

LICENSEE EVENT REPORT

Double report
Previous Report Date 9-25-78

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK

REPORT

EVENT DESCRIPTION AND PROBABLE CAUSE SEQUENCE

While fully open, RHR valves 2E11-F003A and 2E11-F047A failed to close when a close

signal was given. There were no consequences as the unit was in cold shut down and

the valves failed in the open position. (Technical Specification Section 3.5.3.2.)

SYSTEM
CODE

CAUSE
CODE

CAUSE
SUBCODE

COMPONENT CODE

COMP
SUBCODE

VALVE
SUBCODE

LER NO
REPORT
NUMBER

EVENT YEAR

SEQUENTIAL
REPORTING

OCCURRENCE
CODE

REPORT
TYPE

REVISION
NO

ACTION
TAKEN

FUTURE
ACTION

EFFECT
ON PLANT

SHUTDOWN
METHOD

HOURS

ATTACHMENT
SUBMITTED

NPRD-4
FORM SUB.

PRIME COMP.
SUPPLIER

COMPONENT
MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

In the full open position the valve gates were found to sag and call the gate guides.

The valves were repaired by welding two separate wedge guides to the inside surface

of each valve bonnet. This extended the gate guides and stopped the gate sag. The

"A" valves were then tested and found satisfactory on 1-6-79. Because the same prob-

lem could occur on 2E11-F003B and 2E11-F047B valves, the same (Continued)

FACILITY
STATUS

% POWER

OTHER STATUS

METHOD OF
DISCOVERY

DISCOVERY DESCRIPTION

ACTIVITY
RELEASED OF RELEASE

AMOUNT OF ACTIVITY

LOCATION OF RELEASE

PERSONNEL EXPOSURES
NUMBER

TYPE

DESCRIPTION

PERSONNEL INJURIES
NUMBER

DESCRIPTION

LOSS OF OR DAMAGE TO FACILITY
TYPE

DESCRIPTION

PUBLICITY
ISSUED

DESCRIPTION

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POOR ORIGINAL

481 261

Georgia Power Company
Plant E. I. Hatch
Baxley, Georgia 31513

Cause Description and Corrective Actions (Continued)

modification was made to them. They were completed and found satisfactory on 3-27-79.

POOR ORIGINAL

The 2E11-F003A and 2E11-F047A 16 inch gate valves failed to close when a close signal was given. The valves are manufactured by Walworth with a WCB body type and rated at 415 PSI. The 2E11-F003A is actuated by a Limitorque SMB-0 operator and the 2E11-F047A by a Limitorque SMB-1 Operator.

The valves are installed horizontally, causing the gate to rest heavily on the valve body guides. With the gate in the full open position, the tee head end of the gate sagged down causing the front end of the gate to turn up. This caused a gall from the point of contact on the lower gate guide to the bottom side of the valve body guide when the valve was operated. The gall became worse as the valve was operated causing the valve to bind and the torque switch to open.

A temporary fix, until the manufacturer could supply a design modification, was to set the open limit switches to stop the open stroke 2 1/2 inches before the backseat was reached. This allowed the gate to be out of the path of flow but far enough in on the guides to prevent it from sagging.

The permanent fix, received from Walworth, was to weld two separate wedge guides to the inside surface of the valve bonnet. These guides are in essence an extension of the guides in the body. The wedge guides in the bonnet are slightly thinner than the body wedge guides to insure against any rotational mismatch occurring between the bonnet and body which cause the wedge to hang up on the guides.

The guides were installed in the bonnet of both valves and a successful functional test completed on 2E11-F047A on January 6, 1979.

Because the 2E11-F003B and 2E11-F047B valves are of the same type and installation as the 'A' valves, the same problem could have occurred at a future date. To prevent such an occurrence, the same modification was made to the 'B' valves that was made to the 'A' valves. The modification was made and a successful functional test completed on March 27, 1979.

POOR ORIGINAL