

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 M I D C C 2 0 0 0 0 0 0 0 0 0 0 0 3 4 1 1 1 1 4 5
 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 58

ON'T
 1 REPORT SOURCE L 6 0 5 0 0 0 3 1 6 7 0 7 1 5 8 1 3 0 8 1 4 8 1 9
 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

2 DURING A SURVEILLANCE TEST ON RMS CHANNEL R-19 (S.G. BLOWDOWN), THE DETECTOR WAS FOUND TO
 3 BE INOPERABLE. THE DETECTOR FAILED SOMETIME BETWEEN 06-17-81 AND 07-15-81. DURING THIS
 4 TIME PERIOD THE S.G. BLOWDOWN FLASH TANK WAS IN SERVICE TWICE. WITH THIS UNIT EXPERIENC-
 5 ING A SMALL PRIMARY-TO-SECONDARY LEAK, THE RMS OPERABILITY REQUIREMENTS OF APPENDIX-B T.S.
 6 2.4.2.g. WAS NOT MET IF THE R-19 DETECTOR WAS INOPERABLE DURING THE TIMES WHEN THE S.G.
 7 BLOWDOWN WAS ROUTED TO THE FLASH TANK. THIS EVENT WAS DETERMINED TO BE REPORTABLE ON
 8 08-10-81.

9 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
 9 M C 11 E 12 E 13 I N S T R U 14 E 15 Z 16
 17 LER/RC REPORT NUMBER 18 8 1 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 33 ACTION TAKEN 34 FUTURE ACTION 35 EFFECT ON PLANT 36 SHUTDOWN METHOD 37 HOURS 38 ATTACHMENT SUBMITTED 39 NPRO-4 FORM SUB. 40 PRIME COMP. SUPPLIER 41 COMPONENT MANUFACTURER
 42 A 18 Z 19 Z 20 Z 21 0 0 0 0 22 Y 23 Y 24 A 25 H 0 6 5 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

0 INVESTIGATION COULD NOT REVEAL WHEN THIS DETECTOR ACTUALLY FAILED. A REVIEW OF APPLICABLE
 1 RECORDER CHARTS INDICATED THAT THERE WAS METER FLUCTUATION UP UNTIL THE TIME R-19 WAS
 2 FUNCTIONALLY TESTED ON 07-15-81. AT WHICH TIME THE INSTRUMENT (MANUFACTURED BY HARSHAW
 3 CHEMICAL CO., MODEL NO. 6S4) FAILED TO RESPOND TO A KNOWN RADIATION SOURCE. CALCULATIONS
 4 WERE MADE TO QUANTIFY THE RELEASES MADE FROM THE STEAM GENERATOR (SEE ATTACHED SUPPLEMENT)

5 FACILITY STATUS 6 % POWER 7 OTHER STATUS 8 METHOD OF DISCOVERY 9 DISCOVERY DESCRIPTION
 5 E 28 1 0 0 29 NA B 31 SURVEILLANCE TEST
 6 ACTIVITY CONTENT 7 AMOUNT OF ACTIVITY 8 LOCATION OF RELEASE
 6 M 33 M 34 SEE CAUSE DESCRIPTION S.G. BLOWN FLASH TANK TO ATMOSPHERE
 7 PERSONNEL EXPOSURES 8 PERSONNEL INJURIES 9 LOSS OF OR DAMAGE TO FACILITY
 7 0 0 0 37 Z 38 NA 40 NA 42 NA
 8 0 0 0 40 NA 42 NA
 9 PUBLICITY 10 ISSUED DESCRIPTION 11
 9 N 44 NA
 8108210121 810814
 PDR ADOCK 05000316
 S PDR
 NRC USE ONLY
 58 59 60

NAME OF PREPARER

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ATTACHMENT TO LER#81-034/04T-0

SUPPLEMENT TO CAUSE DESCRIPTION

BLOWDOWN FLASH TANK. THESE CALCULATIONS WERE BASED ON RECORDED BLOWDOWN RATES FOR 07-13-81 AND ESTIMATED MAXIMUM BLOWDOWN RATES FOR 07-11-81, DUE TO THE LOSS OF THE RECORDER CHART PAPER FOR BLOWDOWN VALVE POSITION.

RELEASE CALCULATIONS

<u>DATE</u>	<u>ISOTOPE</u>	<u>RELEASED AMOUNT</u>
07-11-81	I-131	4.16 E-2 Curries
	H-3	2.697E-3 Curries
	Xe-133	2.70 E-3 Curries
	Cs 134	1.23 E-3 Curries
	Cs 136	6.87 E-4 Curries
	Cs 137	2.31 E-3 Curries
07-13-81	I-131	2.42 E-4 Curries
	H-3	2.58 E-4 Curries

THESE FIGURES CORRESPOND TO THE FOLLOWING PERCENT TECHNICAL SPECIFICATION RELEASES:

<u>ISOTOPE</u>	<u>AVERAGE</u>	<u>MAXIMUM</u>	<u>AVERAGE</u>	<u>MAXIMUM</u>
I-131	9.129E-1%	1.805E0%	1.017E0%	1.998E0%
Xe-133	N.A.	N.A.	1.454E-5%	1.454E-5%
H-3	5.371E-4%	1.052E-4%	1.926E-1%	3.809E-1%
Cs 134, 136, 137	3.429-E-3%	3.429E-3%	2.034E-1%	2.034E-1%

THE ACTIVITY IN THE SECONDARY SYSTEM DID NOT SHOW ANY SIGNIFICANT CHANGE DURING THE INTERVAL, WHEN R-19 MAY HAVE BEEN INOPERABLE, AS MONITORED BY PRIMARY-TO-SECONDARY CHEMISTRY LEAK SURVEILLANCES.

TO PREVENT REOCCURRENCE, OPERATIONS PROCEDURES HAVE BEEN CHANGED REQUIRING R-19 TO BE SOURCE CHECKED, TO VERIFY OPERABILITY, PRIOR TO PLACING THE STEAM GENERATOR BLOWDOWN FLASH TANK IN SERVICE.

THIS REPORT IS BEING SUBMITTED AS THE OPERABILITY OF R-19 COULD NOT BE PROVEN DURING THE TIMES THE STARTUP FLASH TANK WAS IN SERVICE.