7-77)

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | | | L | L | S | C | 1 (2) | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 (3) | 4 | 1 | 0 | 0 | 0 (4) | | (5)

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

CON'T

0 1 | REPORT SOURCE | L (6) | 0 | 5 | 0 | 0 | 0 | 3 | 7 | 3 (7) | 1 | 0 | 3 | 0 | 8 | 2 (8) | 1 | 1 | 2 | 9 | 8 | 2 (9)

7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | Loss of flow due to water in the sample caused the Off-Gas Pretreatment Monitor to

0 3 | be inoperative. The Main Steam Line Radiation Monitors, Off-Gas Post Treat, and

0 4 | Reactor water analysis did not show any radioactivity above normal. The health and

0 5 | safety of the public was not affected.

0 6 |

0 7 |

0 8 | 7 8 9 80

0 9 | SYSTEM CODE: M C (11) | CAUSE CODE: B (12) | CAUSE SUBCODE: A (13) | COMPONENT CODE: Z Z Z Z Z Z (14) | COMP. SUBCODE: Z (15) | VALVE SUBCODE: Z (16)

7 8 9 10 11 12 13 18 19 20

(17) LER/RO REPORT NUMBER: EVENT YEAR 8 2 | — | SEQUENTIAL REPORT NO. 1 4 0 | / | OCCURRENCE CODE 0 3 | REPORT TYPE L | — | REVISION NO. 0

21 22 23 24 26 27 28 29 30 31 32

ACTION TAKEN: G (18) | FUTURE ACTION: F (19) | EFFECT ON PLANT: Z (20) | SHUTDOWN METHOD: Z (21) | HOURS (22): 0 0 0 0 | ATTACHMENT SUBMITTED: Y (23) | NPRD-4 FORM SUB.: N (24) | PRIME COMP. SUPPLIER: A (25) | COMPONENT MANUFACTURER: Z 9 9 9

33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 |

1 1 | The gas enters the system at close to dew point conditions. Ambient heat losses and

1 2 | flow restrictions cause moisture in the system. Heat tracing and proper installation

1 3 | of the purge valve have been accomplished with procedure changes to identify use of

1 4 | purge for this system.

7 8 9 80

1 5 | FACILITY STATUS: Z (28) | % POWER: 0 4 4 (29) | OTHER STATUS (30): NA | METHOD OF DISCOVERY: A (31) | DISCOVERY DESCRIPTION (32): OBSERVATION

7 8 9 10 12 13 44 45 46 80

1 6 | ACTIVITY RELEASED: Z (33) | CONTENT OF RELEASE: Z (34) | AMOUNT OF ACTIVITY (35): NA | LOCATION OF RELEASE (36): NA

7 8 9 10 11 44 45 80

1 7 | PERSONNEL EXPOSURES NUMBER: 0 0 0 (37) | TYPE: Z (38) | DESCRIPTION (39): NA

7 8 9 11 12 13 80

1 8 | PERSONNEL INJURIES NUMBER: 0 0 0 (40) | DESCRIPTION (41): NA

7 8 9 11 12 80

1 9 | LOSS OF OR DAMAGE TO FACILITY TYPE: Z (42) | DESCRIPTION: NA

7 8 9 10 80

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2 0 | PUBLICITY ISSUED: N (44) | DESCRIPTION (45): NA | NRC USE ONLY

7 8 9 10 68 69 80

NAME OF PREPARER: Wayne R. Luett PHONE: (815) 357-6761

I. LER NUMBER: 82-140/03L

II. LASALLE COUNTY STATION: Unit 1

III. DOCKET NUMBER: 050-373

IV. EVENT DESCRIPTION:

The monitor for Off-Gas Pretreatment was declared inoperable due to water in the sample line which causes loss of sample flow to the detectors. A purge was attempted to clear the line of the water so sample flow could be re-established. The purge was unsuccessful in eliminating the water. The line was then drained and flow re-established with monitor being declared operable. The purge also caused off-gas to enter the room for sampling in the Turbine Building, elevation 754 ft. west column number 9.

V. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

The health and safety of the public was not affected by the detector being inoperative. Post treatment monitor did not show any radioactivity above normal prior to or during the event. Radio isotopic analysis of Reactor Water did not show any radioactivity above what is expected at this time. Main Steam Line Rad Monitors did not increase appreciably during the event and there were no Area Radiation Monitor alarms in the vicinity of the Off-Gas Pretreatment Monitor. Station Vent Stack Monitor was operative and did not indicate any increase in radioactivity prior to or during the event.

VI. CAUSE:

The cause of loss of gas flow in the sample line was water in the line blocking flow. The sample that enters this system is close to its dew point. The system takes suction downstream of moisture separator and prior to the 30 minute holdup volume of the Off-Gas system. The gas enters the sampling system at approximately 2 psig and 130^{o}F and a high moisture content. The gas must take a couple pipe size reductions and pipe bends to reach the detector. The gas also has ambient heat losses and becomes more dense. It is this combination of flow restrictions and temperature losses that causes moisture to collect in the sample line and restrict or prevent flow causing an inoperative condition of the detection system.

The purge valve for this system was discovered to have been installed improperly which was the reason for the Off-Gas entering the sample room. The purge valve could not be used to purge the sample line because when it repositioned it stopped flow. (Noted on drawings.)

VII. CORRECTIVE ACTION:

The sample line was drained and the monitor was restored to operable status. A temporary heat trace has been installed to keep the gas at a higher temperature. The purge valve has been properly installed to allow proper flow through the system. A modification has been written to install permanent heat tracing.

Operating has been advised to purge the sample line periodically and the annunciator procedure has been changed to identify the use of the purge switch.

Prepared by: W. Luett