

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 0 3		
TITLE (4)																						
Group I Isolation from Low Condenser Vacuum																						
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 NUMBERS								
0 5	3 1	8 5	8 5	0 2 4	0 0 0	6 1	9 8	5						0 5 0 0 0								
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)																				
4		20.402(b)				20.405(c)				X 60.73(a)(2)(iv)				73.71(b)								
POWER LEVEL (10)		20.405(a)(1)(i)				60.36(c)(1)				60.73(a)(2)(v)				73.71(c)								
0 0 0		20.405(a)(1)(ii)				60.36(c)(2)				60.73(a)(2)(vi)				OTHER (Specify in Abstract Below and in Text: NRC Form 365A)								
		20.405(a)(1)(iii)				60.73(a)(2)(ii)				60.73(a)(2)(vii)(A)												
		20.405(a)(1)(iv)				60.73(a)(2)(iii)				60.73(a)(2)(vii)(B)												
		20.405(a)(1)(v)				60.73(a)(2)(iv)				60.73(a)(2)(viii)												
LICENSEE CONTACT FOR THIS LER (12)																						
NAME										TELEPHONE NUMBER												
Kenneth J. Kalmon, extension 325										AREA CODE 8 1 5 3 5 7 1 6 7 6 1												
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																						
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD													
D	J M	Z Z Z Z	Z Z Z Z	N																		
SUPPLEMENTAL REPORT EXPECTED (14)																						
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR						
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)																						
<p>On May 31, 1985, a Primary Containment Isolation System (PCIS, JM) Group 1 isolation signal was generated when the Unit 2 main turbine was reset for valve testing. The unit was in Cold Shutdown with all PCIS Group 1 isolation valves closed at the time.</p> <p>At the time of the occurrence, the unit auxiliary transformer was being backfed through the main power transformers. This line up requires that the generator output breakers be closed with the generator disconnect links removed. With the generator breakers closed a speed of 1800 RPM is automatically selected by the turbine control circuitry or turbine reset. The selection of 1800 RPM speed reference causes all main turbine stop valves to open. With the main turbine stop valves open the PCIS Group 1 isolation or low condenser vacuum is no longer bypassed. This resulted in the generation of the isolation signal.</p> <p>A caution card was placed at the turbine reset button warning Operators of the PCIS signal on turbine reset. Operators were trained on the event. The procedure outlining the method used to backfeed the unit auxiliary transformer was revised to hang a caution card at the reset button when the procedure is performed.</p>																						

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

I. EVENT DESCRIPTION

At 1246 hours on May 31, 1985, with LaSalle Unit 2 in Cold Shutdown, a Primary Containment Isolation system (PCIS, JM) Group I isolation occurred during main turbine valve testing. The isolation happened when the main turbine was reset. The Main Steam Isolation Valves (MSIV) did not move because they were already closed.

II. CAUSE

At the time of the May 31, 1985, occurrence the unit auxiliary transformer was being backfed via the Unit 2 main power transformers. This lineup requires that the disconnect links at the Unit 2 main generator output be removed and the output breakers for the generator be closed.

With the generator output breakers closed and the main turbine reset, a speed reference of 1800 RPM is automatically selected by the Electro-Hydraulic Control (EHC) speed control logic. This provided an opening bias to the #2 Main Turbine Stop Valve (MTSV). When #2 MTSV reached the 95% open position, MTSV's #1, #3 and #4 opened.

The PCIS Group I isolation on low condenser vacuum is bypassed if the MTSV's are less than 95% open and reactor pressure is less than 1043 psig. Opening of the MTSV's deactivated the low condenser vacuum bypass and since there was no condenser vacuum (unit in Cold Shutdown) a PCIS Group I isolation signal was generated.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The probable consequences of this occurrence were minimal because LaSalle Unit 2 was shut down at the time and all Main Steam Isolation Valves (MSIV) were closed. This particular PCIS trip was designed to prevent steam flow to the condenser when condenser vacuum is low. There was no danger of this happening since no steam was being produced and all MSIV's were closed. PCIS and EHC circuitry responded as required.

IV. CORRECTIVE ACTIONS

A caution card (#2-297-85) was placed at the main turbine reset button alerting Operators of the unit auxiliary transformer backfeeding lineup and its affect on the EHC and PCIS circuitry.

The Shift Control Room Engineers (SCRE) and Nuclear Station Operators (NSO) were trained on this event.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED DATE: 01/30/01

EXPIRES: 6/30/02

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		05	000374	85	024	0003	OF 03

TEXT (If more space is required, use additional NRC Form 285A's) (17)

IV. CORRECTIVE ACTIONS (Continued)

LOP-AP-08, Removing System Auxiliary Transformers SAT 142(242) From Service with Unit 1(2) In Shutdown, was revised to have a caution card hung at the main turbine reset button warning Operators of the PCIS Group I isolation signal on turbine reset if the UAT is being backfed.

V. PREVIOUS OCCURRENCES

A similar problem was experienced on February 29, 1984, and was reported under DVR 1-2-84-41. On February 29, 1984, the Main Turbine Stop Valves were opened to inspect the EHC lines for leaks and a PCIS Group I isolation on low condenser vacuum resulted.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

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June 19, 1985

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

Dear Sir:

Reportable Occurrence Report #85-024-00, Docket #050-374 is being submitted to your office in accordance with 10CFR 50.73.

C E Sargent
for G. J. Diederich
Station Manager
LaSalle County Station

GJD/DRR/kg

Enclosure

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

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