

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 03
--	--------------------------------------	---------------------

TITLE (4)
Manual Scram Shutdown

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	28	84	84	042	00	08	15	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(e)	<input type="checkbox"/>	80.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)
	20.406(a)(1)(i)	<input type="checkbox"/>	80.36(c)(1)	<input type="checkbox"/>	80.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)
	20.406(a)(1)(ii)	<input type="checkbox"/>	80.36(c)(2)	<input type="checkbox"/>	80.73(a)(2)(vii)	<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)(viii)(A)	<input type="checkbox"/>	
	20.406(a)(1)(iv)	<input type="checkbox"/>	80.73(a)(2)(ii)	<input type="checkbox"/>	80.73(a)(2)(viii)(B)	<input type="checkbox"/>	
	20.406(a)(1)(v)	<input type="checkbox"/>	80.73(a)(2)(iii)	<input type="checkbox"/>	80.73(a)(2)(ix)	<input type="checkbox"/>	

LICENSEE CONTACT FOR THIS LER (12)

NAME Kenneth J. Kalmon, Extension #325	TELEPHONE NUMBER	
	AREA CODE 815	357-6761

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	A/A	P/T	R369	N					
D	J/M	Z999	Z999	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

When proceeding with normal unit shutdown on July 28, 1984, the Rod Sequence Control System (RSCS) was declared inoperable and the reactor was manually scrambled in accordance with Technical Specifications. During the same shutdown, a Primary Containment Isolation System (PCIS) Group 1 isolation occurred.

The RSCS System became inoperable because pressure transmitter 2C11-N054A failed. This transmitter sends a reactor power level signal to the RSCS System. The PCIS isolation occurred because the Low Condenser Vacuum Bypass Switches were not bypassed when vacuum was broken under LOP-0G-10.

Pressure Switch 2C11-N054A was replaced. The new switch was tested and put in service. Procedure changes were initiated for LOP-0G-10 and LGP 2-2 to prompt operators to bypass the Low Condenser Vacuum Trips before breaking Main Condenser Vacuum.

IEZZ
1/1

8408310053 840815
PDR ADOCK 05000374
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
LaSalle County Station Unit 2	05000374	84	042	00	02	OF 03

TEXT (if more space is required, use additional NRC Form 388A's) (17)

I. EVENT DESCRIPTION

On July 28, 1984, at 2131 hours with LaSalle Unit 2 commencing with normal unit shutdown to repair a steam leak on the first stage of the Moisture Separator Reheater and at 16% power, the Rod Sequence Control System (RSCS,AA) was declared inoperable. In accordance with Technical Specification 3.1.4.2.a.2, the reactor was manually scrammed. Following the scram, a reactor vessel level transient occurred. Vessel level first fell to about 12 inches then increased to greater than 55.5 inches, tripping the Motor-Driven Reactor Feed Pump, prior to achieving stable reactor level. All emergency plant shutdown systems performed normally and as expected. No ECCS or RCIC(BN) action was required. Work Request L39362 was written to investigate the problem with RSCS.

After the manual scram, while continuing with normal plant shutdown procedures, a Primary Containment Isolation System (PCIS, JM) Group I isolation occurred at 2355 hours. Operators were performing LOP-OG-10, Off Gas (WF) System Shutdown. The PCIS Group I isolation occurred because the Low Condenser Vacuum Bypass Switches were not in "Bypass" before condenser vacuum was broken under LOP-OG-10.

II. CAUSE

Instrument Maintenance personnel investigating the RSCS problem under Work Request L39362 found pressure transmitter 2C11-N054A pegged high and not functioning properly. Pressure transmitter 2C11-N054A is one of two transmitters that sense first stage turbine pressure (TA) and transmit this information to RSCS logic. These signals serve as the power level references for the RSCS System.

Pressure transmitter 2C11-N054A sends a signal to dual setpoint pressure switch 2C11-N654A. One switch of 2C11-N654A is for the RSCS Low Power Set Point (LPSP) and one switch is for the Low Power Alarm Point (LPAP). The LPAP contacts open below approximately 30% power, activating alarms to warn operators during power descents that they are approaching the power level at which RSCS functions will be operable. It also activates the row/column rod position display, telling operators what rod is next in the sequence.

The LPSP switch on 2C11-N654A is one of two redundant switches that open below 20% power to activate the RSCS System. The redundant LPSP contacts are on pressure switch 2C11-N654B which receives a signal from pressure transmitter 2C11-N054B.

Because pressure transmitter 2C11-N054A was pegged high, both contacts on 2C11-N654A remained closed. The LPAP contacts continued to send a blanking signal to the row/column rod position display and no alarm was received. It is for this reason the RSCS System was declared inoperable, and a manual scram was taken in accordance with Technical Specification 3.1.4.2.a.2.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

The PCIS Group I isolation occurred because the Low Condenser Vacuum Bypass Switches (switches S24A and S24C at panel 2H13-P609 and switches S24B and S24D at panel 2H13-P609) were not in "Bypass" when the steam jet air ejector (SH) was secured and condenser vacuum was lost under procedure LOP-OG-10. A step to verify these switches were in "Bypass" was not in LOP-OG-10. This procedural deficiency led to the PCIS Group I isolation.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The redundant pressure transmitter, 2C11-N054B, was operable at all times and was sending first stage turbine pressure information to redundant pressure switch 2C11-N654B. Because of this redundancy, the RSCS System was activated at its Low Power Set Point. The Rod Sequence Control System would have backed up the Rod Worth Minimizer (AA) System and generated rod blocks if the rod insertion sequence had been violated. Safe plant operation was maintained at all times.

At the time of the PCIS Group I isolation, the reactor was at 0% power. The Low Condenser Vacuum Switches performed as designed and Main Steam Isolation Valves and Main Steam Line Drain Valves closed as required. Safe plant operation was maintained at all times.

IV. CORRECTIVE ACTIONS

Pressure transmitter 2C11-N054A was replaced with a new transmitter. The new pressure transmitter was tested satisfactorily under Work Request L39362 and put in service. Pressure transmitter 2C11-N054A is manufactured by Rosemount Inc.

Procedure changes to LOP-OG-10, "Off Gas System Shutdown", and LGP 2-2, "Unit Shutdown from Power Operation to Hot Standby", were initiated to prompt operators to bypass the Low Condenser Vacuum Trips before breaking Main Condenser Vacuum. (AIR's 01-84-67115, 01-84-67116) The steam leak on the first stage reheater of the Moisture Separator Reheater was repaired under Work Request L39333, and the Moisture Separator Reheater was returned to service on August 2, 1984.

V. PREVIOUS OCCURRENCES

No similar occurrences were reported within a year previous to the July 28, 1984 occurrence.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Kenneth J. Kalmon, (815)357-6761, Extension 325.



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

August 15, 1984

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

Dear Sir:

Reportable Occurrence Report #84-042-00, 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

IE22
/1