NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

# LICENSEE EVENT REPORT (LER)

| FACILITY NAME (1) | DOCKET NUMBER (2) | PAGE (3) |
|---|---|---|
| BYRON, UNIT 1 | 0 5 0 0 0 4 5 4 | 1 OF 0 2 |

TITLE (4)

SPURIOUS SAFETY INJECTION ACTUATION

| 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 2 | 1 5 | 8 5 | 8 5 | 0 2 0 | 0 0 | 0 3 | 1 5 | 8 5 | | 0 5 0 0 0 |
| | | | | | | | | | | 0 5 0 0 0 |

| OPERATING MODE (9) | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | |
|---|---|---|---|---|
| 3 | 20.402(b) | 20.405(c) | X 50.73(a)(2)(iv) | 73.71(b) |
| POWER LEVEL (10) 0 0 0 | 20.405(a)(1)(i) | 50.36(c)(1) | 50.73(a)(2)(v) | 73.71(c) |
| | 20.405(a)(1)(ii) | 50.36(c)(2) | 50.73(a)(2)(vii) | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |
| | 20.405(a)(1)(iii) | 50.73(a)(2)(i) | 50.73(a)(2)(viii)(A) | |
| | 20.405(a)(1)(iv) | 50.73(a)(2)(ii) | 50.73(a)(2)(viii)(B) | |
| | 20.405(a)(1)(v) | 50.73(a)(2)(iii) | 50.73(a)(2)(x) | |

LICENSEE CONTACT FOR THIS LER (12)

| NAME | TELEPHONE NUMBER |
|---|---|
| Erich Wurz, System Test Engineer, Ext. 250 | AREA CODE 8 1 5 2 3 4 - 5 4 4 1 |

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 | B I O | I P I T | T 2 0 4 | Y | | | | | | | |
| | | | | | | | | | | | |

| SUPPLEMENTAL REPORT EXPECTED (14) | | EXPECTED SUBMISSION DATE (15) | MONTH | DAY | YEAR |
|---|---|---|---|---|---|
| YES (If yes, complete EXPECTED SUBMISSION DATE) | X NO | | | | |

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

At 1733 hours, an automatic Safety Injection actuation occurred. This resulted when one Pressurizer pressure channel was under maintenance and a second pressure channel tripped spuriously, making up the required 2 out of 4 logic for automatic SI actuation.

Because it is believed that a radio within the containment may have accidentally keyed and caused a disturbance to the pressure channel, radios will no longer be allowed within the containment to eliminate any further possibility of radio-transmitter interference.



IE22
1/1

NRC Form 366A
(9-83)

# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) |
|---|---|---|---|---|---|
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | |
| BYRON, UNIT 1 | 0 5 0 0 0 4 5 4 | 8 5 | — 0 2 0 | — 0 0 | 0 2 OF 0 2 |

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

On February 15, 1985, at 1733 hours with Unit 1 in Hot Standby, an automatic Safety Injection actuation occurred. According to the "First Out Annunciator" alarm, the Safety Injection was due to Pressurizer low pressure. At the time of the event the Instrument Maintenance Department had Pressurizer pressure channel 455 out of service for calibration of the transmitter, 1PT-455. A redundant channel of Pressurizer pressure, channel 456, tripped, causing the spurious Safety Injection by making up the required 2 out of 4 logic for automatic SI actuation. That channel quickly reset in approximately one-tenth of a second. Also of note, the 460 channel for Pressurizer level spiked and reset within the same time frame.

The operator proceeded into the Emergency Procedure, "Reactor Trip or Safety Injection Unit 1" and determined that the event was an inadvertent Safety Injection. The operator then entered the Emergency Procedure "SI Termination Following Spurious SI" and returned the plant to normal.

The root cause of this event is indeterminate. However, the fact that both the pressure channel and level channel spiked and then quickly reset indicates some form of disturbance to their respective transmitters. At the time of the event, there were two operators near the transmitters. For emergency communication reasons, the operators did have a radio with them, and it is possible that the radio was accidentaly keyed leading to the transmitters' disturbance. These transmitters, manufactured by Barton, are known to be sensitive to radio transmission. Other personnel were in the containment at the time, but were on the opposite side of containment. They did not have radios. Also, the Load Dispatcher was contacted to check for grid perturbations but none were detected.

From a safety standpoint, the significance of this event is that the Safety Injection System was performing its function properly. There was no danger imposed on the plant nor the public as a result of this event.

Although the cause of the event was not determined with certainty, corrective action has been taken. All operators have been informed that no radios are to be carried into the containment even for emergency communication purposes. Also, several signs have been painted around the containment airlock doors stressing to everyone, that no radios are to be used within the containment. Communication will be via the Station's page system. Forbidding radios within the containment will eliminate one possible form of transmitter disturbance.

Previous occurrences: none

**Commonwealth Edison**
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

March 15, 1985

LTR: BYRON 85-0402

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

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73(a)(2)(iv) which requires a 30 day written report.

This report is number 85-020-00, Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 85-020-00

cc: J. G. Keppler, NRC Region III Administrator
J. Hinds, NRC Resident Inspector
INPO Record Center
CECO Distribution List

#3/017

IE22
1/1