

# LICENSEE EVENT REPORT

CONTROL BLOCK

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	M	1	D	C	C	2	2	0	0	-	0	0	0	0	-	0	0	3	4	1	1	1	1	4	5	
LICENSEE CODE								LICENSE NUMBER								LICENSE TYPE								CAT		58	

0	1	L	6	0	5	0	0	0	3	1	6	7	0	9	1	8	8	2	8	1	0	0	5	8	2	9																					
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  $\mu$ Ci/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	11	X	12	Z	13	Z	Z	Z	Z	Z	Z	14	Z	15	Z	16								
SYSTEM CODE				CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE								COMP. SUBCODE		VALVE SUBCODE									
17		EVENT YEAR		21		22		23		24		25		26		27		28		29		30		31		32	
LER/RO REPORT NUMBER		8		2		-		0		7		8		-		0		3		L		-		0		-	
ACTION TAKEN		X		18		Z		19		Z		20		Z		21		0		0		0		0		22	
FUTURE ACTION		Z		19		Z		20		Z		21		Z		22		Y		23		N		24		Z	
EFFECT ON PLANT		Z		20		Z		21		Z		22		Z		23		N		24		Z		25		Z	
SHUTDOWN METHOD		Z		21		Z		22		Z		23		Z		24		N		24		Z		25		Z	
HOURS		0		0		0		0		0		0		0		0		Y		23		N		24		Z	
ATTACHMENT SUBMITTED		Y		23		N		24		Z		25		Z		26		Z		27		Z		28		Z	
NPRD-4 FORM SUB.		N		24		Z		25		Z		26		Z		27		Z		28		Z		29		Z	
PRIME COMP. SUPPLIER		Z		25		Z		26		Z		27		Z		28		Z		29		Z		30		Z	
COMPONENT MANUFACTURER		Z		26		9		9		9		9		9		9		9		9		9		9		9	

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  $\mu$ Ci/gram. PRIOR TO THE REACTOR TRIP, THE RCS DOSEQ-I-131 WAS

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

1 3 |

1 4 |

1	5	G	28	0	0	0	29	NA	30	B	31	DISCOVERY DESCRIPTION (32)																	
FACILITY STATUS				% POWER				OTHER STATUS				METHOD OF DISCOVERY				ROUTINE CHEMICAL ANALYSIS													
16		Z		33		Z		34		NA		35		NA		36		LOCATION OF RELEASE											
ACTIVITY CONTENT				AMOUNT OF ACTIVITY				LOCATION OF RELEASE				NA																	
17		0		0		0		37		NA		38		DESCRIPTION (39)															
PERSONNEL EXPOSURES				DESCRIPTION				NA																					
18		0		0		0		40		NA		41		DESCRIPTION (41)															
PERSONNEL INJURIES				DESCRIPTION				NA																					
19		Z		42		NA		43		DESCRIPTION (43)																			
LOSS OF OR DAMAGE TO FACILITY				DESCRIPTION				NA																					
20		N		44		NA		45		DESCRIPTION (45)																			
PUBLICATION				DESCRIPTION				NA																					

NAME OF PREPARER Robert A. Palmer PHONE (616) 465-5901

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PDR ADOCK 05000316  
S PDR

NRC USE ONLY

GPO 91-7-926

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.

# HUMID CALCULATION SUMMARY SHEET D. C. COOL UNIT 2

UNIT NO. 2

CYCLE NO. 3

REPORT NO. 18C

DATE SEPTEMBER 27, 1982

PERIOD 01JUL82-18SEP82

REGION NO

SHIPPING  
FOR PERIOD  
(01JUL82-18SEP82)

CUMULATIVE  
RISK  
(01JUL82-18SEP82)

ENERGY  
FOR PERIOD  
(BTU)

CUMULATIVE  
ENERGY  
(BTU)

1  
2  
3

0.1728E+06  
0.2446E+06  
0.2427E+06

0.2541E+05  
0.3013E+05  
0.1542E+05

0.1050E+13  
0.7490E+13  
0.4378E+13

0.2012E+14  
0.9071E+14  
0.5392E+14

COEF TOTAL

0.2332E+06

0.2718E+05

0.1492E+14

0.1647E+15

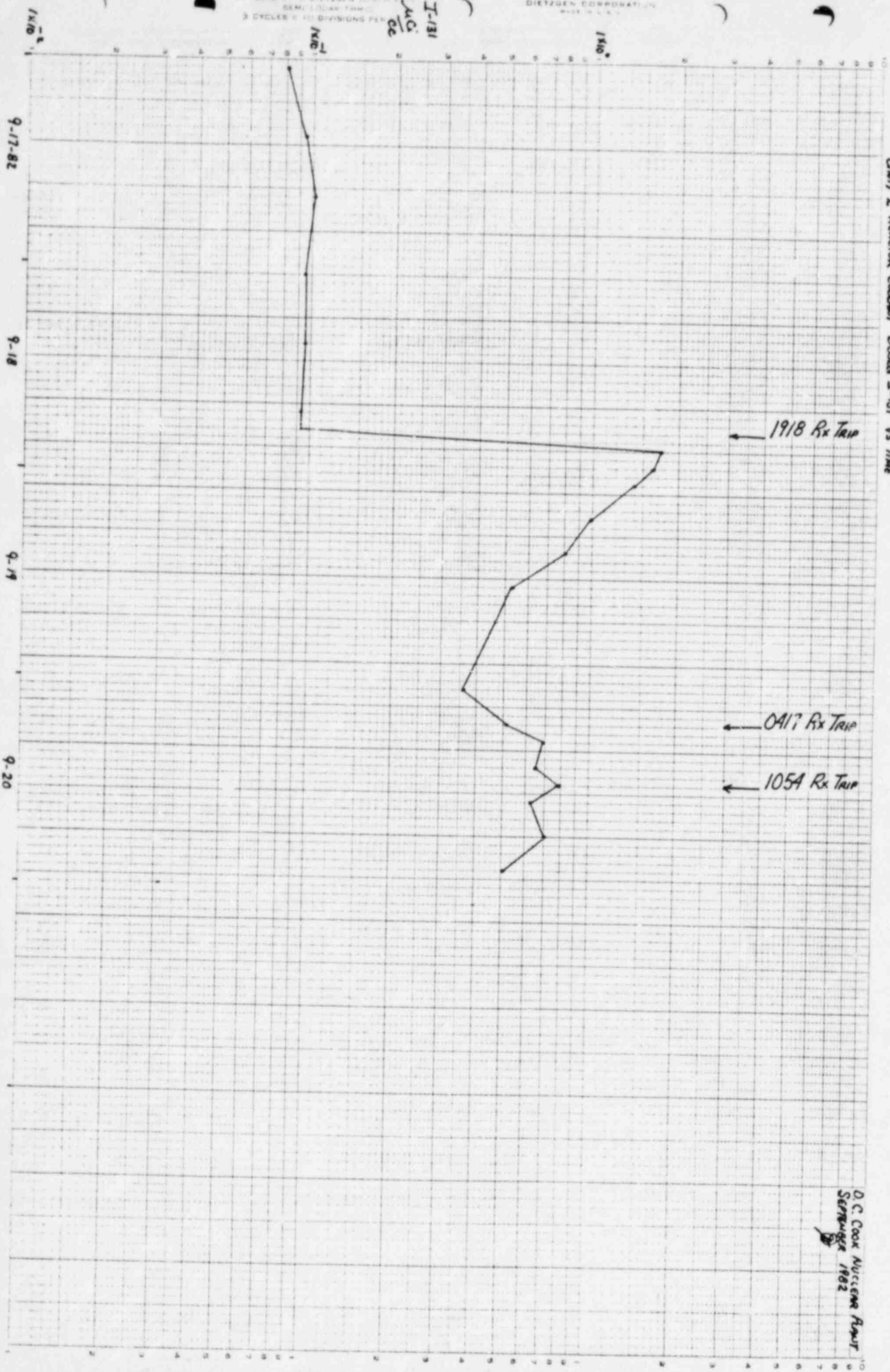
chem

I-131  
μCi  
cc

100

100

UNIT 2 Reactor Count Doses I-131 vs Time



O.C. Cook Nuclear Audit  
September 1982

chem

