

LICENSEE EVENT REPORT

CONTROL BLOCK: \_\_\_\_\_ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 I L Z I S I 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 \_\_\_\_\_ 5  
7 8 9 14 15 25 26 30 37 57 CAT 58

CON'T  
0 1 REPORT SOURCE L 6 0 5 0 0 0 2 9 5 7 1 2 2 8 8 2 3 0 1 1 0 8 3 9  
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 During periodic testing, Unit 1 hydrogen recombiner failed to  
0 3 reach required temperature. The redundant recombiner ( Unit 2 )  
0 4 failed its operability test. These failures violate TS 3.8.8.B.  
0 5 Both Unit 1 and 2 Hydrogen Purge Systems were operable. Because  
0 6 of the short time both recombiners were inoperable, the health  
0 7 and safety of the public were not affected. LER 50-295/77-94  
0 8 was written for previous UI failure. \_\_\_\_\_ 9

0 9 SYSTEM CODE S E 11 CAUSE CODE E 12 CAUSE SUBCODE A 13 COMPONENT CODE R E C O M B 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16  
7 8 9 10 11 12 13 18 19 20  
17 LER/RO REPORT NUMBER 8 2 21 EVENT YEAR 22 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NFRD-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER A 25 COMPONENT MANUFACTURER A 5 8 0 26  
7 8 9 10 11 12 13 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 The Unit 2 recombiner failed because power leads to SCR power  
1 1 control were loose. Leads were cleaned and tightened; recombiner  
1 2 passed operability test less than 2 hours after failure. Unit 1  
1 3 power controller transformer failed. Failed part was replaced  
1 4 and recombiner declared operable within 2 days. Failure mechanism is  
being investigated. \_\_\_\_\_ 80

1 5 FACILITY STATUS E 28 % POWER 0 8 0 29 OTHER STATUS NA. 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION operability test, PT-15c 32  
7 8 9 10 12 13 44 45 46 80

1 6 ACTIVITY CONTENT Z 33 RELEASED OF RELEASE Z 34 AMOUNT OF ACTIVITY NA. 35 LOCATION OF RELEASE NA 36  
7 8 9 10 11 44 45 80

1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N.A. 39  
7 8 9 10 11 12 13 80

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N.A. 41  
7 8 9 10 11 12 80

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N.A. 43  
7 8 9 10 80

2 0 PUBLICITY N 44 DESCRIPTION N.A. 45 PDR 8301180143 830110 PDR ADOCK 05000295 S PDR  
7 8 9 10 80

NAME OF PREPARER Steve Petrowski PHONE (312) 746-2084

ATTACHMENT TO LER  
No. 82-049/03 L - O  
COMMONWEALTH EDISON CO.  
ZION GENERATING STATION  
50-295

Description of Event

During periodic testing, the Unit 1 Hydrogen recombiner was declared inoperable when the recombiner failed to reach the required temperature. Tech Spec. 3.8.8.B requires two operable recombiners whenever the reactor is critical. Tech Spec. 4.2.8.B requires the remaining system to be demonstrated operable. Unit 2 hydrogen recombiner also failed its operability test and was declared inoperable.

Approximately one hour after Unit 2 hydrogen recombiner had failed its operability test, the Unit 2 recombiner had been repaired and tested, and demonstrated operable.

Consequences of Occurrence

If post LOCA conditions had been incurred with hydrogen present in containment, the hydrogen purge fans (Units 1 and 2) would have been available for service, as well as the Unit 2 recombiner which was repaired within one hour. Therefore, a H<sub>2</sub> release within containment would have been mitigated.

Cause of Occurrence

The Unit 1 recombiner did not reach the required temperature due to a failure of the main heater control system. An open winding in the zero fire module transformer (T-T1108) prevented the proportional control circuit from working.

The Unit 2 recombiner failed because 5 of 6 terminals on the power leads to the SCR power controller were loose this caused the power lead to overheat.

### Corrective Actions

Unit 1 Transformer (T-T1108) was replaced; this was the second failure of this type (LER 50-295/77-94).

AIR 83-01 has been issued to track and update the failure mechanism along with the future corrective action.

Unit 2, the loose power leads were tightened and melted insulation removed. Additionally, the power leads on Unit 1 were checked for integrity.