LICENSEE EVENT REPORT

CONTROL BLOCK (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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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 µCi/gram. *THE DOSE EQUIVALENT IODINE-131 ACTIVITY SPIKED TO A MAXIMUM OF 1.76 µCi/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 µCi/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 μCi/gram AND μCi/cc ARE CONSIDERED INTERCHANGEABLE.

BURNUP CALCULATION SUMMARY SHEET
D. C. COOK UNIT 2

UNIT NO. 2

CYCLE NO. 3

REPORT NO. 18C

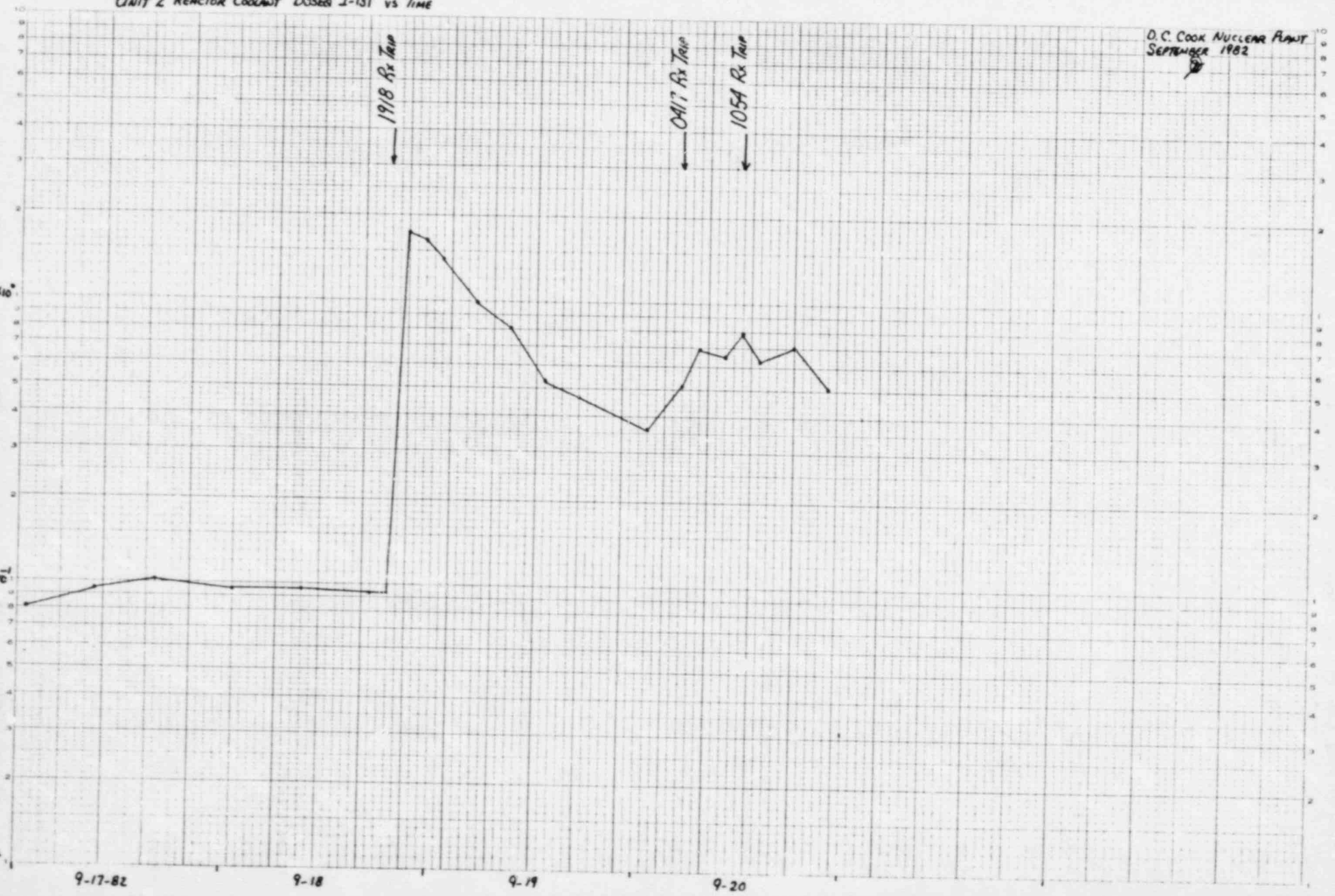
DATE SEPTEMBER 27, 1982

PERIOD 01JUL82-18SEP82

REGION NO	BURNUP FOR PERIOD (MWD/MTU)	CUMULATIVE BURNUP (MWD/MTU)	ENERGY FOR PERIOD (BTU)	CUMULATIVE ENERGY (BTU)
1	0.1726E+04	0.2541E+05	0.1050E+13	0.2012E+14
2	0.2446E+04	0.3613E+05	0.7490E+13	0.9071E+14
3	0.2427E+04	0.1562E+05	0.2378E+13	0.5392E+14
CORE TOTAL	0.2332E+04	0.2271E+05	0.1492E+14	0.1647E+15

UNIT 2 REACTOR COOLANT DOSE: I-131 vs TIME

D.C. COOK NUCLEAR PLANT
SEPTEMBER 1982



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