

LICENSEE EVENT REPORT

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

0 1 | N C B E P 1 | 0 0 - 0 0 0 0 0 - 0 0 | 4 1 1 1 1 | _____ | _____
7 8 9 14 15 25 26 30 57 CAT 58

CON'T
0 1 | L | 0 5 0 - 0 3 2 5 | 1 1 0 9 8 1 | 1 1 3 0 8 1 | _____
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
0 2 | During routine surveillance Primary Containment Atmospheric Oxygen Analyzer, 2-CAC-AT-
0 3 | 1263-2, tripped and was immediately restarted. This event occurred again on 11-11-81.
0 4 | During each event the other Primary Containment Atmospheric Oxygen Analyzer, 2-CAC-AT-
0 5 | 1259-2, remained operable, showing normal expected indications. These events did not
0 6 | affect the health and safety of the public.
0 7 |

0 8 | _____ Technical Specifications 3.3.5.3,3.6.6.4,6.9.1.9b _____
7 8 9 80

0 9 | S | E | F | V A L V E X | D | D | _____
7 8 9 10 11 12 13 18 19 20

17 | LER/RO REPORT NUMBER | 8 1 | _____ | 0 6 4 | _____ | 0 3 | L | _____ | 0 | _____
21 22 23 24 26 27 28 29 30 31 32

ACTION TAKEN | FUTURE ACTION | EFFECT ON PLANT | SHUT DOWN METHOD | HOURS | ATTACHMENT SUBMITTED | NPRD-4 FORM SUB. | PRIME COMP. SUPPLIER | COMPONENT MANUFACTURER
C | Z | Z | Z | 0 0 0 0 | Y | Y | N | A 4 9 9 | _____
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
1 0 | The events occurred due to a defective isolation valve in the analyzer's moisture
1 1 | removal system which caused the analyzer to trip on momentarily detected low sample
1 2 | flow. A check of the moisture removal system following the first event did not reveal
1 3 | the problem and the analyzer was returned to service operating normally. Following
1 4 | the discovery of the defective valve after the second event it was replaced and the
7 8 9 analyzer was returned to normal service. _____
90

FACILITY STATUS | % POWER | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION
E | 0 8 7 | NA | A | Operator Surveillance
7 8 9 10 12 13 44 45 46 80

ACTIVITY CONTENT | AMOUNT OF ACTIVITY | LOCATION OF RELEASE
Z | Z | NA | NA
7 8 9 10 11 44 45 80

PERSONNEL EXPOSURES
NUMBER | TYPE | DESCRIPTION
0 0 0 | Z | NA
7 8 9 11 12 13 80

PERSONNEL INJURIES
NUMBER | DESCRIPTION
0 0 0 | _____
7 8 9 11 12 80

LOSS OF OR DAMAGE TO FACILITY
TYPE | DESCRIPTION
Z | _____
7 8 9 10 80

PUBLICITY
ISSUED | DESCRIPTION
N | _____
7 8 9 10 80

NAME OF PREPARER: M. J. PASTVA, JR. PHONE: _____
8112140235 811130
PDR ADOCK 05000325 PDR
S
NRC USE ONLY
919-457-9521
GPO 917-925

LER ATTACHMENT - RO #1-81-64

Facility: BSEF Unit No. 1

Event Date: 11/9/81

These events were the result of a defective diaphragm gate seal-type isolation valve in the moisture removal blowdown system of Primary Containment Atmospheric Oxygen Analyzer, 2-CAC-AT-1263-2. Attempts made to simulate the problem proved fruitless. Following a thorough cleaning of the analyzer's moisture removal system piping and a satisfactory operability check of the components, the analyzer was verified as operating within calibration tolerances and was returned to service.

After the second event, the problem was again simulated to determine its origin. While observing a moisture removal blowdown sequence, it was then revealed that the blowdown system moisture accumulator tank to sample process stream solenoid operated isolation valve was allowing partial leakage past its closed seat position during the initial blowdown sequence. The momentary puff of blowdown air pressure into the analyzer sample process stream caused the analyzer's photohelic unit to detect a brief low flow condition which resulted from the differential pressure, developed by the blowdown air pressure flowing into the sample stream. The analyzer photohelic unit would then trip the unit due to the detected brief low flow condition.

An inspection of the moisture accumulator tank to sample process stream isolation valve, Asco Model No. 104R, revealed the valve diaphragm-type gate seal was partially worn, attributable to wear through normal use. The valve internals, including the defective gate seal were replaced and the valve was observed for proper sealing and cycling. Following several closely observed moisture removal blowdown sequences, which found no abnormalities, the analyzer was checked and found operating with calibration tolerances and was returned to service.

A check of plant documentation revealed no history of events involving the application of this particular type valve; therefore, it has been determined that this event is isolated and requires no further corrective action.