

# LICENSEE EVENT REPORT

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

0 1 | M 1 D C C 2 | 0 0 - 0 0 0 0 - 0 0 | 4 1 1 1 1 | \_\_\_\_\_

7 8      9      14      15      25      26      57      58

LICENSEE CODE      LICENSE NUMBER      LICENSE TYPE      CAT 58

CON'T

0 1 | L | 0 5 0 0 0 3 1 6 | 0 9 1 8 8 2 | 1 0 0 5 8 2 |

7 8      60      61      68      69      74      75      80

REPORT SOURCE      DOCKET NUMBER      EVENT DATE      REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | FOLLOWING A REACTOR TRIP AT 1918 HOURS ON SEPTEMBER 18, 1982, THE REACTOR COOLANT

0 3 | SYSTEM (RCS) DOSE EQUIVALENT (DOSEQ) IODINE-131 CONCENTRATION EXCEEDED THE

0 4 | 1.0 µCi/gram STEADY STATE LIMIT OF TECHNICAL SPECIFICATION 3.4.8. THE IODINE

0 5 | LEVELS REMAINED IN EXCESS OF TECHNICAL SPECIFICATION LIMITS UNTIL 0500 HOURS

0 6 | ON SEPTEMBER 19, 1982. THE PUBLIC HEALTH AND SAFETY WERE NOT AFFECTED. PREVIOUS

0 7 | OCCURRENCES OF A SIMILAR NATURE INCLUDE: 50-315/76-059,78-026;50-316/81-049,

0 8 | 82-004,013,018,067,075.

0 9 | C | G | X | Z | Z | Z | Z | Z | Z | Z | Z | Z | Z |

7 8      9      10      11      12      13      14      15      16      17      18      19      20

SYSTEM CODE      CAUSE CODE      CAUSE SUBCODE      COMPONENT CODE      COMP. SUBCODE      VALVE SUBCODE

17 | 8 | 2 | - | 0 | 7 | 8 | / | 0 | 3 | L | - | 0 |

21      22      23      24      26      27      28      29      30      31      32

LER/RO REPORT NUMBER      EVENT YEAR      SEQUENTIAL REPORT NO.      OCCURRENCE CODE      REPORT TYPE      REVISION NO.

X | Z | Z | Z | 0 | 0 | 0 | 0 | Y | N | Z | Z | 9 | 9 | 9 |

33      34      35      36      37      40      41      42      43      44      47

ACTION TAKEN      FUTURE ACTION      EFFECT ON PLANT      SHUTDOWN METHOD      HOURS      ATTACHMENT SUBMITTED      NPRD-4 FORM SUB.      PRIME COMP. SUPPLIER      COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | ON SEPTEMBER 18, 1982, FOLLOWING A REACTOR TRIP, THE RCS DOSEQ-I-131 SPIKED TO A

1 1 | MAXIMUM OF 1.76 µCi/gram. PRIOR TO THE REACTOR TRIP, THE RCS DOSEQ-I-131 WAS

1 2 | AVERAGING  $9.5 \times 10^{-2}$  µCi/gram. (SEE ATTACHED SUPPLEMENT)

1 3 |

1 4 |

1 5 | G | 0 | 0 | 0 | NA | B | ROUTINE CHEMICAL ANALYSIS

7 8      9      10      12      13      44      45      46      80

FACILITY STATUS      % POWER      OTHER STATUS      METHOD OF DISCOVERY      DISCOVERY DESCRIPTION

1 6 | Z | Z | NA | NA

7 8      9      10      11      44      45      80

ACTIVITY CONTENT      RELEASED OF RELEASE      AMOUNT OF ACTIVITY      LOCATION OF RELEASE

1 7 | 0 | 0 | 0 | 3 | Z | NA

7 8      9      10      11      12      13      80

PERSONNEL EXPOSURES      NUMBER      TYPE      DESCRIPTION

1 8 | 0 | 0 | 0 | NA

7 8      9      10      11      12      13      80

PERSONNEL INJURIES      NUMBER      DESCRIPTION

1 9 | Z | NA

7 8      9      10      11      12      13      80

LOSS OF OR DAMAGE TO FACILITY      TYPE      DESCRIPTION

2 0 | N | 8210180129 821005 PDR ADOCK 05000316 S PDR

7 8      9      10      11      12      13      14      15      16      17      18      19      20      80

ISSUED DESCRIPTION      PUBLICITY      NRC USE ONLY

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ATTACHMENT TO LER# 82-078/03L-0

SUPPLEMENT TO CAUSE DESCRIPTION

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF APPENDIX A TECHNICAL SPECIFICATIONS 3.4.8 AND 6.9.1. ON SEPTEMBER 18, 1982, THE DOSE EQUIVALENT IODINE-131 ACTIVITY IN THE UNIT 2 REACTOR COOLANT SYSTEM WAS FOUND OUT OF SPECIFICATION.

AT 1918 HOURS ON SEPTEMBER 18, 1982, THE UNIT EXPERIENCED A REACTOR TRIP. LABORATORY ANALYSIS AT 2120 HOURS ON SEPTEMBER 18, 1982, INDICATED THE REACTOR COOLANT DOSE EQUIVALENT IODINE-131 CONCENTRATION HAD EXCEEDED THE TECHNICAL SPECIFICATION LIMITS OF 1.0  $\mu\text{Ci}/\text{gram}$ . \*THE DOSE EQUIVALENT IODINE-131 ACTIVITY SPIKED TO A MAXIMUM OF 1.76  $\mu\text{Ci}/\text{gram}$  AT THIS TIME. THE REACTOR COOLANT SYSTEM DOSE EQUIVALENT IODINE REMAINED ABOVE TECHNICAL SPECIFICATION LIMITS UNTIL 0500 HOURS ON SEPTEMBER 19, 1982.

AT 2313 HOURS ON SEPTEMBER 18, 1982, THE REACTOR WAS AGAIN TAKEN CRITICAL AND POWER ASCENSION STARTED. A SECOND REACTOR TRIP OCCURRED AT 0417 HOURS ON SEPTEMBER 20, 1982, AT APPROXIMATELY 18% POWER. THE UNIT WAS AGAIN TAKEN CRITICAL AT 0916 HOURS ON SEPTEMBER 20, 1982. A THIRD REACTOR TRIP OCCURRED AT 1054 HOURS ON SEPTEMBER 20, 1982, AT APPROXIMATELY 12% POWER. RCS DOSEQ-I-131 SPIKED AFTER EACH REACTOR TRIP, BUT DID NOT EXCEED THE 1.0  $\mu\text{Ci}/\text{gram}$  TECHNICAL SPECIFICATION LIMIT. CVCS LETDOWN PURIFICATION FLOW WAS MAINTAINED THROUGHOUT THE TRANSIENTS. ALL SUBSEQUENT DOSE EQUIVALENT IODINE ANALYSIS INDICATED DECREASING LEVELS OF IODINE. IODINE RELEASE AT THIS TIME PERIOD IS CONSISTENT WITH DATA REPORTED IN WESTINGHOUSE ELECTRIC CORPORATION WCAP-8637, "IODINE BEHAVIOR UNDER TRANSIENT CONDITIONS IN THE PRESSURIZED WATER REACTOR". DOSE EQUIVALENT IODINE-131 VALUES WERE IN THE "ACCEPTABLE OPERATION" PORTION OF TECHNICAL SPECIFICATION FIGURE 3.4-1 AT

ALL TIMES DURING THE TRANSIENT. ALL APPLICABLE TECHNICAL SPECIFICATION ACTION ITEMS WERE MET DURING THIS TIME.

FUEL BURNUP BY THE REGION AND ALL ADDITIONAL DATA, AS REQUIRED BY TECHNICAL SPECIFICATION 3.4.8, IS FOUND IN THE ATTACHMENTS.

\*COOLANT SAMPLES ARE BROUGHT TO AMBIENT CONDITIONS PRIOR TO COUNTING; THEREFORE, UNITS OF  $\mu\text{Ci}/\text{gram}$  AND  $\mu\text{Ci}/\text{cc}$  ARE CONSIDERED INTERCHANGEABLE.

HUMIDIFICATION SUMMARY SHEET

D. C. Cool Unit 2



UNIT NO. 2

CYCLE NO. 3

REPORT NO. 18C

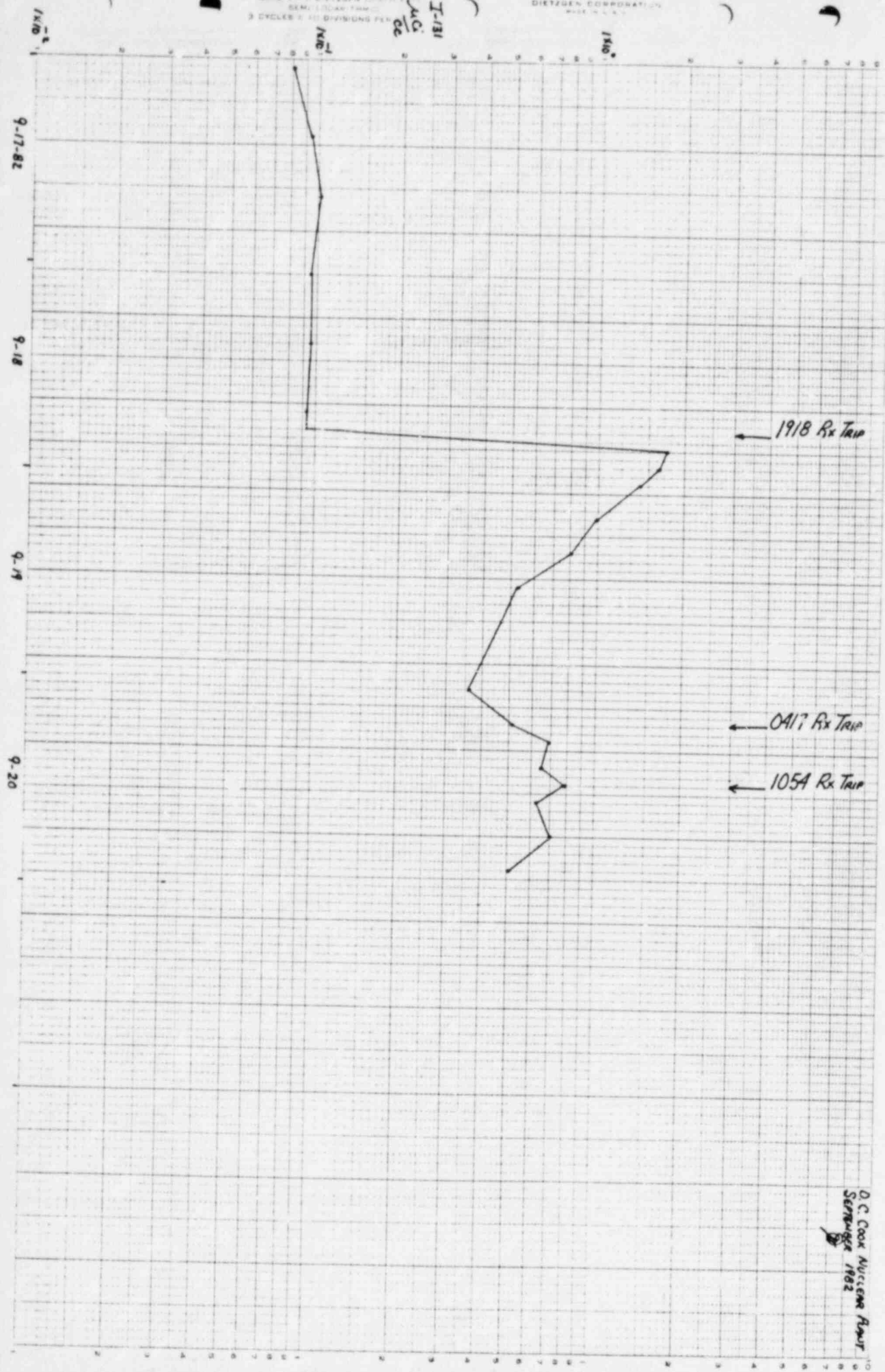
DATE SEPTEMBER 27, 1982

PERIOD 01 JUL 82 - 18 SEP 82

REGION NO	ENERGY FOR PERIOD (BTU)	CUMULATIVE RESERVOIR (BTU)	ENERGY FOR PERIOD (BTU)	CUMULATIVE ENERGY (BTU)
1	0.1728E+06	0.2541E+05	0.1050E+13	0.2017E+14
2	0.2446E+04	0.3013E+05	0.7490E+13	0.9071E+14
3	0.2427E+04	0.1562E+05	0.4374E+13	0.5392E+14
COEF TOTAL	0.2332E+04	0.2271E+05	0.1492E+14	0.1647E+15

I-31  
JuCi  
ce

UNIT 2 Reactor Count Down I-31 vs Time



O. C. Cook  
Nurses  
Sewage  
1982



