REPORT OF ABNORMAL OCCURRENCE AND/OR INCIDENT

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FILE: INCIDENT REPORT FILE

FROM:	DATE OF DOC	DATE REC'D	LTR	TWX	RPT	OTHER
Duke Power Co. Charlotte, N.C. William O. Parker	8-19-75	8-27-75			XX	

TO:	ORIG	CC	OTHER	SENT AEC PDR	SENT LOCAL PDR
NRC	1 Signed			XXX	XXX

CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:
	XX			1	50-270

DESCRIPTION:

Letter trans the following.....

ENCLOSURES:

Abnormal Occurrence # 75-15, on 8-5-75, Concerning Failure of amplifier in Reactor Protective System Channel D Power Imbalance circuit.....

(1 Copy Enclosure Received)

PLANT NAME: Oconee # 2

FOR ACTION/INFORMATION SAB 8-29-75

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Regulatory File Cy.

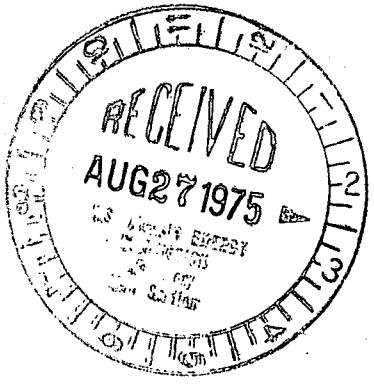
DUKE POWER COMPANY

POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

August 19, 1975



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

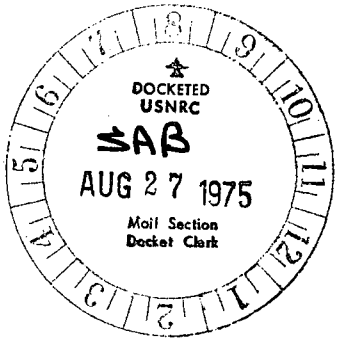
Re: Oconee Unit 2
Docket No. 50-270

Dear Mr. Moseley:

Pursuant to Section 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Abnormal Occurrence Report AO-270/75-15.

Very truly yours,

William O. Parker, Jr.



ROS:vr
Attachment

cc: Mr. Roger S. Boyd

9136

DUKE POWER COMPANY
OCONEE UNIT 2

Report No.: AO-270/75-15

Report Date: August 19, 1975

Occurrence Date: August 5, 1975

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Occurrence: Failure of amplifier in Reactor Protective System Channel D power imbalance circuit

Conditions Prior to Occurrence: Trip recovery in progress

Description of Occurrence:

On August 5, 1975, during surveillance testing of Oconee Unit 2 Reactor Protective System (RPS) Channel D, it was noted that a faulty amplifier in the power imbalance circuit of the power-imbalance-flow trip function had resulted in a trip setpoint less conservative than allowed by Technical Specification 2.3. For this test, RPS Channel D was placed in manual bypass, leaving the system in a two-out-of-three logic. Power and imbalance test signals were set and a flow test signal then decreased to establish a trip point. Because of the faulty amplifier in the imbalance circuit, the trip point decreased to 109.5×10^6 lbs/hr rather than the required trip point of 110×10^6 lbs/hr. RPS Channel D was left in manual bypass since a replacement amplifier was not immediately available. The last periodic test of RPS Channel D was completed on July 9, 1975.

Designation of Apparent Cause of Occurrence:

A faulty amplifier was determined to be the apparent cause of this occurrence. This was the first failure of this component and is regarded as a random failure.

Analysis of Occurrence:

This amplifier is part of the power imbalance circuit of the power-imbalance-flow trip function. The failure of this amplifier resulted in a trip point less conservative than required; however, a trip of two of the three remaining RPS channels would have performed this function if necessary. It is concluded that the health and safety of the public was not affected.

Corrective Action:

The faulty amplifier will be replaced as soon as a replacement is available. Until that time, RPS Channel D will remain in manual bypass. The Oconee periodic surveillance program is considered adequate to identify random failures of this nature.