

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Quad-Cities Nuclear Power Station, Unit 2

DOCKET NUMBER (2)

0 5 0 0 0 2 6 5 1 OF 0 3

PAGE (3)

TITLE (4)

Failure of Unit 2 HPCI Room Cooler Fan Motor

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	0	8	8	5	8	5	0	0	4	0	0	0	3	0	4	8	5	NA	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)	01916	20.402(b)		20.406(a)(1)(i)		20.406(a)(1)(ii)		20.406(a)(1)(iii)		20.406(a)(1)(iv)		20.406(a)(1)(v)		20.406(e)		50.73(a)(2)(i)		50.73(a)(2)(ii)		50.73(a)(2)(iii)		50.73(a)(2)(iv)		50.73(a)(2)(v)		50.73(a)(2)(vi)		50.73(a)(2)(vii)		50.73(a)(2)(viii)(A)		50.73(a)(2)(viii)(B)		50.73(a)(2)(ix)		73.71(b)		73.71(e)		OTHER (Specify in Abstract below and in Text, NRC Form 365A)	

LICENSEE CONTACT FOR THIS LER (12)

NAME		TELEPHONE NUMBER	
B. Strub		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	MANUFAC-TURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS
X	BJ	MIO	B	5	1	5	N		

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)		NO		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
		X					

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

On February 8, 1985, Unit 2 was operating at approximately 96 percent of rated thermal power. At 2:50 p.m. the High Pressure Coolant Injection (HPCI) (BJ) Room Cooler's fan tripped while a routine HPCI surveillance was being performed. It was discovered that the fan's motor failed because of grounded motor windings. HPCI was then declared inoperable and the surveillances required by the Technical Specifications were initiated.

The grounded fan motor was replaced, and HPCI was returned to service at 6 a.m. on February 9, 1985.

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

Event Description

On February 8, 1985, Unit 2 was in the RUN mode at 96 percent of rated thermal power. That afternoon, Unit 2 High Pressure Coolant Injection (HPCI) (BJ) room cooler fan was being run as part of a normal surveillance. At 2:50 p.m. the room cooler fan tripped. An Electrical Maintenance Foreman was sent to investigate. It was discovered that the windings for the fan's motor were shorted to ground. HPCI was declared inoperable and the surveillances required by the Technical Specifications were initiated.

In the event that an incident occurred in which HPCI would be needed to control Reactor water level (small break Loss of Coolant Accident) Reactor Core Isolation Cooling (RCIC) and the Auto Blowdown System were available in addition to the low pressure coolant systems. Also, the normal Feedwater System was operating and available to inject large amounts of water. Technical Specifications, therefore, allow operation in this mode for a period of 7 days. This report is being submitted to satisfy the requirements outlined in 10 CFR 50.73(a)(2)(v).

Cause

The cause of the HPCI room cooler trip was the grounding of the fan motor's windings. At the current time, it appears that the grounding of the fan motor was caused by the seizure of the bearings in the fan motor. The HPCI room cooler fan's motor was supplied by General Electric, part number 5K182AL 2215A.

Corrective Action

The immediate action taken upon the tripping of the HPCI room cooler was to declare HPCI inoperable. The surveillances required by the Technical Specifications were initiated. At the same time, the Electrical Maintenance Department was contacted to initiate repairs. When it was determined that the fan motor would need to be replaced, the Storeroom was contacted for a replacement. The Storeroom did not have an identical Safety Related motor but a similar Safety Related motor was obtained from Dresden Nuclear Power Station. It was determined, by a Technical Staff evaluation, that Dresden's motor (General Electric 3HP, part number 5K182AL 2591) would be acceptable for temporary use as the Unit 2 HPCI room cooler fan motor until a suitable replacement can be purchased. The fan motor was replaced under Work Request Q40277. Work Request Q40456 was written to clean, inspect, and repair the grounded motor. Before all the required

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

Corrective Action (continued)

surveillances could be completed, the grounded fan motor was removed and replaced. HPCI was declared operable and returned to service at 6 a.m., on February 9, 1985. The required surveillances on the Residual Heat Removal (BO), Core Spray (BM), and RCIC (BN) were completed.

This is the first incident of a HPCI room cooler motor failing at Quad-Cities Station.



Commonwealth Edison

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NJK-85-71

March 4, 1985

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) 85-004, 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 reporting of any event or condition that alone could have prevented the fulfillment of the safety functions of systems that are needed to mitigate the consequences of an accident.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

L. J. Germer for
N. J. Kalivianakis
Station Superintendent

NJK:HQD/bb

Enclosure

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

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