Z001-06B was leaking by its valve seat. This could not be confirmed and it is now believed that it was not actually leaking.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

Following the isolation 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.

IV. CORRECTIVE ACTIONS

The Operator sent to investigate for leaks turned the handwheel for valve 2G33-Z001-37B to make sure it was completely closed. He found the valve to move slightly in the closed direction and determined it had been leaking by. Valve 2G33-Z001-38B was known to leak and Work Request L37423 had been written on 6/4/83 to have the valve repaired (AIR 1-84-67113). Later that day, with valve 2G33-Z001-37B completely closed and the abnormal flow path to the chemical cleaning drain isolated, the "A" and "B" RWCU filters were placed on line at 0240 hours.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

V. PREVIOUS OCCURRENCES

LER 373/84-043-00.

Vi. NAME AND PHONE 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

July 30, 1984

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

Dear Sir:

Reportable Occurrence Report #84-036-00, Docket #050-374 is being submitted to your office in accordance with 10 CFR 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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