

LICENSEE EVENT REPORT

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

0 1 | N C B E P 2 | 2 | 0 0 - 0 0 0 0 0 - 0 0 | 3 | 4 1 1 1 1 | 4 | _____ | 5
7 8 9 14 15 25 26 30 37 38 58
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T
 0 1 | REPORT SOURCE | L | 6 | 0 5 0 - 0 3 2 4 | 7 | 0 5 2 1 8 1 | 8 | 0 6 1 6 8 1 | 9
60 61 66 69 74 75 80
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | From a review of the maintenance history associated with the 1" drywell nitrogen inlet
 0 3 | isolation valve, 2-CAC-V48, it was determined and subsequently verified by testing
 0 4 | that the valve would not automatically close within the specified time limit. The
 0 5 | valve was found to automatically close in approximately 1 1/2 minutes instead of the
 0 6 | required closing time of within 15 seconds. The valve was closed and deactivated in
 0 7 | accordance with technical specifications. This event did not affect the health and
 0 8 | safety of the public. Technical Specifications 3.6.3, 6.9.1.9b

0 9 | SYSTEM CODE | CAUSE CODE | CAUSE SUBCODE | COMPONENT CODE | COMP. SUBCODE | VALVE SUBCODE
 | S E | A | C | V A L V E X | F | E |
9 10 11 12 13 18 19 20
EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
 17 | LER NO. REPORT NUMBER | 8 1 | - | 0 5 3 | / | 0 3 | L | - | 0 |
21 22 23 24 26 27 28 29 30 31 32
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
 | X | H | Z | Z | 0 0 0 0 | Y | Y | A | A 4 9 9 |
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | An incorrect solenoid vent valve was installed on the valve operator which prevented
 1 1 | the operator from properly venting during an automatic valve closure. The correct
 1 2 | solenoid has been ordered and following receipt, V48 will be repaired and returned
 1 3 | to service. All involved maintenance personnel have received counselling regarding
 1 4 | the significance of this event.

1 5 | FACILITY STATUS | % POWER | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION
 | G | 0 0 0 | NA | B | Special Review
8 9 10 12 13 44 47 46 80
 1 6 | ACTIVITY CONTENT | AMOUNT OF ACTIVITY | LOCATION OF RELEASE
 | Z | Z | NA | NA
8 9 10 11 44 45 80
 1 7 | PERSONNEL EXPOSURES | NUMBER | TYPE | DESCRIPTION
 | 0 0 0 | Z | NA
8 9 11 12 13 80
 1 8 | PERSONNEL INJURIES | NUMBER | DESCRIPTION
 | 0 0 0 | NA
8 9 11 12 80
 1 9 | LOSS OF OR DAMAGE TO FACILITY | TYPE | DESCRIPTION
 | Z | NA
8 9 10 80

2 0 | ISSUED | DESCRIPTION
 | N | NA
8 9 80
 PUBLICITY (45) _____
 NAME OF PREPARER M. J. Pastva, Jr. PHONE (919) 457-9521

8106280 494

NRC USE ONLY

 GPO 917-942

LER ATTACHMENT - RO # 2-81-53

Facility: BSEP Unit No. 2

Event Date: 5/21/81

The investigation of this event revealed that an incorrect solenoid valve had been installed in the vent line of air operator of CAC-V48 during the last previous maintenance performed on July 11, 1980. CAC-V48 is an air-to-open type valve. The incorrect solenoid valve is a normally closed valve that fails closed when de-energized; however, the required solenoid valve, Model No. HP826C71, is a normally open valve that fails open when de-energized, allowing V48 to close on an automatic actuation signal. Interviews with involved maintenance personnel showed they were unaware the wrong solenoid valve had been installed. Following the installation of the wrong solenoid valve, the V48 had been successfully stroked by operator initiation and the valve had been declared operable with a closing time of less than 15 seconds. Although the operator initiated operation was considered acceptable, it has since been determined that the automatic closure feature would not have occurred within the minimum time requirement. This condition existed due to a situation where the manual actuation of the valve did not recreate exactly the same equipment configuration as the automatic signal.

CAC-V48 is a normally closed valve which serves to isolate a 1" parallel nitrogen supply line for drywell nitrogen inerting to the normally used 18" supply line isolated by CAC-V6. Due to the unavailability of the required operator solenoid valve, the V48 will remain closed and deactivated until a replacement solenoid valve is obtained at which time V48 will be repaired, tested for proper actuation and closing capability, and returned to service.

As a result of this event, the involved maintenance personnel have received specific counselling pertaining to:

1. Ensuring that proper attention is given when installing replacement parts for existing equipment in accordance with approved, applicable procedures.
2. The importance of adequate testing of equipment that has undergone maintenance to ensure the equipment can perform all of its designed functions.

In addition, a check of other similar primary containment isolation valve operator solenoid valve arrangements was performed which did not reveal any problems. A final corrective action will be to revise the periodic test so that the closure signal for the PT will duplicate the automatic closure signal equipment status. This change will detect the installation of the wrong solenoid.