

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 11676
FILE: _____

FROM: Duke Power Co Charlotte, NC A C Thies		DATE OF DOC 11-13-74	DATE REC'D 11-15-74	LTR	TWX	RPT	OTHER Facsimile
TO: Mr Moseley		ORIG none signed	CC	OTHER	SENT AEC PDR <u>XXXX</u>		SENT LOCAL PDR <u>XXXX</u>
CLASS	UNCLASS <u>XXXX</u>	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-269		

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

Abnormal Occurrence on 10-30-74 (#74-18)
concerning reactor coolant pressure transmitters
out of calibrations.:.....

DO NOT REMOVE

PLANT NAME: Oconee 1

FOR ACTION INFORMATION 11-26-74 ehf

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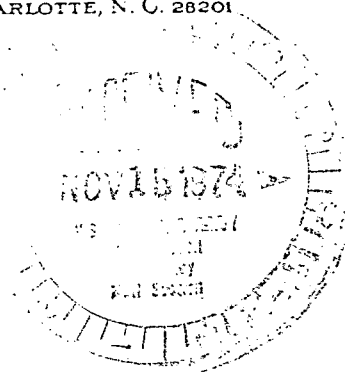
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DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

A. C. THIES
SENIOR VICE PRESIDENT
PRODUCTION AND TRANSMISSION

P. O. Box 2178

November 13, 1974



Mr. Norman C. Moseley, Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission
Region II - Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Re: Oconee Unit 1
Docket No. 50-269

REGULATORY DOCKET FILE COPY

Dear Mr. Moseley:

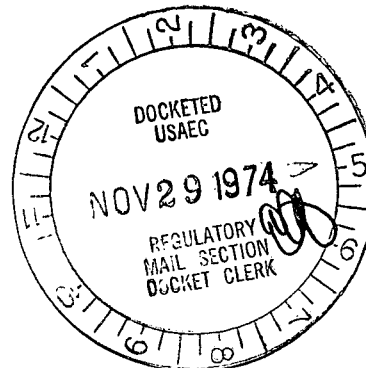
Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station
Technical Specifications, please find attached Abnormal Occurrence
Report AO-269/74-18.

Very truly yours,

A. C. Thies
A. C. Thies *EST.*

ACT:vr
Attachment

cc: Mr. Angelo Giambusso



11676

DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: 50-269/74-18

Report Date: November 13, 1974

Occurrence Date: October 30, 1974

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Reactor coolant pressure transmitters out of calibration

Conditions Prior to Occurrence: Unit in cold shutdown

Description of Occurrence:

On October 30, 1974, reactor coolant pressure transmitters RC 3A-PT1, RC 3A-PT2, RC3B-PT1, and RC 3B-PT2, for Oconee Unit 1, were found to be out of calibration by +5.9, +5.25, +2.6, and +4.97 percent, respectively. These pressure transmitters provide reactor coolant pressure information to the Reactor Protective System.

The full scale error measured as a result of transmitter drift was:

Channel A	RC 3A-PT1	+47.2 psi
Channel B	RC 3A-PT2	+42.0 psi
Channel C	RC 3B-PT1	+20.8 psi
Channel D	RC 3B-PT2	+39.7 psi

All four pressure transmitters drifted in the positive direction and were within 3.3 percent of each other. The transmitters were last calibrated on May 7, 1974 and were out of calibration in the negative direction at that time.

Analysis of Occurrence:

The Reactor Protective System high and low pressure trips are actuated by signals from the affected pressure transmitters. The high pressure trip setpoint drifted in a conservative direction and would have produced a trip at an actual pressure of 2301.8 psi rather than 2349 psi, the high pressure trip setpoint. The low pressure trip setpoint would have occurred at an actual pressure of 1758.8 psi based upon the setting of 1806 which had been set to allow instrument drift.

The protective system maximum allowable setpoints, shown in Figure 2.3-1A in the Technical Specifications, would have the lower limit lowered to 1758.8 psi.

The variable low pressure trip setpoints are based upon core outlet temperature, not pressure, and therefore can be extrapolated to intersect the low pressure trip setpoint resulting from transmitter drift at 1758.8 psi and 585°F. In relation to the core protection safety limits, Figure 2.1-1A, this point is to the left and above the safety limit, as required to maintain a conservative margin to departure from nucleate boiling (DNB). It is concluded that the health and safety of the public was not affected.

Corrective Action:

The pressure transmitters were recalibrated to the required specifications. To prevent similar occurrences, a check of these transmitters will be performed on a monthly basis until a sequence of tests can be performed to determine the cause of the instrument drift. Identical transmitters, calibrated to the same specifications, will be subjected to a similar temperature environment over a period of time to determine resulting instrument drift.

Failure Data:

The RPS pressure transmitters are Motorola Type 56PH, ID No. 1224-0301.