

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): LaSalle County Station Unit 2	DOCKET NUMBER (2): 050000374	PAGE (3): 1 OF 03
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TITLE (4): Generator Lockout and Reactor Scram

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)	
05	21	84	84	020	00	06	07	84			050000	

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

OPERATING MODE (9): 1	<input checked="" type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(e)	<input checked="" type="checkbox"/> 80.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
POWER LEVEL (10): 045	<input type="checkbox"/> 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)
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 80.38(a)(2)	<input type="checkbox"/> 80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
	<input type="checkbox"/> 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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Alwyn C. Settles, Extension 571	TELEPHONE NUMBER:
	AREA CODE: 815 315 71-16 716 11

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS
B	E	L	87	W120N					

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)

On May 21, 1984, the Main Power Transformer Backup Differential Overcurrent Relay tripped the Main Generator. This caused a Main Turbine Trip and a resultant reactor scram as the reactor was greater than 30 percent power. The investigation revealed the Current Transformer inputs to the relay from the output circuit breakers were wired in a "WYE" configuration as opposed to the required "DELTA" arrangement. The Current Transformers were re-wired and all similar Current Transformer's arrangements verified correct.

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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 8 4	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		0 2 0	0 0	0 2	OF	0 3

TEXT (if more space is required, use additional NRC Form 388A's) (7)

I. EVENT DESCRIPTION

On May 21, 1984, the Main Power Transformer Backup Differential Phase A overcurrent relay actuated. The resultant Main Generator Lockout caused a Main Turbine Trip. Reactor power was greater than 30 percent so the Main Turbine (TB) Trip generated a reactor scram.

An investigation revealed the Current Transformer inputs to the Main Transformer Backup Differential overcurrent relays were wired in a "WYE" configuration as opposed to the required "DELTA" arrangement.

II. CAUSE

Unit two reactor was operating at 45 percent power, Main Generator on line, steady state. At 1824 on May 21, 1984, the Main Power Transformer Backup Differential Phase A overcurrent relay (87, Westinghouse, 2887-MP009A) actuated. This relay is in the Main Generator Output Power System (EL). The Main Generator Lockout relay (86) was actuated, this tripped the Main Generator and caused a Main Turbine trip (TB).

The reactor was operating at greater than 30 percent power, so the Main Turbine Trip generated a reactor scram (JC) as per design.

Subsequent investigations found the input Current Transformers (XCT) to the Main Power Transformer Backup Differential Relays from Output Circuit Breakers 2-3 and 3-4, in the Switchyard System (FK), wired in a "WYE" configuration instead of the required "DELTA" arrangement.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The Main Power Transformer Primary Differential Relays (87, Westinghouse, 2887-MP003A,B,C and 2887-MP004A,B,C) remained operable and available. All protective features and functions were maintained by the primary circuits at all times.

The Main Power Transformer Backup Differential Relays actuated at less than one-half of their required setpoint. This indicates the protection circuitry functioned very conservatively even in the mis-wired condition.

IV. CORRECTIVE ACTIONS

The Current Transformers to the Main Power Transformer Backup Differential Relays were re-wired in the proper "DELTA" configuration by the Operational Analysis Department (OAD).

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FACILITY NAME (1) LaSalle County Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 7 4	LER NUMBER (6)			PAGE (3)	
		YEAR 8 4	SEQUENTIAL NUMBER 0 2 0	REVISION NUMBER 0 0		
					0 3 OF 0 3	

TEXT (If more space is required, use additional NRC Form 368A's) (17)

IV. CORRECTIVE ACTIONS CONTINUED

All other Current Transformers in the Main Generator Output Power System and the Switchyard Systems were checked for proper wiring arrangements. No additional discrepancies were noted.

An investigation is continuing into why the Main Transformer Deluge (KP) System did not function during the event. (AIR 1-84-67085)

V. PREVIOUS OCCURRENCES:

There have been no previous Unit 2 Current Transformer wiring errors of this type.

VI. NAME AND TELEPHONE NUMBER OF PREPARER:

Alwyn C. Settles, (815)357-6761, Extension 571.



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

June 7, 1984

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

Dear Sir:

Reportable Occurrence Report #84-020-00, 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, Resident Inspector
NRC, Regional Director
INPO-Records Center
File/NRC

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