

LICENSEE EVENT REPORT (LER)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3152-0104
EXPIRES 8/31/98

Quad-Cities Nuclear Power Station, Unit 1

DOCKET NUMBER (2)
0 5 0 0 0 2 5 4 1 OF 0 2

Reactor Core Isolation Cooling Trip From High Pressure Switch Failure

DATE (6)			LER NUMBER (8)		REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)	
DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER (5)
02	85	85	011	000	08	19	85	NA	050000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

20.402(b)	20.408(a)	50.73(a)(2)(iv)	73.71(b)
20.408(a)(1)(i)	50.73(a)(1)	50.73(a)(2)(v)	73.71(a)
20.408(a)(1)(ii)	50.73(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
20.408(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.408(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.408(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(viii)	
20.408(a)(1)(vi)	50.73(a)(2)(iv)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

Michael L. Reed, Technical Staff (ext. 187)

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)

SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
BN	PS	B 0 7 4	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

(If yes, complete EXPECTED SUBMISSION DATE) X NO

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

On August 2, 1985, Unit 1 was operating in the RUN mode at 99 percent of rated core thermal power. At 1010 hours, a High Reactor Core Isolation Cooling (RCIC)(BN) Exhaust Pressure and RCIC Turbine Trip alarms annunciated. The High Pressure Coolant Injection (HPCI)(BJ) System operability surveillance was immediately started and successfully completed, per Technical Specification, Section 4.5.E.2 requirements. Upon investigation, Pressure Switch (PS) 1-1360-26 was found "picked-up" causing the Turbine trip. The Pressure Switch was tripped due to sticky operation brought on by water dripping on the instrument rack from a flexible drain hose. The switch was cleaned and calibrated. On August 4, 1985, at 1552 hours, the same events occurred again. The high exhaust Pressure Switch was replaced and the flexible drain hose was moved to prevent further occurrence of water dripping on the instrument rack.

This report is submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)(v), which requires the reporting of any condition that could have prevented the fulfillment of the safety function of a system.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

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

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

Event Description

On August 2, 1985, Unit 1 was operating in the RUN mode at 99 percent of rated core thermal power. At 1010 hours, a High Reactor Core Isolation Cooling (RCIC) (BN) Exhaust Pressure and RCIC Turbine Trip alarms annunciated. The RCIC Turbine was verified tripped by attempting to open the 1-1301-61 valve. The High Pressure Coolant Injection (HPCI) (BJ) System operability surveillance was immediately started and successfully completed per Technical Specification Section 4.5.E.2 requirements. Work Request Q43867 was initiated to investigate and repair the problem. Upon further investigation, PS 1-1360-26 was found "picked-up" causing the Turbine trip. The pressure switch for high exhaust pressure was tripped due to sticky operation of the switch brought on by water dripping on the instrument rack from a flexible drain hose. RCIC was made operable by 1130 hours when the switch was cleaned and calibrated.

On August 4, 1985, at 1552 hours, again the Unit 1 RCIC high exhaust pressure and the Turbine trip alarms annunciated. RCIC was declared inoperable, and HPCI surveillances were initiated and completed. The high exhaust pressure switch was replaced and RCIC was proven operable at 2140 hours. The flexible drain hose was moved in order to prevent water from dripping on the pressure switch.

Since the HPCI System was operable during the entire time RCIC was inoperable, the safety implications of the event were minimal.

Cause

The root cause of this failure is the water dripping on the Barksdale Model D2H-M150SS pressure switch.

Corrective Action

The immediate corrective action was to clean and calibrate the pressure switch. Two days later, when the problem recurred, the switch was replaced and the leaking flexible drain hose was repositioned to prevent water from dripping onto the pressure switch. The RCIC Turbine was inoperable for approximately 1.5 hours on August 2 and approximately 6 hours on August 4. This is the first incident of water dripping on a pressure switch causing RCIC to be inoperable.



Commonwealth Edison

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NJK-85-228

August 19, 1985

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 (LER) 85-011, Revision 00, 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)-(v), which requires the reporting of any condition that could have prevented the fulfillment of the safety function of a system.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

N. J. Kalivianakis
Station Manager

NJK:BRS:bb

Enclosure

cc J. Wojnarowski
A. Madison
INPO Records Center
NRC Region III

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