

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Quad-Cities Nuclear Power Station, Unit One										DOCKET NUMBER (2) 0 5 0 0 0 2 5 4					PAGE (3) 1 OF 02								
TITLE (4) Spurious Low Water Level 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)										
0	3	0	6	8	4	8	4	0	0	3	0	0	0	4	0	2	8	4	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)																					
POWER LEVEL (10)		20.402(b)				20.406(c)				XX 50.73(a)(2)(iv)				73.71(b)									
		20.403(a)(1)(i)				50.38(c)(1)				50.73(a)(2)(v)				73.71(c)									
		20.406(a)(1)(ii)				50.38(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)													
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)													
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME Anthony Fuhs										TELEPHONE NUMBER 3 1 0 9 6 1 5 4 - 2 1 2 4 1													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs				CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs											
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)

On March 6, 1984, with the Reactor in SHUTDOWN, three full Reactor scrams were received due to erratic Reactor water level indications. These erratic indications were caused by unusual temperature and pressure conditions resulting from a procedure deficiency which allowed the Reactor water to be cooled with the Reactor not vented. These unusual conditions could only occur when the Reactor is being shutdown for refueling. The Reactor Operator correctly followed all procedures. The procedure has been revised to guard against a recurrence of this event. This report is being submitted to document the Reactor scrams that occurred with the unit shutdown.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) Unit One Quad-Cities Nuclear Power Station	DOCKET NUMBER (2) 0 5 0 0 0 2 5 4	LER NUMBER (6)			PAGE (3)		
		YEAR 8 4	SEQUENTIAL NUMBER 0 0 3	REVISION NUMBER 0 0		OF	0 2

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

Event Description

On March 6, 1984, at 0652 hours, Unit One was in SHUTDOWN with all control rods inserted, and the Reactor Operator was performing QGP 2-1, "Normal Unit Shutdown". The Main Steam Isolation Valves, the Main Steam Line Drain Valves, and the Reactor Head Vents were all closed and the 'A' Recirculation Loop temperature was at 227°F and dropping with 'B' Shutdown Cooling on. At this time, the Reactor scrambled on low water level due to erratic water level indication. This event was repeated twice more in the next half hour as the Reactor water temperature was being lowered. Reactor water level indications continued to be erratic until 0750 hours, when the Reactor Operator opened the Main Steam Line Drain Valves (MO 1-220-1 and MO 1-220-2). At 0815 hours the 'A' Recirculation Loop temperature was less than 190°F, allowing the Reactor Operator to open the Reactor Head Vents, per QGP 2-1. This report is being submitted to document the three scrams that occurred while the Reactor was shutdown.

Cause

The cause of this event was a procedural deficiency. The erratic water level indication, which resulted in the three low water level scrams, was due to unusual temperature and pressure conditions in the Reactor. These conditions were the result of the Reactor Operator following the procedure for Normal Unit Shutdown, with the option as presented in the procedure for closing the Main Steam Isolation Valves and the Main Steam Line Drain Valves before the Reactor has been vented. This option is utilized only when a unit is being shutdown for a refueling outage.

Corrective Action

The immediate corrective action was opening the Main Steam Line Drain Valves to stabilize the Reactor water level indications. The deficient procedure has since been revised to guard against this condition. There have been no previous occurrences of this type at Quad-Cities.



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NJK-84-120

April 2, 1984

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

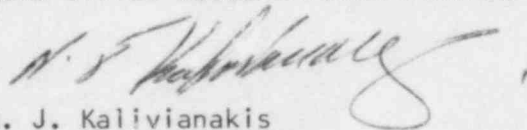
Reference: Quad-Cities Nuclear Power Station
Docket Number 50-254, DPR-29, Unit One

Enclosed please find Licensee Event Report Number (LER) 84-003
for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)(iv), as an event or condition that resulted in automatic actuation of the Reactor Protection System.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION


N. J. Kalivianakis
Station Superintendent

NJK:PDK/bb

Enclosure

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

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