

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 1026

FILE: INCIDENT REPORT

FROM: Duke Power Company Charlotte, N.C. 28201 A.C. Thies		DATE OF DOC 1-21-75	DATE REC'D 1-30-75	LTR XX	TWX	RPT	OTHER
TO: Mr. Norman C. Moseley		ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>XX</u>		SENT LOCAL PDR <u>XX</u>
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 11	DOCKET NO: 50-269		

DESCRIPTION: Ltr trans the following:

ENCLOSURES: Abnormal Occurrence AO-50-269/
75-1 on 1-7-75 re failure of Reactor
Coolant Pressure Buffer Amplifier....

(1 Orig cy encl' rec'd) **ACKNOWLEDGED**

Do Not Remove

PLANT NAME: Oconee Unit 1

FOR ACTION/INFORMATION

DHL 1-30-75

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<input checked="" type="checkbox"/> MUNTZING/STAFF	<input checked="" type="checkbox"/> KNIGHT	<input checked="" type="checkbox"/> KASTNER	GOULBOURNE (S)	B. HURT
<input checked="" type="checkbox"/> CASE	<input checked="" type="checkbox"/> PAWLICKI	BALLARD	KREUTZER (E)	PLANS
GIAMBUSSO	<input checked="" type="checkbox"/> SHAO	SPANGLER	LEE (S)	MCDONALD
BOYD	<input checked="" type="checkbox"/> STELLO	ENVIRO	MAIGRET (S)	CHAPMAN
MOORE (S) (BWR)	<input checked="" type="checkbox"/> HOUSTON	MULLER	REED (E)	DUBE w/input
DEYOUNG (S) (PWR)	<input checked="" type="checkbox"/> NOVAK	DICKER	SERVICE (S)	E. COUPE
SKOVHOLT (S)	<input checked="" type="checkbox"/> ROSS	KNIGHTON	<input checked="" type="checkbox"/> SHEPPARD (S)	R. Hartfield (2)
GOLLER (S)	<input checked="" type="checkbox"/> IPPOLITO	YOUNGBLOOD	SLATER (E)	<input checked="" type="checkbox"/> KLEGGER
P. COLLINS	TEDESCO	REGAN	SMITH (S)	<input checked="" type="checkbox"/> F. WILLIAMS
DENISE	<input checked="" type="checkbox"/> LONG	PROJECT LDR	TEETS (S)	
REG OPR	<input checked="" type="checkbox"/> LAINAS	HARLESS	WILLIAMS (E)	
<input checked="" type="checkbox"/> FILE & REGION	<input checked="" type="checkbox"/> BENAROYA		WILSON (S)	
<input checked="" type="checkbox"/> T.R. WILSON	<input checked="" type="checkbox"/> STEELE		INGRAM (S)	
	<input checked="" type="checkbox"/> VOLIMER			

EXTERNAL DISTRIBUTION

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1-NEWTON ANDERSON		1-J. RUNKLES, RM E-201 G.T.
5-ACRS SENT TO LIC. ASST. Sheppard 1-30-75		

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

Regulatory Docket File

A. C. THIES
SENIOR VICE PRESIDENT
PRODUCTION AND TRANSMISSION

P. O. Box 2178

January 21, 1975

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

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-269/75-1.

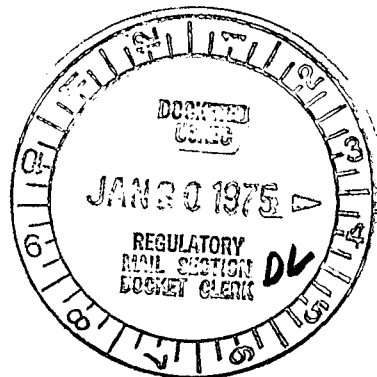
Very truly yours,



A. C. Thies

ACT:ge
Attachment

cc: Mr. Angelo Giambusso



Duke Power Company
Oconee Unit 1

Report No.: AO-269/75-1

Report Date: January 21, 1975

Received w/ Ltr Dated 1-21-75

Occurrence Date: January 7, 1975

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Failure of Reactor Coolant Pressure Buffer Amplifier.

Conditions Prior to Occurrence: Unit in refueling shutdown.

Description of Occurrence:

On January 7, 1975, during surveillance testing of Oconee Unit 1 Reactor Protective System (RPS) Channel A, it was noted that the output of the Reactor Coolant (RC) pressure buffer amplifier would not respond properly to its input. The buffer amplifier receives its input from the associated RC pressure transmitter and converts a current signal to a voltage signal compatible with the high and low pressure trip bistables and the pressure-temperature function generator. The buffer amplifier responded properly to inputs which correspond to pressures up to 2085 psig; however, it would not respond to inputs simulating greater pressure. The buffer amplifier was repaired, tested and returned to service. The Channel A buffer amplifier was last checked on December 20, 1974.

Designation of Apparent Cause of Occurrence:

The cause of the buffer amplifier failure was traced to a faulty operational amplifier in the circuit. This was the first failure of this component and is regarded as a random failure.

Analysis of Occurrence:

This buffer amplifier supplies inputs to the Channel A high and low pressure trips and the pressure-temperature trip. The nature of the failure would have prevented a Channel A high pressure trip; however, a trip of two of the three remaining operable RPS Channels would have performed this function if necessary. The Channel A low pressure trip would have operated properly as the buffer amplifier failure did not affect the lower range of the amplifier. The pressure-temperature trip operates on decreasing pressure. If the unit had been at normal operating pressure and temperature, 2155 psig and 601°F, at the time of the failure of the amplifier, this Channel would have inadvertently tripped. This would have been in a conservative direction. It is concluded that the health and safety of the public was not affected.

Corrective Action:

The cause of the buffer amplifier failure was isolated to a specific component in the circuit. This component was replaced and the amplifier was satisfactorily tested. The Oconee periodic surveillance program is considered adequate to identify random failures of this nature.

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ROOM 515
REGULATORY AFFAIRS
ATLANTA, GA.
JAN 23 9 17 AM '75