

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

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REPORT SOURCE L 6 0 5 0 0 0 3 1 5 7 0 2 1 1 8 3 8 0 3 3 0 8 3 9  
60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 ON FEBRUARY 11, 1983, AT 0900 HRS. A PLANNED GAS SAMPLING EVOLUTION WHICH PRODUCED AN  
03 EXPECTED GAS RELEASE OF UNEXPECTED MAGNITUDE WAS DETECTED BY AN ELEVATED UNIT 1 AND  
04 UNIT 2 VENT STACK GASEOUS MONITOR (1R-26 AND 2R-26 RESPECTIVELY) READING. THIS EVENT  
05 CONTINUED UNTIL APPROXIMATELY 1040 HRS. ON FEBRUARY 11, 1983. A SECOND EVENT (UNEXPECT  
06 ED, THEREFORE, UNPLANNED) OCCURRED AT 1340 HRS. ON FEBRUARY 11, 1983, WHICH WAS DETECTED  
07 BY AN ELEVATED UNIT 2 VENT STACK GASEOUS MONITOR (2R-26) READING. THIS EVENT CONTINUED  
08 UNTIL APPROXIMATELY 1530 HRS. ON FEBRUARY 11, 1983. (SEE ATTACHED SUPPLEMENT)

80

|                 |                            |                    |                    |       |                         |                    |                          |                           |    |                  |    |                    |                |    |    |                |   |    |                 |    |                  |    |    |                  |   |    |  |  |
|-----------------|----------------------------|--------------------|--------------------|-------|-------------------------|--------------------|--------------------------|---------------------------|----|------------------|----|--------------------|----------------|----|----|----------------|---|----|-----------------|----|------------------|----|----|------------------|---|----|--|--|
| 0               | 9                          |                    | SYSTEM<br>CODE     | X     | X                       | 11                 | CAUSE<br>CODE            | A                         | 12 | CAUSE<br>SUBCODE | X  | 13                 | COMPONENT CODE | Z  | Z  | Z              | Z | Z  | Z               | 14 | COMP.<br>SUBCODE | Z  | 15 | VALVE<br>SUBCODE | Z | 16 |  |  |
| 1               | 8                          |                    |                    | 9     | 10                      |                    |                          | 11                        |    | 12               |    | 13                 |                | 14 |    |                |   |    |                 | 15 |                  | 16 |    |                  |   |    |  |  |
| 17              | LER/RO<br>REPORT<br>NUMBER | 18                 | 3                  | 21    | EVENT YEAR              | 22                 | SEQUENTIAL<br>REPORT NO. | 0                         | 1  | 0                | 24 | OCCURRENCE<br>CODE | 0              | 4  | 28 | REPORT<br>TYPE | X | 30 | REVISION<br>NO. | 1  | 32               |    |    |                  |   |    |  |  |
|                 |                            |                    |                    |       |                         |                    |                          |                           |    |                  |    |                    |                |    |    |                |   |    |                 |    |                  |    |    |                  |   |    |  |  |
| ACTION<br>TAKEN | FUTURE<br>ACTION           | EFFECT<br>ON PLANT | SHUTDOWN<br>METHOD | HOURS | ATTACHMENT<br>SUBMITTED | NPRD-4<br>FORM SUB | PRIME COMP.<br>SUPPLIER  | COMPONENT<br>MANUFACTURER |    |                  |    |                    |                |    |    |                |   |    |                 |    |                  |    |    |                  |   |    |  |  |
| X               | Z                          | Z                  | Z                  | 0     | Y                       | N                  | Z                        | Z                         |    |                  |    |                    |                |    |    |                |   |    |                 |    |                  |    |    |                  |   |    |  |  |
| 13              | 19                         | 20                 | 21                 | 22    | 23                      | 24                 | 25                       | 26                        |    |                  |    |                    |                |    |    |                |   |    |                 |    |                  |    |    |                  |   |    |  |  |

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 DURING SAMPLING OF THE UNIT 1 VOLUME CONTROL TANK (VCT) GAS SPACE, THE SAMPLE LINE

1 1 DRAIN VALVE (NS-186) LOCATED IN THE NUCLEAR SAMPLING ROOM WAS INADVERTENTLY LEFT IN

1 2 THE OPEN POSITION. THIS ALLOWED GAS TO GO FROM NS-186 THROUGH THE CLEAN SUMP TANK TO

1 3 THE WASTE HOLDUP TANKS CONTINUING THROUGH THE AUXILIARY BUILDING VENTILATION SYSTEM TO

1 4 THE UNIT VENT STACKS. (SEE ATTACHED SUPPLEMENT)

|                  |   |                     |    |                    |    |                     |    |                                       |    |
|------------------|---|---------------------|----|--------------------|----|---------------------|----|---------------------------------------|----|
| FACILITY STATUS  |   | % POWER             |    | OTHER STATUS       |    | METHOD OF DISCOVERY |    | DISCOVERY DESCRIPTION                 |    |
| 1                | 5 | E                   | 28 | 1                  | 0  | 0                   | 29 | NA                                    | 30 |
| ACTIVITY CONTENT |   | RELEASED OF RELEASE |    | AMOUNT OF ACTIVITY |    | LOCATION OF RELEASE |    | AUXILIARY BUILDING VENT TO ATMOSPHERE |    |
| 1                | 6 | G                   | 33 | N                  | 34 | 37.7 Ci Xe-133      | 35 | 36                                    | 37 |

| PERSONNEL EXPOSURES |   |   |      |             |      |   |      |  |    |
|---------------------|---|---|------|-------------|------|---|------|--|----|
| NUMBER              |   |   | TYPE | DESCRIPTION |      |   |      |  |    |
| 1                   | 7 | 0 | 0    | 0           | (37) | Z | (38) |  | NA |

| PERSONNEL INJURIES |             | DESCRIPTION |             |
|--------------------|-------------|-------------|-------------|
| NUMBER             | DESCRIPTION | NUMBER      | DESCRIPTION |
| 0000               | (40)        | 830411      | MD          |

8 9 11 12  
LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION  
PDR ADCK 05000315  
S  
80

1 9 Z 42 NA PDR 80

ISSUED Y (44) DESCRIPTION (45) PRESS RELEASE TO LOCAL NEWSPAPER 2/12/83 NRC USE ONLY

NRC USE ONLY

NAME OF PREPARER J. L. RISCHLING

PHONE: 616/465/5901

SEP 91 7-926

ATTACHMENT TO LER# 83-010/04X-1

SUPPLEMENT TO EVENT DESCRIPTION

ON FEBRUARY 11, 1983, AT 0900 HOURS A PLANNED GAS SAMPLING EVOLUTION WHICH PRODUCED AN EXPECTED GAS RELEASE OF UNEXPECTED MAGNITUDE WAS DETECTED BY AN ELEVATED UNIT 1 AND UNIT 2 VENT STACK GASEOUS MONITOR (1R-26 AND 2R-26 RESPECTIVELY) READING. THIS EVENT CONTINUED UNTIL APPROXIMATELY 1040 HOURS ON FEBRUARY 11, 1983. A SECOND EVENT (UNEXPECTED, THEREFORE, UNPLANNED) OCCURRED AT 1340 HOURS ON FEBRUARY 11, 1983, WHICH WAS DETECTED BY AN ELEVATED UNIT 2 VENT STACK GASEOUS MONITOR (2R-26) READING. THIS EVENT CONTINUED UNTIL APPROXIMATELY 1530 HOURS ON FEBRUARY 11, 1983. DURING THESE TIME PERIODS, A TOTAL OF 37.7 Ci WAS RELEASED AT A RATE OF  $2.86 \text{ E-3 Ci/SEC}$ , WHICH IS 4.81% OF TECHNICAL SPECIFICATION APPENDIX B, SECTION 2.1.2.a(1). CONSERVATIVELY ESTIMATING THAT BOTH UNIT'S DETECTORS INDICATED THE MAXIMUM RELEASE RATE SIMULTANEOUSLY, THE MAXIMUM TOTAL RELEASE RATE WAS  $5.48 \text{ E-2 Ci/SEC}$  WHICH IS 92.39% OF TECHNICAL SPECIFICATION APPENDIX B, SECTION 2.1.3.a(1). THIS OCCURRED WITHOUT THE SAMPLING AND ANALYTICAL REQUIREMENTS OF TECHNICAL SPECIFICATION APPENDIX B. 2.4.4.E.

SUPPLEMENT TO CAUSE DESCRIPTION

DURING SAMPLING OF THE UNIT 1 VOLUME CONTROL TANK (VCT) GAS SPACE, THE SAMPLE LINE DRAIN VALVE NS-186 LOCATED IN THE NUCLEAR SAMPLING ROOM WAS INADVERTENTLY LEFT IN THE OPEN POSITION, WHEN AT THIS POINT IN THE PROCESS IT WAS PROCEDURALLY REQUIRED TO BE CLOSED. THIS ALLOWED GAS TO GO FROM NS-186 THROUGH THE CLEAN SUMP TANK TO THE WASTE HOLDUP TANKS CONTINUING THROUGH THE AUXILIARY BUILDING VENTILATION SYSTEM TO

SUPPLEMENT TO CAUSE DESCRIPTION, CONTINUED

THE UNIT VENT STACK. WHILE VALVING IN THE SAMPLE CONTAINER A PIECE OF PLASTIC TUBING USED TO CONNECT THE SAMPLE CONTAINER WITH THE SAMPLE PIPING SEPARATED AT THE CONNECTION CAUSING ADDITIONAL RADIO-GAS TO BE DISCHARGED TO THE UNIT 1 VENT STACK. THE SAMPLE POINT ROOT VALVE (1-CS-374) WAS CLOSED, TO ISOLATE THE RELEASE. AT APPROXIMATELY 1340 HOURS 1-CS-374 WAS OPENED, THE NORMAL OPERATING POSITION, WHICH CAUSED THE SECOND EVENT TO OCCUR, SINCE NS-186 WAS INADVERTENTLY LEFT IN THE OPEN POSITION. IMMEDIATELY FOLLOWING DETECTION OF THE SECOND EVENT 1-CS-374 WAS RECLOSED. AT APPROXIMATELY 1855 HOUR ON FEBRUARY 11, 1983, NS-186 WAS DISCOVERED OPEN AND PLACED IN THE CLOSED POSITION. VALVE 1-CS-374 WAS THEN REOPENED WITH NO GASEOUS RELEASES BEING DETECTED.

TO PREVENT RECURRENCE OF THIS EVENT, THE FOLLOWING MEASURES HAVE BEEN TAKEN:

- 1) THE PERSONNEL INVOLVED HAVE BEEN INSTRUCTED IN THE PROPER METHOD OF SAMPLING THE VCT GAS SPACE.
- 2) ADMINISTRATIVE CONTROLS HAVE BEEN IMPLEMENTED REQUIRING THAT THE PROCEDURE FOR SAMPLING THE VCT GAS SPACE BE IN HAND DURING THE SAMPLING PROCESS.
- 3) THE CHEMICAL SECTION SAMPLE PROCEDURES WERE REVIEWED TO INSURE THAT EACH PROCEDURE REFLECTED THE CURRENT AND CORRECT METHOD OF SAMPLING.
- 4) A PRECAUTIONARY NOTE WAS ADDED TO THE SAMPLING PROCEDURE STATING THAT VCT SAMPLES WILL NOT BE TAKEN FOR TESTING OR TRAINING PURPOSES AND THAT THE VCT WILL ONLY BE SAMPLED BY DIRECTION OF THE PLANT CHEMICAL SUPERVISOR.

ATTACHMENT TO LER# 83-010/04X-1

SUPPLEMENT TO CAUSE DESCRIPTION, CONTINUED

- 5) IMPROVING THE GENERAL CONDITION OF THE SAMPLING SYSTEM BY:  
VERIFYING THAT ALL SAMPLE VALVES IN THE NUCLEAR SAMPLE ROOM  
HAVE IDENTIFICATION TAGS; AND REPLACING MISSING VALVE  
HANDLES ON SAMPLE VALVES. VALVE HANDLES ARE CURRENTLY BEING  
FABRICATED FOR THIS PURPOSE.

ATTACHMENT TO LER # 83-010/04X-1

IE INSPECTION REPORT 50-315/83-03, 50-316/83-03, COVERING THE SUBJECT OF THIS LER, LISTED SEVERAL UNRESOLVED ITEMS. THESE ARE DESCRIBED BELOW:

UNRESOLVED ITEM - 315/83-03-01; 316/83-03-01

NO PROCEDURE CHANGE HAD BEEN APPROVED TO REFLECT THE INOPERABLE FLOW MEASURING DEVICE OR USE OF THE MARINELLI SAMPLE VESSEL. STATUS - SEE PREVENTIVE MEASURE NO.2. THE DEFECTIVE FLOW INSTRUMENT HAS BEEN REPLACED. PROCEDURAL CHANGES HAVE BEEN MADE TO ALLOW THE USE OF THE MARINELLI SAMPLE VESSEL.

UNRESOLVED ITEM - 315/83-03-02; 316/83-03-02

FAILURE TO OPERATE THE SAMPLING SYSTEM VALVES IN ACCORDANCE WITH PROCEDURE 12 THP 6020 LAB.038. STATUS - SEE PREVENTIVE MEASURE NO.2.

UNRESOLVED ITEM - 315/83-03-03; 316/83-03-03

SEVERAL PROBLEMS WERE NOTED CONCERNING THE METHOD OF CALIBRATION OF 1R-26 AND 2R-26. STATUS - NO ADDITIONAL ATTEMPTS WILL BE MADE TO CALIBRATE 1R-26 AND 2R-26, OTHER THAN OUR CURRENT METHOD OF USING CAP SOURCES. THESE RADIATION MONITORS ARE CURRENTLY SCHEDULED TO BE REPLACED BY MAY 31, 1983. MR. D.C. PALMER (PLANT RADIATION PROTECTION SUPERVISOR) CONTACTED MR. P.C. LOVENDALE BY PHONE ON 3-18-83. MR. LOVENDALE DID NOT EXPECT THE PLANT TO TAKE FURTHER ACTION AT THIS TIME, ESPECIALLY WITH THE RADIOGAS MONITORS BEING REPLACED.

UNRESOLVED ITEM - 315/83-03-04; 316/83-03-04

LOSS OF THE UNIT 2 P-250 PRINTOUT COVERING THE PERIOD OF THE RELEASE.

STATUS - WE ARE EXPLORING METHODS OF PREVENTING A RECURRENCE.

UNRESOLVED ITEM - 315/83-03-05; 316/83-03-05

THE FAILURE TO CLASSIFY THE RELEASE AS AN UNUSUAL EVENT AS REQUIRED BY PMP 2080 EPP.001.

STATUS - THIS MATTER STILL REMAINS UNDER REVIEW IN LIGHT OF THE NEW RADIOLOGICAL TECHNICAL SPECIFICATION AMMENDMENTS NO.69 TO UNIT ONE AND NO.51 TO UNIT TWO; AND THE NEW RADIATION MONITORS TO BE IN SERVICE BY MAY 31, 1983. THE OPERATING PERSONNEL HAVE BEEN MADE AWARE THAT ALL RELEASE MONITORS NEED TO BE CONSIDERED WHEN CLASSIFYING A RELEASE IN ACCORDANCE WITH THE CURRENT EMERGENCY PLAN GUIDANCE.

UNRESOLVED ITEM - 315/83-03-06; 316/83-03-06

THE INSPECTORS NOTED SEVERAL PROBLEMS WITH THE GENERAL CONDITION OF THE NUCLEAR SAMPLING SYSTEM.

STATUS - ADDRESSED IN THE BODY OF THE LER  
(REFER TO PREVENTIVE MEASURE ITEMS)

UNRESOLVED ITEM - 315/83-03-07; 316/83-03-07

DURING THE RELEASE, AT LEAST TWO CONTINUOUS AIR MONITORS (CAMS) ALARMED. THE GAS ASSOCIATED WITH THIS RELEASE SHOULD HAVE REMAINED CONTAINED IN THE SAMPLING SYSTEM, WASTE DRAIN SYSTEM, AND AUXILIARY BUILDING VENTILATION SYSTEM. A LOSS OF A FLOOR DRAIN LOOP SEAL MAY HAVE BEEN THE SOURCE OF GAS IN THE AUXILIARY BUILDING THAT CAUSED THE CAM ALARMS.

STATUS - THIS MATTER REMAINS UNDER REVIEW