

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 3		
TITLE (4) Reactor Water Cleanup 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 NAME(S)				DOCKET NUMBER(S)			
0 9	0 2	8 4	8 4	0 6 6	0 0	0 9	2 8	8 4	NA				0 5 0 0 0			
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																
OPERATING MODE (9)		20.402(b) <input type="checkbox"/> 20.406(a) <input checked="" type="checkbox"/> 20.73(a)(2)(iv) <input type="checkbox"/> 72.71(b) <input type="checkbox"/>														
POWER LEVEL (10)		20.406(a)(1)(i) <input type="checkbox"/> 20.73(a)(2)(v) <input type="checkbox"/> 72.71(c) <input type="checkbox"/>														
0 1 8 1 0		20.406(a)(1)(ii) <input type="checkbox"/> 20.73(a)(2)(vi) <input type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 200A) <input type="checkbox"/>														
		20.406(a)(1)(iii) <input type="checkbox"/> 20.73(a)(2)(vii)(A) <input type="checkbox"/>														
		20.406(a)(1)(iv) <input type="checkbox"/> 20.73(a)(2)(viii)(B) <input type="checkbox"/>														
		20.406(a)(1)(v) <input type="checkbox"/> 20.73(a)(2)(ix) <input type="checkbox"/>														
LICENSEE CONTACT FOR THIS LER (12)																
NAME Charles K. Sprunger										TELEPHONE NUMBER AREA CODE 8 1 5 3 5 1 7 - 1 6 1 7 1 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							
D	C/E	Z1Z1Z1Z	Z1Z1Z1Z	N												
SUPPLEMENTAL REPORT EXPECTED (14)																
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR

ABSTRACT (Limit to 14"2 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 2, 1984, at 1022 hours, the Unit 2 Reactor Water Cleanup system (RWCU) isolated on High Differential Flow. At the time of the isolation the Operators were in the process of filling and venting a RWCU heat exchanger that had been isolated and drained for maintenance. The procedure for filling and venting a RWCU Heat Exchanger and returning it to service when the system is pressurized has been revised.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) LaSalle County Station Unit 2	DOCKET NUMBER (2) 05000374	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	066	00	02	OF	03

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

I. EVENT DESCRIPTION

On September 2, 1984, at 1022 hours with the reactor in Mode 1 at 80% power, Unit 2 Reactor Water Cleanup system (CE) isolated on High Differential Flow (JM). Isolation valves 2G33-F001 and 2G33-F004 closed as designed placing the plant in a safe condition.

The greater than normal differential flow was determined to be the result of an inadequate fill and vent on the "B" RWCU heat exchanger prior to placing it on line. The system was checked for other leaks of which none were found. The system was then refilled, unisolated and restarted at 1120 hours.

II. CAUSE

Prior to the isolation the "B" RWCU heat exchanger loop was out of service for repairs to safety relief valve 2G33-F340B. After the valve had been repaired three Operators were sent out to fill and vent the "B" heat exchanger loop in preparation for operation. The Operator, as instructed, filled the heat exchanger loop with clean condensate (KC). This was done by connecting a hose from the clean condensate system to sight glass flange 2RE26MB which was valved into the heat exchanger loop by valves 2G33-F018B and 2G33-F019B.

When the Operators determined the system to be properly filled and vented, valves 2G33-F018B and 2G33-F019B were closed isolating the hose. Then an Operator began to lift the out-of-service on the system and opened the inlet and outlet valves pressurizing the heat exchangers. At this time the Operator heard a cavitation type sound and decided there was air trapped in the system. He closed off the inlet and outlet valves and unisolated the hose so more water could be added. However, the heat exchanger loop was now at reactor vessel pressure and the hose ruptured. The probable cause of the differential flow signal was the cavitation of the RWCU pumps resulting from both air in the heat exchangers when they were valved and high flow into the heat exchangers to complete filling.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The RWCU system shut down and placed the plant in a safe condition after the isolation. The leakage from the damaged hose was contained within the secondary containment boundaries. The isolation system functioned as designed and the loss of the RWCU system did not unduly affect the operation of the unit.

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LaSalle County Station Unit 2	05000374	84	066	00	03	OF 03

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

IV. CORRECTIVE ACTION

The Operators were in the process of filling and venting a RWCU heat exchanger set that had been manually isolated and drained for maintenance when the system isolation occurred. Clean condensate is used to fill and vent the system in this case because using reactor water at rated condition would cause differential flow isolations. LaSalle Operating Procedure LOP-RT-01, RWCU System Filling and Venting, has been revised to include the proper method of using clean condensate to fill and vent with. This will help to eliminate this problem in the future.

V. PREVIOUS EVENTS

One other occurrence related to problems with Operators filling and venting heat exchangers was described in LER 373/84-032-00.

VI. NAME AND PHONE NUMBER OF PREPARER

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



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September 28, 1984

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

Dear Sir:

Reportable Occurrence Report #84-066-00, 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

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