

ATTACHMENT TO LER# 82-075/03L-0

SUPPLEMENT TO CAUSE DESCRIPTION

THIS REPORT IS SUBMITTED PERSUANT TO THE REQUIREMENTS OF APPENDIX A TECHNICAL SPECIFICATIONS 3.4.8 AND 6.9.1. ON AUGUST 24, 1982, THE DOSE EQUIVALENT IODINE-131 ACTIVITY IN THE UNIT 2 REACTOR COOLANT SYSTEM WAS FOUND OUT OF SPECIFICATION.

AT 0841 HOURS ON AUGUST 24, 1982, A REACTOR TRIP OCCURRED AS A RESULT OF A FAILURE IN A 120 VOLT A.C. VITAL BUS (CRID IV). LABORATORY ANALYSIS AT 1100 HOURS ON AUGUST 24, 1982, INDICATED THE REACTOR COOLANT DOSE EQUIVALENT IODINE-131 CONCENTRATION HAD EXCEEDED THE TECHNICAL SPECIFICATION LIMITS OF 1.0 μ Ci/GRAM.* THE DOSE EQUIVALENT IODINE-131 ACTIVITY SPIKED TO A MAXIMUM OF 1.20 μ Ci/GRAM AT 1950 HOURS ON AUGUST 24, 1982. THE CVCS MIXED BED DEMINERALIZER WAS IN SERVICE PRIOR TO AND AFTER THE REACTOR TRIP. AT 2230 HOURS ON AUGUST 24, 1982, IT WAS NOTED THAT THE CVCS MIXED BED DEMINERALIZER HAD BEEN INADVERTENTLY REMOVED FROM SERVICE SOMETIME AFTER REACTOR STARTUP. UPON DISCOVERY OF THIS, THE CVCS MIXED BED DEMINERALIZER WAS RETURNED TO SERVICE AND COOLANT SYSTEM DOSEQ IODINE-131 VALUES SHOWED A DECREASING TREND. THE RCS DOSEQ IODINE REMAINED ABOVE TECHNICAL SPECIFICATION LIMITS UNTIL 0019 HOURS ON AUGUST 25, 1982. ALL SUBSEQUENT ANALYSIS INDICATED DOSEQ IODINE-131 BELOW SPECIFICATION AND DECREASING.

AT 1251 HOURS ON AUGUST 24, 1982, THE REACTOR WAS AGAIN TAKEN CRITICAL AND UNIT STARTUP COMMENCED. POWER WAS STEADILY INCREASED UNTIL THE UNIT WAS AT 100% POWER AT 2000 HOURS ON AUGUST 25, 1982. 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. THE IODINE RELEASE AT THIS TIME PERIOD IS CONSISTENT WITH DATA REPORTED IN WESTINGHOUSE ELECTRIC

SUPPLEMENT TO CAUSE DESCRIPTION (CONT'D)

CORPORATION WCAP-8637, "IODINE BEHAVIOR UNDER TRANSIENT CONDITIONS IN THE PRESSURIZED WATER REACTOR". 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.

BURNUP CALCULATION SUMMARY SHEET
 U. C. COO UNIT 2

UNIT NO. 2
 CYCLE NO. 3

REPORT NO. 188
 DATE SEPTEMBER 16, 1982
 PERIOD 01 JUL 82-24 AUG 82

REGION NO	BURNUP FOR PERIOD (MWDTU)	CUMULATIVE BURNUP (MWDTU)	ENERGY FOR PERIOD (RTU)	CUMULATIVE ENERGY (RTU)
1	0.7510E+03	0.7488E+05	0.6270E+12	0.1970E+14
2	0.1446E+04	0.2912E+05	0.4474E+13	0.8769E+14
3	0.1449E+04	0.1446E+05	0.5004E+13	0.5055E+14
COEF TOTAL	0.1303E+04	0.2177E+05	0.1010E+14	0.1579E+15

X

UNIT 2 REACTOR COOLANT DOSEQ I-131 VS TIME

D. C. COOK PLANT

Joseph

DIETZEN CORPORATION
MADE IN U.S.A.

DOSEQ
I-131
 $\mu\text{Ci}/\text{cc}$

NO. 3450 L310 DIETZEN CORP.
SERIAL 14401000
3 CYCLES X 1 DIVISIONS PER

$\times 10^{-2}$

$\times 10^0$

$\times 10^{-1}$



MAX = 1.20 $\mu\text{Ci}/\text{cc}$



8-24-82

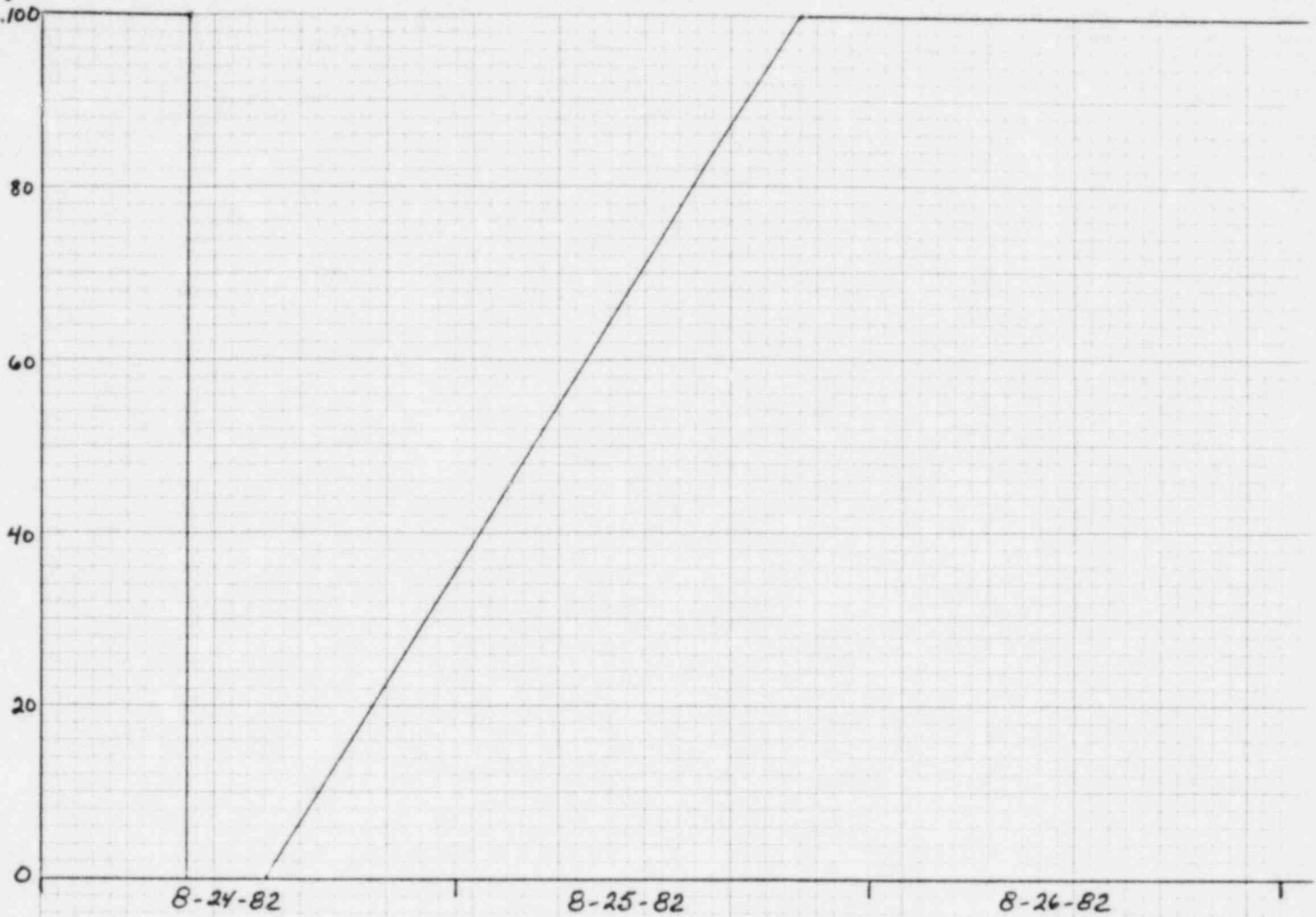
8-25-82

8-26-82

DIETZGEN CORPORATION
MADE IN U.S.A.

NO. 3410-10 DIETZGEN GRAPH PAPER
10 X 10 PER INCH

LETDOWN
GPM



UNIT 2 D.C. COOK PLANT *Joyal*

