

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Quad-Cities Nuclear Power Station, Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 0 2 6 5	PAGE (3) 1 OF 0 3
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TITLE (4)
Unit 2 'B' Fuel Pool Monitor Tripped; Auto-Starting Standby Gas Treatment

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	0	1	8	4	1	2	1	NA		0 5 0 0 0 0
1	2	0	1	8	4	1	2	1			0 5 0 0 0 0

OPERATING MODE (9) 4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 0 9 9	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)

NAME E. Weinfurter	TELEPHONE NUMBER
	AREA CODE 3 0 9 6 5 4 - 2 2 4 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		
X	I L	R I	G O 8 0	N							

SUPPLEMENTAL REPORT EXPECTED (14) <input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input type="checkbox"/> 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 December 1, 1984, Unit Two was operating at approximately 99 percent core thermal power. At 9:25 a.m. the Reactor Building Fuel Pool Channel 'B' Area Radiation Monitor tripped, isolating the Reactor Building Ventilation (VA) and starting the Standby Gas Treatment System (BH). A check of both channels of the Fuel Pool Area Radiation Monitors did not indicate any abnormal radiation levels. The Reactor Building Ventilation and Standby Gas Treatment were returned to normal. The Instrument Maintenance Department found that the trip setpoint of the 'B' Radiation Monitor had drifted down from the normal setpoint of 100 mr/hour to 35 mr/hour, allowing normal instrument noise to trip the monitor. Corrective action was to recalibrate and functionally test the monitor.

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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)

Event Description

On December 1, 1984, Unit Two was operating at approximately 99 percent core thermal power. At 9:25 a.m. the Reactor Building Fuel Pool Channel 'B' Area Radiation Monitor (IL), 1705-16B, tripped, isolating the Reactor Building Ventilation (VA) and starting the Standby Gas Treatment System (BH). A check of both Fuel Pool Area Radiation Monitors in the Control Room indicated no abnormal radiation levels on the Refuel Floor. A day earlier, on November 30, an identical event had occurred. This suggested that there might have been an instrumental problem with the 'B' Radiation Monitor, thus Work Request Q38986 was written to investigate and correct the problem. The Reactor Building Ventilation System was returned to normal and Standby Gas Treatment System was placed in STANDBY. There were minimum safety implications as a result of this event because all systems performed as designed after receiving the spurious signal from the Fuel Pool Area Radiation Monitor. This report is being submitted to satisfy the requirements outlined in 10 CFR 50.73(a)(2)(iv).

Cause

The apparent cause of this event was instrument setpoint drift. The Fuel Pool Area Radiation Monitor is calibrated to trip at a setpoint of 100 mr/hour. It was discovered that the setpoint had drifted to 35 mr/hour. Nominal radiation levels experienced by these monitors are in the range of 17 to 20 mr/hour. However, there are momentary readings that could exceed 30 mr/hour. Apparently, momentary readings exceeding the drifted setpoint of 35 mr/hour caused the 'B' Fuel Pool Area Radiation Monitor to trip both on December 1 and on November 30. The cause of the instrument drift is not known at this time.

The instrument involved in these events is a General Electric Indicating Trip Unit, Model Number 129B2802G006.

Corrective Action

The immediate corrective action was to check for abnormal radiation levels indicated on both Fuel Pool Area Radiation Monitors. No abnormal radiation levels were indicated by the monitors. The Reactor Building Ventilation and Standby Gas Treatment System were reset.

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TEXT (If more space is required, use additional NRC Form 388A's) (17)

Corrective Action (continued)

Work Request Q38986 was written for the Instrument Maintenance Department to investigate and correct the spurious trip signal. Work on the Indicating Trip Unit was completed on December 1, 1984. This work included two surveillances; Reactor Building Fuel Pool Radiation Monitoring Calibration (QIS 35-1), and Reactor Building Fuel Pool Radiation Monitor Functional Test (QIS 35-2)

A search through two previous sets of calibration data for this monitor (1705-16B) revealed that its calibration setpoint had drifted abnormally during the last several months. Therefore, Work Request Q39202 was written to identify and correct the cause of the setpoint drift on this monitor. A supplemental report will be submitted upon the completion of Work Request Q39202.

There has been one past occurrence involving the Fuel Pool Monitor Instrument setpoint drift. It is documented in Deviation Report D-4-1-83-15.



Commonwealth Edison

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NJK-84-380

December 13, 1984

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

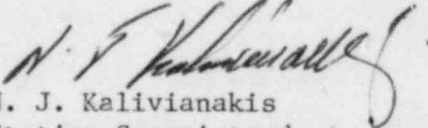
Reference: Quad-Cities Nuclear Power Station
Docket Number 50-265, DPR-30, Unit Two

Enclosed please find Licensee Event Report (LER) 84-012,
for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the require-
ments of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)-
(iv), which requires reporting of any event or condition that resulted
in manual or automatic actuation of any engineered safety feature.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION


N. J. Kalivianakis
Station Superintendent

NJK:HQD/bb

Enclosure

cc B. Rybak
A. Madison
INPO Records Center
NRC Region III

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