

LICENSEE EVENT REPORT (LER)

|  |                                |                   |
|--|--------------------------------|-------------------|
| FACILITY NAME (1)<br>LaSalle County Station Unit 2 | DOCKET NUMBER (2)<br>050000374 | PAGE(S)<br>1 OF 2 |
|--|--------------------------------|-------------------|

TITLE (4)  
Failure of RCIC Hi Temperature Isolation Switch

| 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) |   |   |   |   |   |   |   |   |   |
| 1              | 2   | 1    | 8              | 4                 | 8               | 4               | 0   | 8    | 0                             | 3 | 0 | 8                | 5 | 0 | 5 | 0 | 0 | 0 |   |   |   |
| 1              | 4   | 8    | 4              | 8                 | 4               | 0               | 8   | 4    | 0                             | 1 | 0 | 3                | 0 | 8 | 8 | 5 | 0 | 5 | 0 | 0 | 0 |

|                         |                         |   |  |                  |                                     |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-------------------------|---|--|------------------|-------------------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| OPERATING MODE (9)<br>1 | POWER LEVEL (10)<br>097 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11) |  |                  |                                     |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.402(b)   |  | 20.408(e)        | <input checked="" type="checkbox"/> | 80.73(a)(2)(iv)     |  | 73.71(b)   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.408(a)(1)(i)   |  | 80.38(a)(1)      |                                     | 80.73(a)(2)(v)      |  | 73.71(a)   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.408(a)(1)(ii)  |  | 80.38(a)(2)      |                                     | 80.73(a)(2)(vi)     |  | OTHER (Specify in Abstract below and in Text, NRC Form 385A) |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.408(a)(1)(iii)   |  | 80.73(a)(2)(i)   |                                     | 80.73(a)(2)(vii)(A) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.408(a)(1)(iv)  |  | 80.73(a)(2)(ii)  |                                     | 80.73(a)(2)(vii)(B) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         |                         | 20.408(a)(1)(v)   |  | 80.73(a)(2)(iii) |                                     | 80.73(a)(2)(x)      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| LICENSEE CONTACT FOR THIS LER (12)          |  | TELEPHONE NUMBER  |                       |
|---|--|-------------------|-----------------------|
| NAME<br>Kermit C. Wittenburg, extension 772 |  | AREA CODE<br>8115 | NUMBER<br>3577 167161 |

| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) |        |           |              |                     |       |        |           |              |                     |
|--|--------|-----------|--------------|---------------------|-------|--------|-----------|--------------|---------------------|
| CAUSE  | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS |
| X  | JM     | TIS       | R281         | N                   |       |        |           |              |                     |

|   |  |  |                               |       |     |      |
|---|--|--|-------------------------------|-------|-----|------|
| SUPPLEMENTAL REPORT EXPECTED (14)   |  |  | EXPECTED SUBMISSION DATE (15) | MONTH | DAY | YEAR |
| <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO |  |  |                               |       |     |      |

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

On December 14, 1984, at 1045 hours with Unit 2 operating at 97 percent power, the Instrument Maintenance Department was performing the Reactor Core Isolation Cooling (BN) Leak Detection (JM) temperature switch calibration, LIS-RI-204. It was discovered that the setpoint for the trip of the 2E31-N602B module did not stay at the prescribed value but actuated outside the allowable tolerance. The RCIC isolation valves were closed as required by Technical Specification 3.3.2. The exact cause of this failure is not known. A Work Request was written and performed to have a spare module installed and calibrated. This was accomplished and the RCIC system declared operable as of 1320 hours. Another Work Request was written for the investigation as to the cause of failure of the original module. Attempts were made to make the output erratic by heating, cooling, energizing, de-energizing, static charges, and input signals. The output was found to be stable throughout the testing.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

I. EVENT DESCRIPTION

On December 14, 1984, at 1045 hours with Unit 2 operating at 97 percent power, the Instrument Maintenance Department was performing the Reactor Core Isolation Cooling (BN) Leak Detection (JM) temperature switch calibration, LIS-RI-204, when it was discovered that module 2E31-N602B could not be calibrated properly. The RCIC isolation valves were closed as required by Technical Specification 3.3.2.

II. CAUSE

The mode of failure was that the setpoint for the trip could not be adjusted correctly. The setpoint as a function of a millivolt signal did not stay at the prescribed value but fluctuated outside the allowable tolerance. The exact cause of this situation is not known. The failed Riley unit was bench tested. The output remained stable throughout the entire input range. Attempts were made to make the output erratic by heating, cooling, energizing, de-energizing and static charges. The output remained stable. No problems were found.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The exact time at which the module failed is not known. The as-found setpoint was within the tolerance limits of the required setpoint. It was last successfully calibrated on September 19, 1984. Because the redundant ambient temperature switch as well as both differential temperature switches were operable at all times, the plant was maintained in a safe condition throughout the event.

IV. CORRECTIVE ACTIONS

A Work Request was written to have the degraded module replaced with a spare. After a successful calibration on the spare module, the RCIC system was declared operable as of 1320 hours. Since the cause of the failure cannot be determined no further action is identified at this time with the Riley unit removed.

V. PREVIOUS OCCURRENCES

This type of failure of the Riley temperature switch modules has not previously occurred.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Kermit C. Wittenburg, 815/357-6761, extension 772.



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

March 8, 1985

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

Dear Sir:

Reportable Occurrence Report #84-084-01, Docket #050-374 is being submitted to your office to supercede previously submitted Reportable Occurrence Report 84-084-00 to incorporate action in Cause section taken during investigation of cause of failure.

*for* *R.D. Bishop*  
G. J. Diederich  
Plant Manager  
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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