REPORT OF ABNORMAL OCCURRENCE AND/OR INCIDENT

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
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CONTROL NO: 2947

FILE: INCIDENT REPORT FILE

| FROM: Duke Power Company<br>Charlotte, N.C. 28201<br>A.C. Thies | DATE OF DOC<br>3-12-75 | DATE REC'D<br>3-17-75 | LTR<br>XX | TWX | RPT | OTHER |
|---|---|---|---|---|---|---|
| TO:<br>Mr. Norman C. Moseley | ORIG<br>1 signed | CC OTHER | SENT AEC PDR XX<br>SENT LOCAL PDR XX | | | |
| CLASS | UNCLASS<br>XXX | PROP INFO | INPUT | NO CYS REC'D<br>1 | DOCKET NO:<br>50-270 | |

DESCRIPTION: Ltr trans the following:

ENCLOSURES: Abnormal Occurrence AO-50-270/75-2 on 2-6-75 re failure of emergency condenser cooling water valves CCW7 & CCW8..

(1 cy encl rec'd)

ACKNOWLEDGED

Do Not Remove

PLANT NAME: Oconee Unit 2

### FOR ACTION/INFORMATION DHL 3-18-75

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DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

A. C. THIES
SENIOR VICE PRESIDENT
PRODUCTION AND TRANSMISSION

P. O. BOX 2178

Regulatory Docket File

March 12, 1975


Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Re: Oconee Unit 2
Docket No. 50-270

Dear Mr. Moseley:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Unusual Event Report UE-270/75-2.

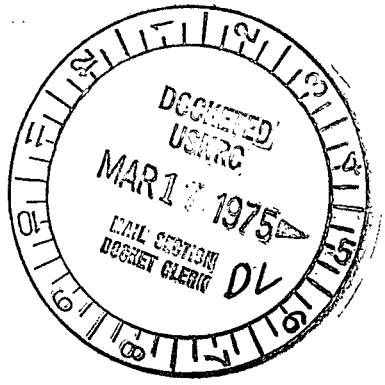
Very truly yours,

A. C. Thies

A. C. Thies

ACT:vr
Attachment

cc: Mr. Angelo Giambusso




2947

DUKE POWER COMPANY
OCONEE UNIT 2



Report No.: UE-270/75-2

Report Date: March 12, 1975



Event Date: February 6, 1975

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Event: Failure of emergency condenser cooling water valves CCW7 and CCW8

Conditions Prior to Event: Unit in cold shutdown

Description of Event:

On February 6, 1975, the single operating Oconee Unit 2 condenser circulating water (CCW) pump tripped. All six condenser outlet valves operated correctly by closing; however, two valves, CCW 7 and 8, which align the CCW discharge to the Keowee tailrace to provide a gravity flow siphon effect, failed to open. Another CCW pump was started and an investigation as to the cause of this event was initiated.

Designation of Apparent Cause of Event:

The 2B CCW pump tripped when an indicator bulb socket failed, during bulb replacement, and created a short circuit through the socket to the breaker trip circuit. The apparent cause of the failure of valves CCW 7 and 8 to open was due to a misaligned contact in a relay associated with the control circuitry for CCW 7. This prevented the open signal from reaching the controller for CCW 7. Valve CCW 8 is interlocked to CCW 7; hence, it did not open.

Analysis of Event:

The failure of emergency condenser cooling water valves CCW 7 and 8 occurred during the time the unit was in cold shutdown and thus the function of the valves was not necessary. In the event that the unit had been at power when all CCW pumps were lost, condenser vacuum would have decreased resulting in a turbine trip and then a high RC pressure reactor trip. Adequate heat removal capacity would have been available by the use of the main steam relief valves. In addition, CCW 7 and 8 could have been manually operated from the control room to obtain the gravity flow of condenser water. It is concluded that the health and safety of the public was not affected.

Corrective Action:

The indicator lamp socket for the 2B CCW pump was replaced and the relay in the control circuitry for CCW 7 was realigned. The Condenser Circulating

Water System Gravity and Recirculation Flow Test was performed on February 11, 1975 and resulted in valves CCW 7 and 8 operating properly.

Since manual actuation of these valves is available in the event of a loss of CCW pumps, and an annual surveillance test is performed to verify this automatic function, no further corrective action is considered necessary.