LICENSEE EVENT REPORT (LER)							AP	NUCLEAR REQUIATORY COMMISSION APPROVED ONS NO. 3180-0104 EXPIRES: 8/31/06						
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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 REF	PORT (LER) TEXT CONTINU	OITAI	N	U.S	APP		REGULATORY COMMISSION ED OMB NO 3150-0104 8/31/85					
PACILITY NAME (1)	DOCKET NUMBER (2)		LI	ER NUMBER (6)			PAGE (3)					
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# 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.

NRC form 306A (9-83)	LICENSEE E	VENT RE	PORT (LER) TEXT CONTINU	OITAL	N	U.S.	APPR		GULATORY COMMISSION OMB NO. 3150-0104 31/85						
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## IV. CORRECTIVE ACTION

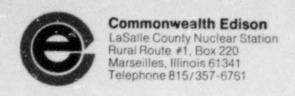
The Operators were in the process of filling and venting a RWCU heat exchanger set that had been manually isolated and drained for maintenance when the system isolation occurred. Clean condensate is used to fill and vent the system in this case because using reactor water at rated condition would cause differential flow isolations. IaSalle Operating Procedure LOP-RT-O1, 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 climinate 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.



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.

CE Sargent

G. J. Diederich

Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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