

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) LaSalle County Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 7 3 1	PAGE (3) OF 0 3
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TITLE (4)

Division II ADS Inop

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)
0 4	1 7	8 5	8 5	0 3 7	0 0	0 5	1 0	8 5			0 5 0 0 0

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)										
	20.402(a)			20.408(c)			80.73(a)(2)(iv)			73.71(b)	
	20.408(a)(1)(i)			80.36(c)(1)			80.73(a)(2)(v)			73.71(c)	
	20.408(a)(1)(ii)			80.36(c)(2)			80.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Text, NRC Form 365A)	
	20.408(a)(1)(iii)			80.73(a)(2)(i)			80.73(a)(2)(viii)(A)				
	20.408(a)(1)(iv)			80.73(a)(2)(ii)			80.73(a)(2)(viii)(B)				
20.408(a)(1)(v)			80.73(a)(2)(iii)			80.73(a)(2)(ix)					
POWER LEVEL (10) 9 9.7											

LICENSEE CONTACT FOR THIS LER (12)

NAME Dale Spencer, extension 649	TELEPHONE NUMBER AREA CODE 8 1 5 3 5 7 1 6 7 6 1
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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	
A	S	B	P	D	S	S	3	8	2	N

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On April 17, 1985, at 1630 hours, with Unit 1 at 1080 MWe, the Division II ADS Low Low Level Permissive differential pressure switches were found to be wired incorrectly. A 7-day time clock was entered. Subsequent interpretation of Technical Specifications resulted in a GSEP Alert and initiation of a 100 MW/hr shutdown in accordance with Technical Specification 3.0.3.

At 2030 hours the 1B21-N037BA differential pressure switch was wired correctly, tested, and returned to service. At 2040 hours, circuitry associated with 1B21-N037DA was placed in the TRIPPED condition as required by Technical Specification Table 3.3.3-1 Action 30.

At 2045 hours the GSEP "Alert" and the load reduction were terminated at 1000 MWe.

The event was caused by a difference in the wiring diagram and the schematic diagram for the design of an Environmental Qualification Modification. This error was not detected during the performance of the post maintenance test prior to declaring the equipment operable. A review has been performed to verify no similar discrepancies exist in the other Environmental Qualification Modifications. Architect Engineer and Maintenance personnel have been counseled on the errors.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 318C-0104
EXPIRES 8/31/85

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

I. EVENT DESCRIPTION

On April 17, 1985, at 1630 hours, Division II ADS Low Low Low Level Permissive Differential Pressure Switches, 1B21-NO37BA and DA, were found not to perform as per LIS-NB-304, "Unit 1 Reactor Vessel Low Low Water Level RCIC Initiation, Low Low Low Water Level LPCS/RHR Initiation, and ADS Permissive Functional Test". At the time of discovery, Unit 1 was in the Run Mode at approximately 1080 MWe. Upon discovery of the problem ADS (SB) system B was declared inoperable under Technical Specification 3.3.3, Limiting Condition for Operation. Initial interpretation of Specification 3.3.3 indicated that the system was on a 7-day time clock since HPCS (BG) and RCIC (BN) were operable.

A preliminary investigation revealed that the subject instruments were changed out with an Environmentally Qualified (EQ) model under Modification M-1-1-84-091 and subsequently declared operable on 3/31/85 following performance of a post maintenance calibration test (LIS-NB-104). The switch was wired in accordance with wiring diagram 1E-1-4650AA, revision S4 which designated that normally closed contacts be utilized. This is in conflict with system design and schematic diagram 1E-1-4201AH, revision H1 which required normally open contacts.

At approximately 1830 hours, a courtesy notification was made to the NRC Senior Resident Inspector. The Senior Resident stated that the Station had misinterpreted the Technical Specification and that since the system had been inoperable since 3/31/85, Technical Specification 3.0.3 should be invoked. As a result of this interpretation, a GSEP Alert was declared, and a 100 MWe/hour load reduction was commenced at 1940 hours.

II. CAUSE

The discrepancy between the wiring and schematic diagrams was due to oversight by Architect Engineer design personnel.

The wiring discrepancy was not detected during post maintenance testing due to an error by the Instrument Maintenance Technicians performing the test. The EQ Modification relocated the switches to a location remote from the instrument rack thereby requiring two Technicians to monitor test parameters. This relocation and the associated new test setup contributed to the possibility of error.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

During the period between March 31, 1985, and April 17, 1985, both Division II ADS Low Low Low Level Differential Pressure Switches were inoperable. Since these instruments provide logic in series with high drywell pressure and a confirmatory low level signal, no abnormalities occurred during normal unit operations. In the case of all three initiation signals being present, the reverse wiring of the 1B21-NO37BA and DA differential pressure switches would have inhibited the automatic initiation of ADS "B". ADS "A" was available as was manual initiation of system B. HPCS and RCIC were available during this time period. Probable impact of this event on safe plant operation was negligible.

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TEXT (If more space is required, use additional NRC Form 254A's) (17)

IV. CORRECTIVE ACTION

At 2030 hours, the 1B21-N037BA differential pressure switch was wired correctly, tested and returned to service. At 2040 hours, circuitry associated with 1B21-N037DA was placed in the Tripped condition as required by Technical Specification Table 3.3.3-1, Action 30.

At 2045 hours the GSEP "Alert" and load reduction were terminated at 1000 MWe.

The 1B21-N037DA Differential Pressure Switch was wired correctly, tested and returned to service at 2105 hours. AIS "B" was declared operable at 2110 hours.

All EQ upgraded instruments with similar potential that were declared operable prior to April 17, 1985, were verified correct in the field.

Operability declaration for instruments with EQ modifications in progress was placed on hold until completion of a design review to ensure no additional errors existed. This review has been completed.

Since the instruments could not have passed the post maintenance test in the incorrect wiring configuration, the Instrument Maintenance Technicians were interviewed concerning performance of the specified post maintenance testing. Although the Technicians showed a thorough understanding of the procedure and methods used for calibration, it was concluded that an error was committed.

The involved individuals have been advised of this conclusion and advised to use greater care in the future.

The post maintenance test, LIS-NB-104, is being revised to minimize the potential for future errors of this type. (AIR 373-200-85-60063) Additionally, other Instrument Maintenance procedures are being reviewed and those which may contain similar potential for error are being revised. (AIR 373-200-85-60064)

The Architect Engineer personnel involved in the schematic versus wiring diagram discrepancy have been counseled and retrained in project procedures.

V. PREVIOUS OCCURRENCES

None.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Dale Spencer, 815/357-6761, extension 649.



Commonwealth Edison
LaSalle County Nuclear Station
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Marseilles, Illinois 61341
Telephone 815/357-6761

May 10, 1985

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

Dear Sir:

Reportable Occurrence Report #85-037-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

R.D. Buehler
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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