

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 1 L Q A D 2 0 0 0 - 0 0 0 - 0 0 0 3 4 1 1 1 4 5  
3 9 LICENSE CODE 14 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT LR

CONT

0 1 REPORT SOURCE L 0 5 0 0 0 2 6 5 7 0 2 2 3 7 9 3 0 3 1 2 7 9 9  
8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 While operating Unit Two at a steady state load, the 2A Recirculation Motor Generator  
0 3 field breaker opened. When the MG Set generator field breaker opened, the 2A  
0 4 Recirculation pump coasted down to zero speed causing a flow mismatch (T.S. 3.6.H.).  
0 5 The 2B Recirculation pump speed was immediately reduced to minimize flow mismatch.  
0 6 There were no safety implications due to this occurrence.

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0 8

0 3 SYSTEM CODE C B 11 CAUSE CODE E 12 CAUSE SUBCODE B 13 COMPONENT CODE M E C F U N 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16  
17 LER NO REPORT NUMBER 7 9 21 22 SEQUENTIAL REPORT NO. 0 0 5 24 26 OCCURRENCE CODE 0 3 28 29 REPORT TYPE L 30 31 REVISION NO. 0 32  
ACTION TAKEN B 18 FUTURE ACTION E 19 EFFECT ON PLANT B 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 3 22 23 ATTACHMENT SUBMITTED Y 23 41 NPD 4 FORM SUB. N 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER G O B 26  
33 34 35 36 37 40 41 42 43 44 47

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 An investigation of the field breaker trip revealed that the Recirculation MG Set  
1 1 tachometer coupling to the main shaft had come loose. The tachometer coupling was  
1 2 repaired and the 2A Recirculation MG Set restarted. Once restarted a dynamic analysis  
1 3 was performed on the tachometer to MG Set coupling. Work request 1264-79 has been  
1 4 written to adjust the alignment during the next convenient outage.

1 5 FACILITY STATUS E 28 % POWER 0 9 7 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operational Event 32  
8 9 10 11 12 13 44 45 46 80

1 6 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36  
8 9 10 11 12 13 44 45 46 80

1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39  
8 9 10 11 12 13 44 45 46 80

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41  
8 9 10 11 12 13 44 45 46 80

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43  
8 9 10 11 12 13 44 45 46 80

2 0 PUBLICITY DESCRIPTION N 44 7903280836 NRC USE ONLY  
8 9 10 11 12 13 44 45 46 80

NAME OF PREPARER M. Reed

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- I. LER NUMBER: LER/RO 79-05/03L-0
- II. LICENSEE NAME: Commonwealth Edison Company  
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit Two
- IV. DOCKET NUMBER: 050-265
- V. EVENT DESCRIPTION:

On February 23, 1979 at 5:40 a.m., while operating Unit Two at a steady state load of 773 MWe, the 2A Recirculation Motor Generator field breaker opened. The Unit Operator immediately reduced the 2B Recirculation Pump to 45% of full flow, and the unit stabilized at 325 MWe. An attempt was made to restart the 2A Recirculation MG Set but an incomplete sequence alarm was received. Work Request 1002-79 was immediately written to investigate and repair the problem. This investigation revealed a loose tachometer coupling which caused the field breaker to open.

A similar event occurred on October 13, 1977 and was reported in RO 77-34/03L.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

When the MG Set generator field breaker opened, the 2A Recirculation Pump coasted down to zero speed causing reactor power to decrease. Since the 2B Recirculation Pump speed was reduced to 45% immediately, there were no safety implications due to this occurrence.

VII. CAUSE:

An investigation of the field breaker trip revealed that the Recirculation MG Set tachometer coupling to the main shaft had come loose due to vibration. The excessive vibration is believed to be caused by misalignment of the tachometer to the main generator shaft.

VIII. CORRECTIVE ACTION:

The immediate corrective action was to runback the 2B Recirculation Pump flow. The tachometer coupling was repaired and the 2A Recirculation MG Set restarted at 8:30 a.m. on February 23. Once the MG set was restarted a dynamic analysis was performed on the tachometer to MG set coupling. This analysis indicated that an alignment adjustment will be necessary. Work request 1264-79 has been written to properly align the tachometer during the next convenient outage.