

LICENSEE EVENT REPORT

CONTROL BLOCK: \_\_\_\_\_ (1) (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 0 0 3 4 1 1 1 1 4 5  
7 8 9 14 15 25 26 30 57 CAT 58

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 ON OCTOBER 3, IT WAS DISCOVERED THAT THE APDMS ACTUALLY ROUNDS OFF THE T (Z) (F<sub>Z</sub>)  
0 3 SETPOINT AS A FUNCTION OF CORE HEIGHT) CALCULATION USING INTERGER-ARITHMETIC  
0 4 RATHER THAN REAL ARITHMETIC. THIS ROUNDING OFF OF T (Z) HAS RESULTED IN THE F<sub>Z</sub>  
0 5 CALCULATIONS BEING NON-CONSERVATIVE IN THE TOP OF THE CORE. THE APPLICABLE T.S.  
0 6 ARE 3.2.6 AND FIGURE 3.2-2.

0 7  
0 8

0 9 I B 11 B 12 A 13 X X X X X X 14 X 15 Z 16  
7 8 9 10 11 12 13 18 19 20

17 LER/RO REPORT NUMBER 7 8  
EVENT YEAR 7 8  
SEQUENTIAL REPORT NO. 0 5 8  
OCCURRENCE CODE 0 3  
REPORT TYPE L  
REVISION NO. 0

ACTION TAKEN X 18 X 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 0  
ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER W 1 2 0 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 INVESTIGATION REVEALED THAT, DUE TO THIS ROUNDING OFF OF REAL VALUES TO INTERGER-  
1 1 VALUES, THE APDMS ESSENTIALLY PERFORMS A STAIRSTEP COMPARISON TO THE F<sub>Z</sub> LIMIT IN  
1 2 THE TOP ONE-HALF OF CORE HEIGHT. THEREFORE, IN ORDER TO INSURE THAT THE LIMITS IN  
1 3 APDMS ARE CONSERVATIVE IN RESPECT TO T.S., AN ADDITIONAL PENALTY OF 0.01 HAS BEEN  
1 4 TAKEN BY LOWERING THE APDMS SETPOINTS. SEE SUPPLEMENT.

1 5 E 28 1 0 0 29 NA 30 C 31 RESEARCH SYSTEM FUNCTIONS 32  
7 8 9 10 11 12 13 14 44 45 46 80

1 6 Z 33 Z 34 NA 35 NA 36  
7 8 9 10 11 44 45 80

1 7 0 0 0 37 Z 38 NA 39  
7 8 9 10 11 12 13 80

1 8 0 0 0 40 NA 41  
7 8 9 10 11 12 80

1 9 Z 42 NA 43  
7 8 9 10 80

2 0 N 44 NA 45  
7 8 9 10 80

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ATTACHMENT TO LER# 78-058/03L-0

SUPPLEMENT TO CAUSE DESCRIPTION

THE F<sub>(2)</sub> SETPOINT HAS REFLECTED THE ADDITIONAL 0.01 PENALTY SINCE 9-20-78, WHILE AWAITING CONCLUSIVE RESEARCH FROM THE AMERICAN ELECTRIC POWER SERVICE CORPORATION, WHICH HAS SUBSEQUENTLY BEEN RECEIVED. THE ADDITIONAL PENALTY HAS NOW BEEN INCORPORATED INTO THE APPLICABLE PROCEDURE VIA TEMPORARY CHANGE SHEET. NO FURTHER ACTION IS PLANNED AT THIS TIME.