



Commonwealth Edison
Quad-Cities Nuclear Power Station
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NJK-75-275

May 13, 1975

Director of Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: Quad-Cities Nuclear Power Station
Docket No. 50-254, DPR-29
Appendix A, Sections 3.5.E.1, 3.5.E.2, 3.5.E.3, 6.6.B.1.a

Enclosed please find Abnormal Occurrence Report No. AO 50-254/75-13 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Directorate of Regulatory Operations by telephone on May 8, 1975 and to you and Region III, Directorate of Regulatory Operations by telecopy on May 8, 1975.

This report is submitted to you in accordance with the requirements of Technical Specification 6.6.B.1.a.

Very truly yours,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

N. J. Kalivianakis
Station Superintendent

NJK/JCV/lk

cc: Region III, Directorate of Regulatory Operations
J. S. Abel

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REPORT NUMBER: AO 50-254/75-13

REPORT DATE: May 14, 1975

OCCURRENCE DATE: May 8, 1975

FACILITY: Quad-Cities Nuclear Power Station
Cordova, Illinois 61242

IDENTIFICATION OF OCCURRENCE:

Unit 1 HPCI system inoperable.

CONDITIONS PRIOR TO OCCURRENCE:

Unit 1 operating at 527 MWe and increasing load at 3 MWe/hr for fuel pre-conditioning. The RCIC system was out-of-service at the time.

DESCRIPTION OF OCCURRENCE:

At 5:20 a.m. on May 8, 1975, during an RCIC outage surveillance test of the HPCI system, in accordance with Technical Specification 3.5.E.2, it was found that the HPCI motor speed changer would not operate. The requirements of Technical Specifications 3.5.E.1 and 3.5.E.2 could no longer be met and an orderly shutdown of Unit 1 was initiated at the rate of 12 MWe/hr.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Equipment Failure: The apparent cause of this occurrence is attributed to equipment failure. An investigation by the electrical maintenance department yielded no obvious reason for this failure.

ANALYSIS OF OCCURRENCE:

The safety implications of this occurrence are minimized because the automatic blowdown system was operable and capable of reducing reactor pressure so that the core spray and RHR systems could perform. There were no effects on the health and safety of the public related to this occurrence.

CORRECTIVE ACTION:

The immediate corrective action in response to this occurrence was to initiate an orderly shutdown of Unit 1 reactor in accordance with Technical

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Specification 3.5.E.3. A work request, number 1653-75, was issued to investigate and repair the HPCI motor speed changer. During the investigation the motor speed changer motor was removed from its mounting, and while still electrically connected, was found to operate. The motor speed changer gear mechanism was manually operated and found to move freely. The motor was replaced in its mounting and was repeatedly operated without any re-occurrence of the previous problem. It was retested on May 14, 1975 and no problems were found.

FAILURE DATA:

Occurrence AO 50-254/74-22, HPCI system inoperable due to motor speed changer failure, is the only other failure of the motor speed changer. The failure (motor burnup) resulted in changing the source of the 125 V DC power supply to the HPCI motor speed changers.

Motor name plate data:

MANUFACTURER: General Electric
MODEL NUMBER: 5BC26AC389/totally enclosed
0.10 HP @ 5160 RPM, 125 V DC, 0.91 AMP FULL LOAD
and 18.9 AMP LOCKED ROTOR SHUNT WOUND