## LICENSEE EVENT REPORT

LICENSEE EVENT HEFORT
CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
0 1 M I D C C 1 2 0 0 0 0 0 0 0 0 0 0 3 4 1 1 1 1 1 4 5 6 7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58
CON'T    O   1   SOURCE   L   O   O   O   O   O   O   O   O   O
DURING SURVEILLANCE TESTING IN MODES 5 AND 6, IT WAS DISCOVERED THAT THREE 4KV BUS
DEGRADED GRID VOLTAGE RELAYS HAD EXCEEDED THE TOLERANCE ALLOWED BY TECHNICAL SPECIFI-
CATION TABLE 3.3-4 ITEM 8.6 AND THAT EIGHT 4KV BUS LOSS OF VOLTAGE RELAYS HAD EXCEEDED
THE TOLERANCE ALLOWED BY TECHNICAL SPECIFICATION TABLE 3.3-4 ITEM 3.a. PREVIOUS
OCCURRENCES INCLUDE: 50-316/81-15.
07
08
SYSTEM CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCOD
17) REPORT   8   1   -     0   1   7     0   3     L   -   0   0   0   0   0   0   0   0   0
ACTION FUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT NPRD-4 PRIME COMP. COMPONENT MANUFACTURER  E 18 X 19 Z 20 Z 21 0 0 0 0 0 Y 23 Y 24 N 25 G 0 8 0 26  CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
[ INVESTIGATION REVEALED THAT THE DEGRADED GRID VOLTAGE RELAYS ACTUATED AT THE FOLLOWING ]
VOLTAGES; RELAY 27-T11A-2 AT 3577 VOLTS, RELAY 27-T11D-1 AT 3626 VOLTS AND RELAY
27-T11D-2 AT 3710 VOLTS. THESE VOLTAGES EXCEEDED THE TOLERANCE ALLOWED BY TECHNICAL
SPECIFICATION OF 3596 VOLTS PLUS OR MINUS 18 VOLTS. THE DIESEL START AND LOAD SHEDDING
RELAYS ACTUATED AT THE FOLLOWING VOLTAGES; RELAY 27-1711A AT 3175 VOLTS, RELAY
7 8 9 FACILITY STATUS SPOWER OTHER STATU: 30 METHOD OF DISCOVERY DESCRIPTION 32  1 5 H 28 0 0 0 0 29 NA B 3 SURVEILLANCE TEST  30 METHOD OF DISCOVERY DESCRIPTION 32  50 SURVEILLANCE TEST  80 SURVEILLANCE TEST
7 8 9 10 12 13 44 45 15 10 CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 NA
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39  1 7 0 0 0 37 Z 38 NA
7 8 9 11 12 13 PERSONNEE INJURIES NUMBER DESCRIPTION (41) NA
1 8 9 11 12 80  LOSS OF OR DAMAGE TO FACILITY (43)
TYPE DESCRIPTION NA NA
PUBLICITY NRC USE ONLY ISSUED DESCRIPTION 45
8107140377 810703 P. A. DALMED 616-465-5001
PDR ADOCK 05000315 R. A. PALMER PHONE 616-465-5901

## SUPPLEMENT TO LER #81-017/03L-0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (cont.)

27-3T11A AT 3238 VOLTS, RELAY 27-2T11B AT 3164, RELAY 27-3T11B AT 3220 VOLTS, RELAY 27-2T11C AT 3227 VOLTS, RELAY 27-3T11C AT 3234 VOLTS, RELAY 27-1T11D AT 3238 AND RELAY 27-3T11D AT 3105 VOLTS. THESE VOLTAGES EXCEEDED THE TOLERANCE ALLOWED BY TECHNICAL SPECIFICATION OF 3196 VOLTS PLUS OR MINUS 18 VOLTS. THE RELAYS WERE ADJUSTED TO WITHIN ALLOWABLE LIMITS. THESE RELAYS ARE MANUFACTURED BY GENERAL ELECTRIC, MODEL NGV13. AN ENGINEERING REVIEW IS IN PROGRESS TO EVALUATE THE TECHNICAL SPECIFICATION TOLERANCES AND TYPE OF RELAY USED.