

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 11775

FILE: _____

FROM: Duke Power Co Charlotte, NC A C Thies		DATE OF DOC 11-14-74	DATE REC'D 11-18-74	LTR XXXX	TWX	RPT	OTHER Facsimile
TO: Mr Moseley		ORIG none signed	CC	OTHER	SENT AEC PDR <u>xx</u>		SENT LOCAL PDR <u>xx</u>
CLASS	UNCLASS XXXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-287		

DESCRIPTION: Ltr trans the following: PLANT NAME: Oconee 3	ENCLOSURES: Abnormal Occurrence on 11-2-74 (#74-7) concerning reactor coolant pressure transmitter which was out of calibration.....
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FOR ACTION INFORMATION: 11-26-74 ehf

BUTLER (L) W/ Copies	SCHWENGER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/ Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	W/ Copies

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INTERNAL DISTRIBUTION

REG FILE	TECH REVIEW	DENTON	LIC ASST	A/T IND
AEC PDR	SCHROEDER	GRIMES	DIGGS (L)	BRAITMAN
NSIC, ROOM P-506A	MACCARY	GAMMILL	GEARIN (L)	SALTZMAN
MUNTZING STAFF	KNIGHT	KASTNER	GOULBOURNE (L)	B. HURT
CASE	AWLICKI	BALLARD	KREUTZER (E)	PLANS
GIAMBUSSO	SHAO	SPANGLER	LEE (L)	MCDONALD
BOYD	STELLO	ENVIRO	MAIGRET (L)	CHAPMAN
MOORE (L) (SWR)	HOUSTON	MULLER	REED (E)	DUBE w/ input
DEYOUNG (L) (PWR)	OVAK	DICKER	SERVICE (L)	E. COUPE
SKOVHOLT (L)	ROSS	KNIGHTON	SHEPPARD (L)	THOMPSON (2)
GOLLER (L)	APPOLITO	YOUNGBLOOD	SLATER (E)	LECKER
P. COLLINS	TEDESCO	REGAN	SMITH (L)	EISENHUT
DENISE	LONG	PROJECT LDR	TEETS (L)	
REG OPR	AINAS	HARLESS	WILLIAMS (E)	
FILE & REGION (3)	LENAROYA		WILSON (L)	
MORRIS	VOLINER			
STEELE				

EXTERNAL DISTRIBUTION

LOCAL PDR <i>Welkalle, S.C.</i>	NATIONAL LABS	1 - PDR SAN/LANNY
TIC (ABERNATHY) (1)(2)(3)	ASLEP (E. W. D. Rm 520)	1 - BROOKHAVEN NAT LAB
NSIC (BUCHANAN)	W. PENNINGTON, Rm E-201 GT	1 - G. ULRIKSON, ORNL
1 - ASLB	B&M SHINER ROAD, Rm E-201 GT	1 - AGMED (RUTH GUSMAN)
1 - Newton Anderson	CONSULTANTS	Rm B-127 GT
16 - ACRS HOLDING	NEW MARK BLOME, AGABIAN	1 - R. D. MUELLER, Rm E-201 GT
Bent to Lic Asst. <i>Sheppard</i>		

Ad PL

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 14, 1974

REGULATORY DOCKET FILE COPY

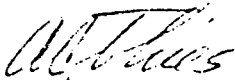
Mr. Norman C. Moseley, Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission
Region II - Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Re: Oconee Unit 3
Docket No. 50-287

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-270/74-7.

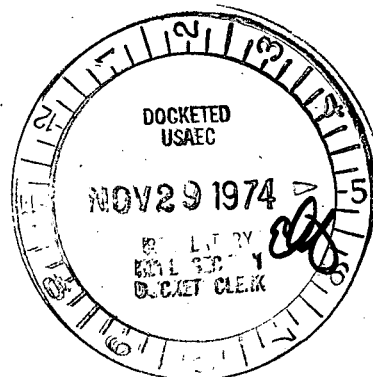
Very truly yours,



A. C. Thies

ACT:vr
Attachment

cc: Mr. Angelo Giambusso



11775

DUKE POWER COMPANY
OCONEE UNIT 3

Report No.: AO-287/74-7

Report Date: November 14, 1974

Occurrence Date: November 2, 1974

Facility: Oconee Unit 3, Seneca, South Carolina

Identification of Occurrence: Reactor coolant pressure transmitter out of calibration

Conditions Prior to Occurrence: Unit in cold shutdown

Description of Occurrence:

On November 2, 1974, the calibration of the reactor coolant pressure transmitters for Oconee Unit 3 was checked. The Channel A pressure transmitter, RC3A-PT1, was found to be out of calibration by +3.2 percent. The full scale error measured as a result of transmitter drift was +25.6 psi. The pressure transmitters for Channels B, C, and D were within the required 2 percent limit. These transmitters provide reactor coolant pressure information to the Reactor Protective System.

Analysis of Occurrence:

The Reactor Protective System (RPS) high and low pressure trips are actuated by signals from these pressure transmitters. The RPS logic produces a trip when two out of four channels trip. Due to the redundancy present in the RPS, the calibration of one pressure transmitter did not affect the safe operation of the unit.

The high pressure trip setpoint for the Channel A detector drifted in a conservative direction and would have produced a trip at an actual pressure of 2323.4 psi rather than 2349 psi, the high pressure trip setpoint. The low pressure trip would have occurred at an actual pressure of 1780.4 psi based upon the setting of 1806 psi which had been set to allow for instrument drift. It can be shown that this low pressure trip setting would result in operation within the core protection safety limits and a conservative margin to departure from nucleate boiling (DNB) was maintained even for this out of calibration transmitter. It is concluded that the health and safety of the public was not affected.

Corrective Action:

The pressure transmitter was 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 the resulting instrument drift.

Failure Data:

The RPS pressure transmitter is a Motorola Type 56PH ID No. 1224-0301. Similar occurrences are discussed in Reports AO-269/74-8 dated May 17, 1974 and AO-269/74-18 dated November 13, 1974.