

LICENSEE EVENT REPORT

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

01 PATM 11 200-000000-000 341111 4 5
7 8 9 14 15 25 26 30 37 CAT 38

CON'T
01 REPORT SOURCE L 6 05000289 70 32183 8 040483 9
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During long term cold shutdown the Waste Gas System H₂/O₂ Monitor was out of
03 service for maintenance. Manual gas samples obtained as required T.S. 3.21.2.2
04 indicated a 9% oxygen concentration by volume. Hydrogen concentration was negli-
05 gible. Public health and safety were unaffected. This event is reported per
06 T.S. 6.9.2.A(2).
07
08

09 SYSTEM CODE M B 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE Z Z Z Z Z Z Z 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
17 LER/RO REPORT NUMBER 83 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
ACTION TAKEN X 18 FUTURE ACTION X 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 00000 22 ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z 9 9 9 9 26
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The Waste Gas Holdup System had been returned to service following major main-
11 tenance (valve diaphragm replacement). Current T.S.'s fail to allow for main-
12 tenance activities which open the system to atmosphere. Nitrogen purge was initi-
13 ated and O₂ concentration reduced to less than 2% in 9.5 hours.
14

15 FACILITY STATUS X 28 % POWER 000 29 OTHER STATUS NRC Order 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION Operator Observation 32
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
16 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
17 PERSONNEL EXPOSURES NUMBER 000 37 TYPE Z 38 DESCRIPTION N/A 39
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
18 PERSONNEL INJURIES NUMBER 000 40 DESCRIPTION N/A 41
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
20 PUBLICITY ISSUED N 44 DESCRIPTION N/A 45
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HIGH OXYGEN IN THE WASTE GAS SYSTEM

I. Current Activities at the time of the Occurrence.

TMI-I was in a long term cold shutdown condition. The Hayes Gas Analyzer was out of service (refer to LER 83-004) for maintenance. Manual gas samples were being obtained as required by T.S. 3.21.2.2.

II. Circumstances Leading to the Occurrence.

On March 20, 1983 at 1930 hrs, the Waste Gas System was manually sampled to support the maintenance testing of the Hayes Gas Analyzer. The Waste Gas Holdup System was considered to be in service following a major preventive maintenance effort (valve diaphragm replacement) and the resulting extensive system purging with Nitrogen gas.

III. Description

The Oxygen analysis of the above referenced manual sample indicated a 9% concentration by volume. This concentration is in excess of Technical Specification 3.22.2.5 limit of 2%. Because the Oxygen concentration remained in excess of 2% for approximately 9.5 hours despite the Nitrogen purging effort, this event was considered to be reportable in accordance with Technical Specification 6.9.2.A.(2).

IV. Resultant Events

No explosive mixture was detected in the Waste Gas System, therefore, there was no significant adverse effect of this event.

V. Previous Events of Similar Nature.

Refer to LER 82-008

VI. Root Cause

As previously identified, Tech. Spec. 3.22.2.5 fails to recognize the effects of maintenance activities.

VII. Immediate Corrective Action

A Nitrogen purge was initiated on the Waste Gas System to reduce the Oxygen Concentration. Oxygen was reduced to less than 2% in approximately 9.5 hours.

VIII. Long Term Corrective Action

Tech Spec Change Request No. 121 has been submitted to NRC. This change request will correct this problem.

IX. Component Failure Data

Not Applicable.