

LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 M I D C C 2 2 0 0 0 0 0 0 0 0 0 0 0 0 3 4 1 1 1 1 1 4 5
7 8 9 14 15 25 26 30 57 CAT 58
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE

CON'T

01 REPORT SOURCE L 6 0 5 0 0 0 3 1 6 7 0 3 2 6 8 2 8 0 4 2 3 8 2 9
60 61 68 69 74 75 80
 DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 DURING A SCHEDULED SURVEILLANCE TEST OF THE ICE CONDENSER BASKETS, THE MINIMUM
03 AVERAGE ICE WEIGHT OF SAMPLE BASKETS FROM RADIAL ROWS 8 AND 9 GROUP 2 WAS FOUND TO
04 BE LESS THAN 1220 POUNDS/BASKET AT A 95% LEVEL OF CONFIDENCE. THIS CONDITION WAS
05 NON-CONSERVATIVE WITH RESPECT TO TECHNICAL SPECIFICATION 4.6.5.1b-2.
06
07
08

09 SYSTEM CODE S A 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE Z Z Z Z Z Z 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
9 10 11 12 13 18 19 20
 LER/RO REPORT NUMBER 17 EVENT YEAR 8 2 21 22 SEQUENTIAL REPORT NO. 0 2 5 24 26 OCCURRENCE CODE 0 3 28 29 REPORT TYPE L 30 REVISION NO. 0 32
 ACTION TAKEN X 18 FUTURE ACTION X 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NRPD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z 9 9 9 9 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 ICE LOSS WAS CAUSED BY THE MIGRATION OF ICE MASS AWAY FROM THE CRANE WALL, WHICH
11 OCCURRED DUE TO TEMPERATURE GRADIENT INDUCED AIR CURRENTS. ICE MASS WAS ADDED TO THE
12 UNDERWEIGHT BASKETS TO BRING THEM WITHIN TECHNICAL SPECIFICATION LIMITS.
13 (SEE ATTACHED SUPPLEMENT)
14

15 FACILITY STATUS G 28 % POWER 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION SURVEILLANCE TEST 32
7 8 9 10 12 13 44 45 46 80
 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36
7 8 9 10 11 44 45 80
 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39
7 8 9 11 12 13 80
 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41
7 8 9 11 12 80
 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43
7 8 9 10 80
 PUBLICITY ISSUED N 44 DESCRIPTION NA 45
7 8 9 10 80

8204300268

NRC USE ONLY

NAME OF PREPARER R. A. PALMER

PHONE 465-5901

ATTACHMENT TO LER#82-025/03L-0

SUPPLEMENT TO CAUSE DESCRIPTION

THE MIGRATION OF ICE MASS AWAY FROM THE CRANE WALL OCCURRED DUE TO TEMPERATURE GRADIENT INDUCED AIR CURRENTS. THESE TEMPERATURE GRADIENTS ARE DUE TO THE PROXIMITY OF THE CRANE WALL TO THE STEAM GENERATORS. AS THIS MECHANISM WAS APPARENT FROM PREVIOUS DATA, SOME MIGRATION OF ICE MASS WAS EXPECTED. HOWEVER, THE MAGNITUDE WAS HIGHER THEN PREDICTED.

PRIOR TO ICE BASKET WEIGHING, A TOTAL OF 17 AIR HANDLER UNITS WERE INOPERABLE. 9 OF THE INOPERABLE AIR HANDLERS WERE IN GROUP 2, WITH 5 ALONG THE GROUP 2 CRANE WALL AND 4 ALONG THE GROUP 2 CONTAINMENT WALL. AS A RESULT OF THE LARGE NUMBER OF INOPERABLE AIR HANDLERS, PARTICULARLY IN THE GROUP 2 CRANE WALL AREA, THE MIGRATION LOSS WAS LARGER THEN EXPECTED IN THIS REGION. THE REASON FOR THE LARGE NUMBEF OF INOPERABLE AIR HANDLERS WAS DUE TO THE HIGH AIRBORNE RADIOACTIVITY CONCENTRATION IN CONTAINMENT WHICH, AS A RESULT OF ALARA PRACTICES, PREVENTED MAINTENANCE DURING UNIT OPERATION. ALL AIR HANDLERS WERE REPAIRED AND RETURNED TO SERVICE PRIOR TO THE UNIT STARTUP.

ICE MASS WAS ADDED TO THOSE BASKETS NOT MEETING TECHNICAL SPECIFICATION MINIMUM LIMITS. ICE WAS ADDED TO BOTH THE TOP AND BOTTOM OF THE BASKETS, REQUIRING SIGNIFICANT EFFORT IN DEVELOPING THE ICE ADDITION METHOD.

TO PREVENT RECURRENCE A PROGRAM HAS BEEN INSTITUTED TO MONITOR AIR HANDLER AND GLYCOL CHILLER PERFORMANCE DAILY. ANY DEGRADATION IN REFRIGERATION CAPACITY WILL BE IDENTIFIED AND CORRECTIVE ACTION TAKEN AS PERMITTED BY ALARA PRACTICES. FURTHERMORE, A TASK FORCE WILL BE FORMED TO REVIEW METHODS FOR FURTHER REDUCTION OF SUBLIMATION RATES IN ALL ROWS AND SPECIFICALLY THOSE NEAREST THE CRANE WALL. THIS TASK FORCE WILL ALSO EVALUATE REQUIRED ICE BASKET MINIMUM WEIGHT REQUIREMENTS AND REFINEMENT OF ICE MASS ADDITION TECHNIQUES.