LICENSEE EVENT REPORT

LICENSEE EVENT HEPONT
CONTROL BLOCK:
0 1 S C H B R 2 2 0 0 - 0 0 0 0 - 0 0 3 4 1 1 1 1 1 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6
CON'T O 1 SOURCE LL 6 0 5 0 0 0 2 6 1 OLL 2 0 1 8 1 8 1 2 1 5 8 1 9 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10 O 2 On December 1, 1981, at approximately 1700 hours with the unit at hot shutdown
0 3 conditions, it was determined that the Pressurizer Power Operated Relief Valve (PORV)
0 4 block valves did not meet their design specifications in that the valve motor opera-
[0]5] [tors did not fully shut the block valves against pressure and flow during an event
0 6 which occurred on November 30, 1981. This could be a potentially generic problem
and therefore it is being reported pursuant to Technical Specification 6.9.2.a.9.
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SYSTEM CAUSE CAUSE COMPONENT CODE COMPONENT CODE SUBCODE SUBCODE COMPONENT CODE COMPONENT CODE SUBCODE S
The pressurizer PORV block valves were closed manually at 1542 hours on November 30,
[1] 1981. Power has been removed from the valves to insure they are not opened during
normal operation. Investigation as to the cause of failure is continuing by the
licensee and vendors and will be reported as a supplement to this report when com-
1 4 pleted.
FACILITY STATUS SPOWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 1 B G 28 0 0 0 29 N/A A 31 Operator Observation
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 1 6 Z 33 Z 34 N/A PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39
1 7 0 0 0 0 37 z 38 N/A
PERSONNEL INJURIES NUMBER DESCRIPTION (4)
1 8 0 0 0 0 (40) N/A 1 8 9 11 12 LOSS OF OR DAMAGE TG . FILL. (43)
TYPE DESCRIPTION N/A
PUBLICITY 15SUED DESCRIPTION (45) 112240144 811215 NRC USE ONLY 15SUED DESCRIPTION (45) N/A S PDR
Howard T. Cox (803) 383-4524

SUPPLEMENTAL INFORMATION FOR LICENSEE EVENT REPORT 81-31

1. Cause Description and Analysis

On December 1, 1981, at approximately 1700 hours with the unit at hot shutdown conditions, it was determined that the Pressurizer Power Operated Relief Valve (PORV) block valves did not meet their design specifications (G-676258). This determination was made following a November 30, 1981 transient when the block valves failed to close against a range of system pressures (approximately 2200-1750 psig at 485°F). The specifications for the PORV block valves (Velan: 3-GM58SM) require that they close against a design pressure of 2485 psig at a steam flow of 179,000 lbs/hr. The apparent cause of failure has been preliminarily identified as an undersized motor operator (Limitorque: SMB-000-5) which will not develop sufficient torque to shut the block valve. An investigation into this apparent design deficiency is continuing.

This failure of the block valves to close could be a potentially generic problem and is therefore being reported pursuant to Technical Specification 6.9.2.a.9.

2. Corrective Action

The block valves were closed manually at 1542 hours on November 30, 1981. A new procedure, Standing Order 17, has been initiated which requires that the PORV block valves be closed, the breakers racked out and a shift foreman's clearance taken on the valves when the unit is at power.

3. Corrective Action To Prevent Recurrence

Investigation as to the cause of failure is continuing by the licensee and vendors and will be reported as a supplement to this report upon completion. Additionally, whatever corrective action necessary to assure the pressurizer PORV block valves are operable will be taken during the next refueling outage pending procurement of materials.