### LICENSEE EVENT REPORT

CONTROL BLOCK: [ ] [ ] (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)	
0 1 M I D C C 2 2 0 0 - 0 10 0 0 - 0 0 3 4 11 11 11 11 4 1 1 1 1 1 1 1 1 1 1 1	5 5
CON'T  O 1  SOURCE L 6 0 5 0 0 0 3 1 6 7 0 9 3 0 8 2 8 1 0 2 7 8 2  O 1  SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 8	]
EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)  [0   2   FOLLOWING UNIT SHUTDOWN, THE REACTOR COOLANT SYSTEM (RCS) DOSE EQUIVALENT (DOSE	Q)
[ ] IODINE-131 CONCENTRATION EXCEEDED THE 1.0 μCi/gram STEADY STATE LIMIT OF TECHNI	CAL
SPECIFICATION 3.4.8. THE IODINE LEVELS REMAINED IN EXCESS OF TECHNICAL SPECIFIC	CATION
O 5 LIMITS UNTIL 0902 HOURS ON OCTOBER 2, 1982. THE PUBLIC HEALTH AND SAFETY WERE	NOT
O 6 AFFECTED. PREVIOUS OCCURRENCES OF A SIMILAR NATURE INCLUDE: 50-315/76-059, 78	-026;
0 7 6 50-316/81-049, 82-004, 013, 018, 067, 075, 078.	
0 8 [	
SYSTEM CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCOD	80
X 18 X 19 Z 20 Z 21 O O O O Y 23 SUBMITTED FORM SUB. SUPPLIER MANUF, Z 19	ONENT ACTURER 19 19 26
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)  1 0 ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13	1
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13	ING
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE	ING
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)	ING
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)	ING CE
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  STATUS  SPOWER  OTHER STATUS  NA  METHOD OF DISCOVERY DESCRIPTION (32)  B (31) ROUTINE CHEMICAL ANALYSIS  ACTIVITY CONTENT  RELEASED OF RELEASE.  AMOUNT OF ACTIVITY (35)  LOCATION OF RELEASE (36)	ING
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  SPOWER OF POWER OF POWER OF DISCOVERY DESCRIPTION 32  ACTIVITY CONTENT 12 13  ACTIVITY CONTENT 12 13  ACTIVITY CONTENT 12 13  AMOUNT OF ACTIVITY 35  NA 16  PERSONNEL EXPOSURES  AMOUNT OF ACTIVITY 35  NA 44  PERSONNEL EXPOSURES	ING CE
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  STATUS  THE RESTATUS  THE R	ING CE 80
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  TIST PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLATION TO PREVENT TO LOCATION OF RELEASE TO LOCATE TO LOC	ING CE 80 80 80
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  TO SPIKED TO 2.15 µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  TO PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  THE LEAKING FUEL ASSEMBLIES. (SEE	TNG
ON SEPTEMBER 30, 1982, FOLLOWING A CONTROLLED UNIT SHUTDOWN, THE RCS DOSEQ-I-13  SPIKED TO 2.15 µCi/gram. PRIOR TO THE SHUTDOWN, THE RCS DOSEQ-I-131 WAS AVERAGE  TIZ 9.5 x 10 <sup>-2</sup> µCi/gram. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE  TIZ PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLA  THE LEAKING FUEL ASSEMBLIES. (SEE ATTACHED SUPPLEMENT)  THE LEAKING FUEL ASSEMBLIES. (SEE	TNG

# ATTACHMENT TO LER# 82-079/03L-0 SUPPLEMENT TO CAUSE DESCRIPTION

THIS REPORT IS SUBMITTED PERSUANT TO THE PEQUIREMENTS OF APPENDIX A TECHNICAL SPECIFICATIONS 3.4.8 AND 6.9.1. ON SEPTEMBER 30, 1982, THE DOSE EQUIVALENT IODINE-131 ACTIVITY IN THE UNIT 2 REACTOR COOLANT SYSTEM WAS FOUND OUT OF SPECIFICATION.

AT 1615 HOURS ON SEPTEMBER 30, 1982, THE UNIT STARTED A CONTROLLED SHUTDOWN, WITH THE REACTOR TRIPPING FROM APPROXIMATELY 11% POWER AT 1843 HOURS ON SEPTEMBER 30, 1982. LABORATORY AND YSIS AT 1913 HOURS ON SEPTEMBER 30, 1982. INDICATED THE REACTOR COOLANT DOSE EQUIVALENT IODINE-131 CONCENTRATION HAD EXCEEDED THE TECHNICAL SPECIFICATION LIMITS OF 1.0 µCi/gram. \*THE DOSE EQUIV-ALENT IODINE-131 ACTIVITY SPIKED TO A MAXIMUM OF 2.15 µCi/gram AT 2116 HOURS ON SEPTEMBER 30, 1982. THE REACTOR COOLANT SYSTEM DOSE EQUIVALENT IODINE REMAINED ABOVE TECHNICAL SPECIFICATION LIMITS UNTIL 0902 HOURS ON OCTOBER 2, 1982. ALL SUBSEQUENT DOSE EQUIVALENT IODINE ANALYSIS INDICATED DECREASING LEVELS OF IODINE. FOLLOWING THE SHUTDOWN, THE UNIT WAS COOLED DOWN TO MODE 4 AND THE RHR SYSTEM PUT IN SERVICE. DUE TO RESIDUAL AMMONIA CONTAMINATION IN THE RHR THE CVCS DEMINERALIZER WAS BYPASSED FROM 0315 HOURS ON OCTOBER 1, 1982, to 1759 HOURS ON OCTOBER 2, 1982. IODINE RELEASE AT THIS TIME PERIOD IS CON-SISTENT 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. IN AN ATTEMPT TO PREVENT RECURRENCE, FUEL SIPPING WILL BE PERFORMED DURING THE UPCOMING REFUELING OUTAGE IN AN EFFORT TO LOCATE AND REPLACE THE LEAKING FUEL ASSEMBLIES.

### ATTACHMENT TO LER#82-079/03L-0

# SUPPLEMENT TO CAUSE DESCRIPTION (CONT'D)

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

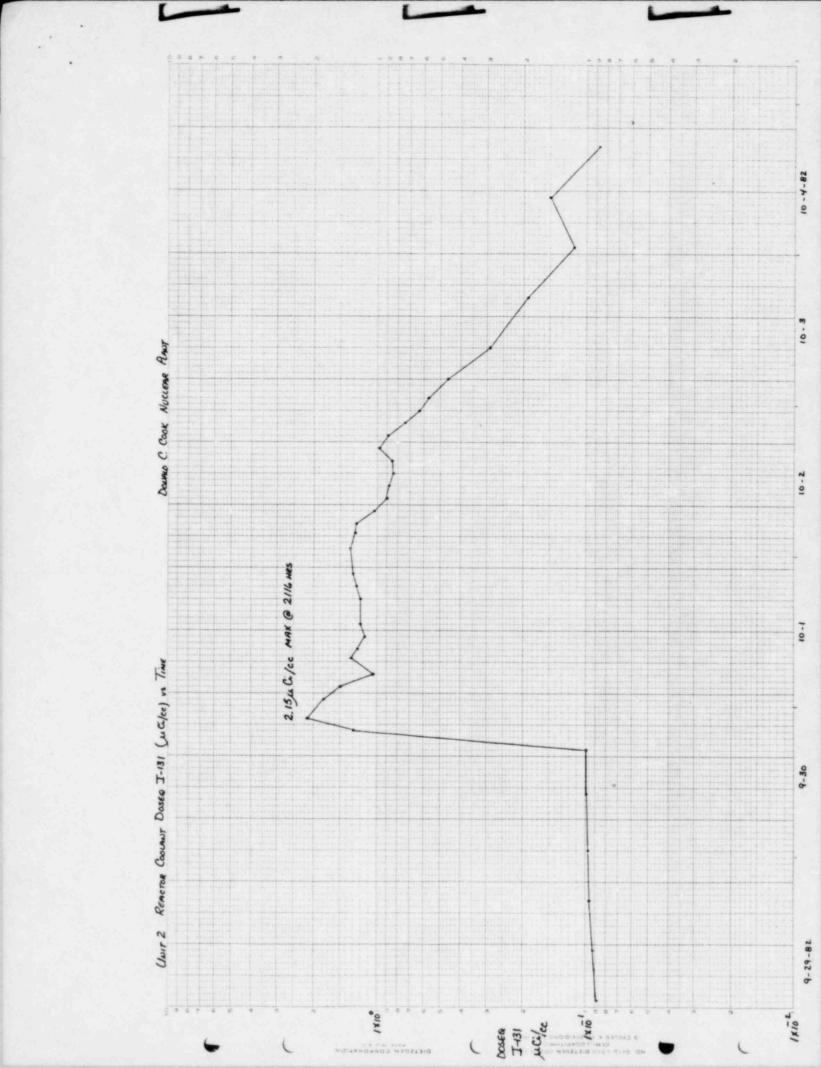
CYCLE NO. 3

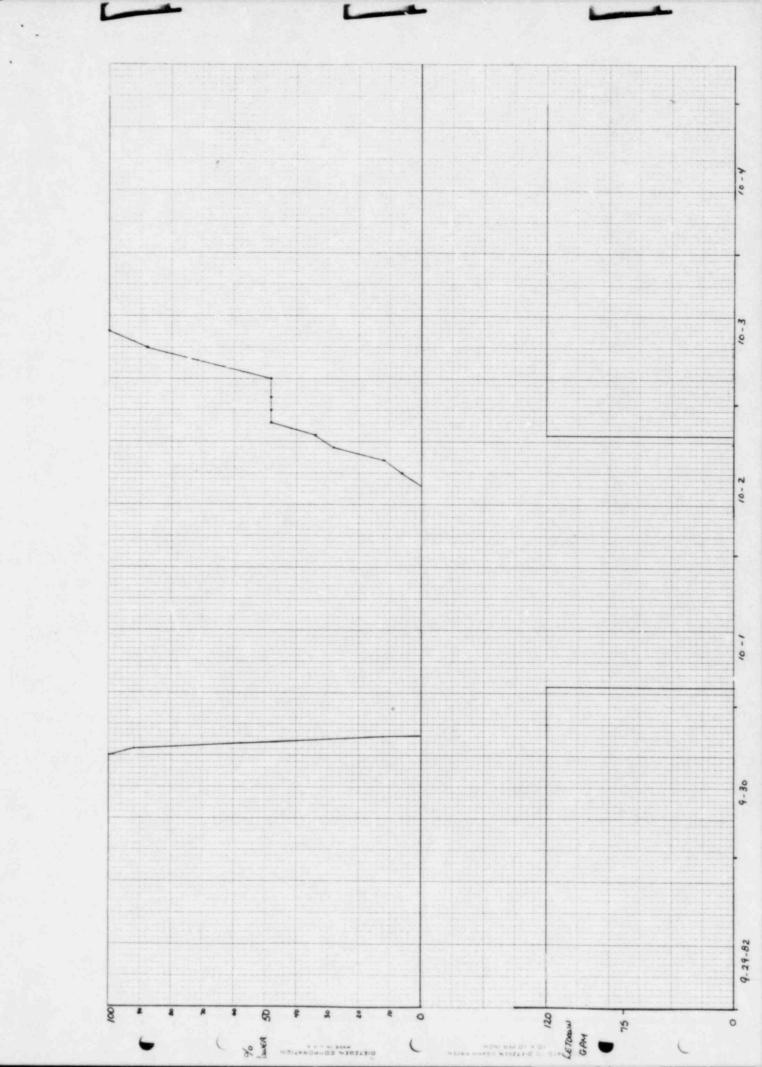
REPORT NO. 19

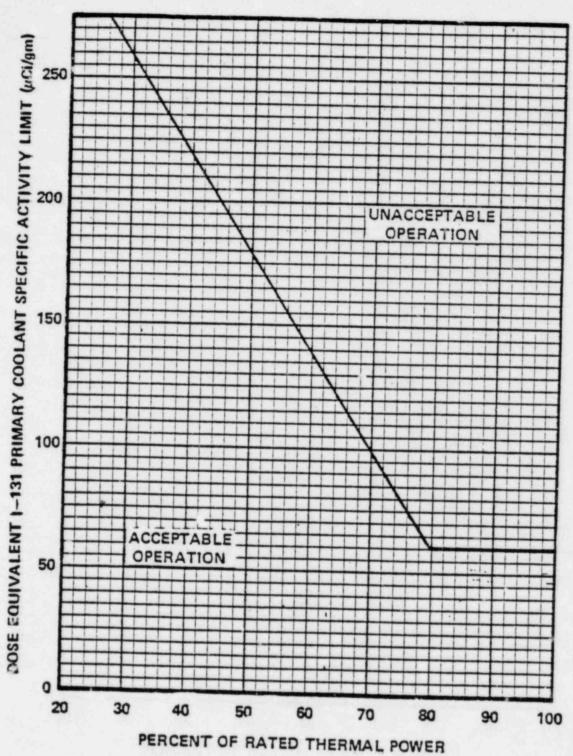
DATE OCTOBER 14, 1982

PERIOD 01JUL82-30SEP82

				The state of the s
REGION NO	BURNUP	CUMULATIVE	ENERGY	CUMULATIVE
	FOR PERIOD	BURNUP	FOR PERIOD	ENERGY
	(MWD/MTU)	(MHD/MTU)	(BTU)	(BTU)
1 2 3	0.1538E+04	0.2562E+05	0.1217E+13	0.2029E+14
	0.2885E+04	0.3052E+05	0.8688E+13	0.9191E+14
	0.2815E+04	0.1601E+05	0.9718E+13	0.5526E+14
CORE TOTAL	0.2705E+04	0.2308E+05	0.1962E+14	0.1675E+15







# FIGURE 3:4-1

DOSE EQUIVALENT I-131 Primary Coolant Specific Activity Limit Versus Percent of RATED THERMAL POWER with the Primary Coolant Specific Activity > 1.0 µCi/gram Dose Equivalent I-131