

# LICENSEE EVENT REPORT

CONTROL BLOCK:

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME 01 ILQAD2										LICENSE NUMBER 00-000000-00										LICENSE TYPE 41111					EVENT TYPE 01			
CATEGORY 01 CONT										REPORT TYPE DI		REPORT SOURCE T		DOCKET NUMBER 000-000005					EVENT DATE 08-07-75					REPORT DATE 09-09-75				

**EVENT DESCRIPTION**

02 DURING ROUTINE MONTHLY SURVEILLANCE TESTING OF THE																																																																															
03 RCIC SYSTEM, THE RCIC TURBINE KEPT TURNING AT 3500 RPM,																																																																															
04 THUS LIMITING RCIC PUMP DISCHARGE PRESSURE. HPCI WAS																																																																															
05 THEN TESTED AND FOUND TO BE INOPERABLE. CAR, LPCI, AND																																																																															
06 AUTO FLOWDOWN WERE OPERABLE. A UNIT SHUTDOWN WAS INITIATED.																																																																															

SYSTEM CODE 07 CE										CAUSE CODE E		COMPONENT CODE MECFNN										PRIME COMPONENT SUPPLIER N		COMPONENT MANUFACTURER T1147										VIOLATION N	
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**CAUSE DESCRIPTION**

08 THE WEARING OF A NUT IN THE OVERSPEED TRIP MECHANISM																																																																															
09 CAUSED THE TRIP AND LIMITED THE TURBINE SPEED TO 3500 RPM.																																																																															
10																																																																															

FACILITY STATUS 11 E										% POWER 060										OTHER STATUS NA										METHOD OF DISCOVERY 13										DISCOVERY DESCRIPTION NA									
FORM OF ACTIVITY RELEASED 12 Z										CONTENT OF RELEASE Z										AMOUNT OF ACTIVITY NA										LOCATION OF RELEASE NA																			

**PERSONNEL EXPOSURES**

NUMBER 13 000										TYPE Z		DESCRIPTION NA									
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**PERSONNEL INJURIES**

NUMBER 14 000										DESCRIPTION NA									
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**OFFSITE CONSEQUENCES**

15 NA																																																																															
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**LOSS OR DAMAGE TO FACILITY**

TYPE 16 Z										DESCRIPTION NA									
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**PUBLICITY**

17 NA																																																																															
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**ADDITIONAL FACTORS**

18 EVENT DESCRIPTION (CONT.): THE TRIP MECHANISM NUT																																																																															
19 WAS DISASSEMBLED AND REPAIRED. (AO-50-265/75-34)																																																																															

NAME: PREPARED BY: LARRY L. HENSON PHONE: 309-654-2241

REPORT NUMBER: AO 50-265/75-34

REPORT DATE: September 9, 1975

OCCURRENCE DATE: August 30, 1975

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

IDENTIFICATION OF OCCURRENCE:

During routine monthly surveillance testing of the reactor core isolation cooling (RCIC) system, the RCIC turbine kept tripping at 3500 RPM, thus limiting RCIC pump flow output to 350 GPM.

CONDITIONS PRIOR TO OCCURRENCE:

Unit 2 was operating steady state at 506 MWe.

DESCRIPTION OF OCCURRENCE:

On August 30, 1975, while performing monthly RCIC surveillance testing, the RCIC turbine kept tripping at 3500 RPM. This prevented the RCIC system from pumping 400 gpm as required by the Technical Specification. Immediately the high pressure coolant injection (HPCI) system was tested for operability. HPCI was also found to be inoperable (AO 50-265/75-35). A unit shutdown was commenced in accordance with the Technical Specifications.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Equipment Failure - The reason for the 3500 RPM RCIC turbine trip was the wearing of a nut in the mechanical overspeed trip mechanism. The face of the nut, which contacts a lever, had worn sufficiently to give the premature overspeed trip.

ANALYSIS OF OCCURRENCE:

The RCIC turbine overspeed trip did not render the RCIC system completely inoperable, but rather, limited the RCIC pump discharge pressure. The core spray system, low pressure coolant injection (LPCI) mode of the residual heat removal (RHR) system, and the automatic pressure relief system were operable, the safety implications are minimized due to the availability of these systems.

CORRECTIVE ACTION:

The immediate corrective action was to test the HPCI system. Since this system was also found inoperative, a unit shut down was initiated.

Corrective action to prevent reoccurrence was to repair the emergency tappet nut associated with the mechanical overspeed trip. The emergency tappet nut was repaired on work request #3334-75. The RCIC system was returned to service and proven operable on September 5, 1975 at 7:45AM.

FAILURE DATA:

There has been no previous failure of the RCIC mechanical overspeed trip system. Therefore there are no safety implications based on cumulative experience.



Commonwealth Edison  
Quad-Cities Nuclear Power Station  
Post Office Box 216  
Cordova, Illinois 61242  
Telephone 309/654-2241

HJK-75-457

September 9, 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. 50-265, DPR-30, Unit 2  
Appendix A, Sections 1.0.A.4, 3.5.E.1, 6.6.B.1.a

Enclosed please find Abnormal Occurrence Report No. 50-265/75-34 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Office of Inspection and Enforcement by telephone on August 30, 1975 and to you and Region III, Office of Inspection and Enforcement by telecopy on August 31, 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/LLH/vmb

cc: Region III, Office of Inspection and Enforcement  
G. A. Abrell