

# LICENSEE EVENT REPORT

CINTULA

14B  
5/5

CONTROL BLOCK: 031172151

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 M 0 C C N 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5  
9 LICENSE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

1 L 0 5 0 0 0 3 1 8 7 0 3 0 5 8 1 8 0 4 0 3 8 1 9  
8 REPORT SOURCE 62 61 DOCKET NUMBER 68 63 EVENT DATE 74 75 REPORT DATE 80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

At 2000 during a routine test, it was discovered that 4KV Buses 21 and  
24 ESFAS degraded voltage relays were out of calibration (T.S. 3.3.2.1).  
The trip setpoints were immediately readjusted to the correct value.  
None of the degraded voltage relays were required to operate since their  
last setpoint verification, therefore the safety of the public was not  
affected. This is not a repetitive occurrence.

SYSTEM CODE 9 E B 11 CAUSE CODE 11 X 12 CAUSE SUBCODE 12 Z 13 COMPONENT CODE 14 R E L A Y X 18 COMP. SUBCODE 19 J 15 VALVE SUBCODE 20 Z 16  
LER/RO REPORT NUMBER 17 8 11 EVENT YEAR 21 8 11 SEQUENTIAL REPORT NO. 24 0 1 1 4 OCCURRENCE CODE 28 0 3 REPORT TYPE 30 L REVISION NO. 32 0  
ACTION TAKEN 33 E 18 FUTURE ACTION 34 E 19 EFFECT ON PLANT 35 Z 20 SHUTDOWN METHOD 36 Z 21 HOURS 37 0 0 0 0 ATTACHMENT SUBMITTED 41 Y 23 NRC-4 FORM SUB. 42 N 24 PRIME COMP. SUPPLIER 43 L 25 COMPONENT MANUFACTURER 47 R 3 3 5 26

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The degraded voltage relays (4 relays for each of the 2 protected buses)  
were found to trip at a higher value than that allowed by T.S., but not  
high enough to cause spurious undervoltage trips. No cause has been  
found. The time response setpoints were in specified tolerance. The  
relays are being tested at an increased surveillance frequency.

FACILITY STATUS 8 D 28 % POWER 10 0 0 0 0 29 OTHER STATUS 30 NA METHOD OF DISCOVERY 45 B 31 DISCOVERY DESCRIPTION 32 Surveillance Test  
ACTIVITY CONTENT 8 Z 33 RELEASED OF RELEASE 10 Z 34 AMOUNT OF ACTIVITY 35 NA LOCATION OF RELEASE 36 NA  
PERSONNEL EXPOSURES 11 0 0 0 37 TYPE 12 Z 38 DESCRIPTION 39 NA  
PERSONNEL INJURIES 11 0 0 0 40 DESCRIPTION 41 NA  
LOSS OF OR DAMAGE TO FACILITY 11 Z 42 TYPE 12 NA DESCRIPTION 43  
PUBLICITY 11 N 44 DESCRIPTION 45 NA  
ISSUED 11 N 44

NRC USE ONLY  
1523  
(301) 260-4747/4746

LER NO. 81-14/3L  
DOCKET NO. 50-318  
LICENSE NO. DPR-69  
EVENT DATE 03-05-81  
REPORT DATE 04-03-81  
ATTACHMENT

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (CONT'D)

The degraded voltage relays (RIS No. PR-2035-PI-TI) monitor Nos. 21 and 24 4 KV Buses. There are 4 relays per bus, each with output contacts wired to one of 4 Engineered Safety Features Actuation System (ESFAS) undervoltage sensing bistables. The ESFAS actuates on a 2 of 4 channels trip condition. The relays, 127/B devices, have adjustable low voltage and response time setpoints. The low voltage setpoint was found to be high out of tolerance on all eight devices. T.S. allows a trip to occur at a sustained voltage in the range of 3603 VAC to 3653 VAC. The eight relays were found to trip at various levels from 3720.5 VAC to 3864 VAC.

A retest of the relays in both Units at Calvert Cliffs has been performed. All relays (16) were found in tolerance. Unit 1 relays were surveillance tested in November, 1980 and retested on March 24, 1981. Unit 2 relays were retested on March 25, 1981.

Investigation to date has disclosed no cause for the out of tolerance condition. Before March 5, 1981, the Unit 2 relays were tested in February, 1981 as part of a routine refueling cycle surveillance test. Questions raised concerning the recorded data and selected test equipment resulted in a retest of the Unit 2 relays on March 5, 1981. During the February test no adjustments were made.

The last previous Unit 2 surveillance test had been performed in November, 1979. At that time, the relays were found in tolerance and no adjustments were made. The relays installed in Units 1 and 2 will be tested in 3-month intervals until September 1981 to verify their operation without drift. If no further evidence of voltage setpoint drift occurs, the increased surveillance will be terminated. Should evidence of drift be found, the relays' surveillance frequency will be increased permanently while further measures are evaluated, such as facility changes to replace the relays.