

DUKE POWER COMPANY
OCONEE UNIT 1

Report Number: RO-269/78-20

Report Date: September 29, 1978

Occurrence Date: August 29, 1978

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Reactor Building Cooling Unit Discharge
Valve Inoperable.

Condition Prior to Occurrence: 57% Full Power

Description of Occurrence:

On August 29, 1978, motor operated Engineered Safeguard (ES) valve LPSW-21 was determined to be inoperable in the closed position with the position indicator showing the valve in the intermediate position. Valve LPSW-21 is the cooling water discharge valve for the Reactor Building Cooling Unit (RBCU) 1B. The valve was inspected and the limit switch position indicator was adjusted to give proper position indication. However, the valve still did not operate so the motor operator was removed from service to allow mechanical disassembly. No problems were found that would cause the motor operator not to operate. The valve and operator were reassembled, installed, and verified to be operable.

Apparent Cause of Occurrence:

The limit switch was found to be out of adjustment and was corrected. The probable cause of the inoperable valve was the motor operator's clutch lever not fully engaging the gearing in the motor mode. The valve operated in the manual (handwheel) mode and the motor operator operated when removed from the valve.

Analysis of Occurrence:

There are three trains of Reactor Building cooling installed in Oconee Unit 1. Specification 3.3.4 requires all three operable if the reactor is critical. However, Specification 3.3.6 allows a seven day maintenance period on one RBCU under certain conditions. These conditions were met in that the reactor building spray systems were fully operable and available to mitigate the consequences of any postulated accident. Thus the health and safety of the public were assured.

Corrective Action:

The valve's limit switch was adjusted to indicate the valve's proper position. The motor operator was completely inspected to assure proper operation. After reassembly, the entire valve operator assembly was satisfactorily tested. No parts were replaced during the inspection of this valve.

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LICENSEE EVENT REPORT

EXHIBIT A

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

01 SICN EE 1 2 000-0000000-000 3 4 1 1 1 1 4 5

01 REPORT SOURCE L 5 015010102619 7 0181219718 8 0191219718 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During steady state operation, valve LPSW-21 (RBCU IB cooling water
03 discharge valve) failed to operate properly. The valve was closed but
04 indicated intermediate. The valve would not operate in the motor mode, but
05 would operate in the manual mode. Redundant trains of RB cooling were avail-
06 able, as well as building spray. No adverse effects to the public could
07 result.
08

09 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
SIB 11 E 12 B 13 YALVEX 14 F 15 D 16
17 LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
78 - 020 / 03 L 0
18 ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRO-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
X 18 Z 19 Z 20 0000 Y 23 Y 24 N 25

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The apparent cause was a misalignment the gearing between the valve and its
11 operator. No problems were discovered during inspections of both components.
12 The valve and motor were reassembled and proper operation was verified.
13
14

15 FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION
E 28 0157 29 NA A 31 Operator Observation 32
16 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE
Z 33 Z 34 NA NA 36
17 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION
000 37 Z 38 NA 39
18 PERSONNEL INJURIES NUMBER DESCRIPTION
000 40 NA 41
19 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION
Z 42 NA 43
20 PUBLICITY ISSUED DESCRIPTION
N 44 NA 45

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