

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): LaSalle County Station Unit 1
DOCKET NUMBER (2): 050003713
PAGE (3): 1 OF 03

TITLE (4): RWCU Isolation on High Differential Flow

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)
07	27	84	84	046	00	08	23	84			05000
											05000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9): 1	20.402(b)	<input checked="" type="checkbox"/>	20.406(c)	<input type="checkbox"/>	80.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)
POWER LEVEL (10): 0.96	20.406(a)(1)(i)	<input type="checkbox"/>	80.38(a)(1)	<input type="checkbox"/>	80.73(a)(2)(v)	<input type="checkbox"/>	73.71(a)
	20.406(a)(1)(ii)	<input type="checkbox"/>	80.38(a)(2)	<input type="checkbox"/>	80.73(a)(2)(vi)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.406(a)(1)(iii)	<input type="checkbox"/>	80.73(a)(2)(i)	<input type="checkbox"/>	80.73(a)(2)(vii)(A)	<input type="checkbox"/>	
	20.406(a)(1)(iv)	<input type="checkbox"/>	80.73(a)(2)(ii)	<input type="checkbox"/>	80.73(a)(2)(vii)(B)	<input type="checkbox"/>	
	20.406(a)(1)(v)	<input type="checkbox"/>	80.73(a)(2)(iii)	<input type="checkbox"/>	80.73(a)(2)(viii)	<input type="checkbox"/>	

LICENSEE CONTACT FOR THIS LER (12): Daniel R. Smythe, extension 292
TELEPHONE NUMBER: 815 357-1676

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
A	C/E	Z Z Z Z Z Z Z Z		N					

SUPPLEMENTAL REPORT EXPECTED (14): YES (If yes, complete EXPECTED SUBMISSION DATE) NO
EXPECTED SUBMISSION DATE (15):

ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single space typewritten lines) (18):
On 7/27/84, at 2140 hours, with Unit 1 operating in Mode 1 at 96% power, the Reactor Water Cleanup system (RWCU) isolated on high differential flow. The isolation occurred while de-isolating the "C" Filter Demineralizer and was caused by a partial loss of system flow through open filter drain valves. The partial loss of flow was from the cold side of the RWCU system and therefore created high system temperatures due to reduced cooling at the regenerative heat exchangers. This higher system temperature caused a system isolation (NON-ESF) at 2210 hours to protect the Filter/Demineralizer resin beds. After cooling the RWCU system using Cycled Condensate, a system isolation occurred at 0441 hours on 7/28/84, while placing system back in service and was due to high differential flow for unknown reasons. The RWCU system was then successfully placed in service at 0450 hours on 7/28/84. This event will be reviewed by the Operating and Mechanical Maintenance Departments.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	046	00	02	OF	03

TEXT (if more space is required, use additional NRC Form 288A's) (17)

I. EVENT DESCRIPTION

On 7/27/84, at 2140 hours, the Reactor Water Cleanup system (CE, RWCU) isolated on high differential flow while the "C" Filter/Demineralizer was being de-isolated upon clearing Out of Service 1-617-84. When attempting to place the system back in service, after checking for leaks, system isolations (JM) occurred at 2150 and 2200 hours due to high differential flow.

Open Filter/Demineralizer drain valves were closed and at 2210 the RWCU system isolated on high Filter/Demineralizer inlet temperature (NON-ESF) when attempting to place the RWCU system back in service.

The RWCU system was then cooled down by allowing Cycled Condensate (SD, CY) to flow through the system. At 0441 hours on 7/28/84, after system temperature returned to normal, the RWCU system again isolated on high differential flow when being placed in service. The RWCU system was then successfully placed in service at 0450 hours.

II. CAUSE

The initial RWCU system isolations on high differential flow were caused by open Filter/Demineralizer drain valves. After three successive RWCU system isolations on high differential flow, an investigation of system valve lineup was performed. This inspection revealed that two Filter/Demineralizer drain valves (1G33-Z001-42C and 43C) to the phase separator tank were cracked open. These valves may have been open to facilitate draining of "C" Filter/Demineralizer prior to repacking filter outlet valve 1G33-Z001-66C under Work Request L38941 and Out of Service Number 1-617-84.

The RWCU system isolation due to Filter/Demineralizer high inlet temperature was caused by a partial loss of water from the cold side of the system that is used to cool incoming water at the regenerative heat exchangers. The partial loss of system flow was through the two open Filter/Demineralizer drain valves.

The final RWCU system isolation on high differential flow after system temperature had been returned to normal is unknown.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The events were not significant; the RWCU system isolated as designed. An inspection was performed and no external leaks were found. Safe plant conditions were maintained at all times.

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IV. CORRECTIVE ACTIONS

The open Filter/Demineralizer drain valves were closed and the RWCU system was cooled down using Cycled Condensate. The system was subsequently returned to service.

This event will be reviewed by the Mechanical Maintenance and Operating Departments to make sure their personnel are aware that valves outside of an Out of Service cannot be manipulated without a procedure or other controlling mechanism. (AIR's 1-84-67124 and 1-84-67125)

V. PREVIOUS EVENTS

There have been previous RWCU isolations, however this is the first event which can be attributed to open RWCU filter drain valves.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Daniel R. Smythe, 815/357-6761, extension 292.



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Telephone 815/357-6761

August 23, 1984

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

Dear Sir:

Reportable Occurrence Report #84-046-00, Docket #050-373 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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