

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 1505

FILE: 810

FROM: Duke Power Company Charlotte, N.C. 28201 Mr. A.C. Thies			DATE OF DOC 2-22-74	DATE REC'D 2-25-74	LTR X	MEMO	RPT	OTHER
TO: A. Giambusso			ORIG 2 signed	CC	OTHER	SENT AEC PDR SENT LOCAL PDR		XXX XXX
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 2		DOCKET NO: 50-269		

DESCRIPTION:
Ltr reporting an abnormal occurrence at the Oconee Nuclear Station Unit #1....trans the following....

ENCLOSURES:
Abnormal Occurrence Report No. AO-269/74-3 concerning....Lockout of Startup Transformers..

ACKNOWLEDGED

(2 cys encl rec'd)

DO NOT REMOVE

PLANT NAME: Oconee #1

FOR ACTION/INFORMATION 2-25-74 JB

BUTLER(L) W/ Copies	✓ SCHWENCER(L) W/7 Copies	ZIEMANN(L) W/ Copies	REGAN(E) W/ Copies
CLARK(L) W/ Copies	STOLZ(L) W/ Copies	DICKER(E) W/ Copies	W/ Copies
GOLLER(L) W/ Copies	VASSALLO(L) W/ Copies	KNIGHTON(E) W/ Copies	W/ Copies
KNIEL(L) W/ Copies	SCHEMEL(L) W/ Copies	YOUNGBLOOD(E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ REG FILE	TECH REVIEW	DENTON	A/T IND
✓ AEC PDR	✓ HENDRIE	GRIMES	BRAITMAN
✓ OGC, ROOM P-506A	SCHROEDER	GAMMILL	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	KASTNER	B. HURT
✓ CASE	✓ KNIGHT	BALLARD	✓ GOULBOURNE (L)
GIAMBUSSO	✓ PAWLICKI	SPANGLER	LEE (L)
BOYD	✓ SHAO		MAIGRET (L)
✓ MOORE (L) (BWR)	✓ STELLO	ENVIRO	SERVICE (L)
DEYOUNG (L) (PWR)	✓ HOUSTON	MULLER	SHEPPARD (E)
SKOVHOLT (L)	✓ NOVAK	DICKER	SMITH (L)
P. COLLINS	✓ ROSS	KNIGHTON	TEETS (L)
DENISE	✓ IPPOLITO	YOUNGBLOOD	WADE (E)
✓ REG OPR	✓ TEDESCO	REGAN	WILLIAMS (E)
FILE & REGION(3)	✓ LONG	PROJECT LDR	WILSON (L)
✓ MORRIS	✓ LAINAS		S. REED (L)
✓ STEELE	✓ BENAROYA	HARLESS	
	✓ VOLLMER		

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR ✓ Walhalla, S.C.	(1) (2X10) NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - DTIE (ABERNATHY)	1-ASLBP (E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓ 1 - NSIC (BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB (YORE/SAYRE/ WOODARD/"H" ST.	1-CONSULTANT'S	1-AGMED (Ruth Gussman)
✓ 16 - CYS ACRS HOLDING Sent to Goulbourne 2-25-74	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT

DUKE POWER COMPANY

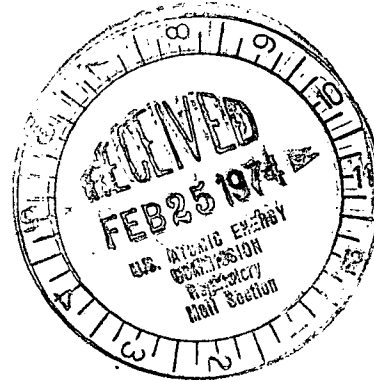
POWER BUILDING

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

A. C. THIES
SENIOR VICE PRESIDENT
PRODUCTION AND TRANSMISSION

P. O. Box 2178

February 22, 1974



Mr. Angelo Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Re: Oconee Unit 1
Docket No. 50-269

Dear Mr. Giambusso:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Abnormal Occurrence Report AO-269/74-3, "Lockout of Startup Transformers."

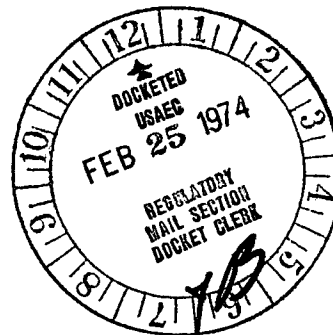
Very truly yours,

A. C. Thies

ACT:vr

Attachment

cc: Mr. Norman C. Moseley



1505

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

Report Number: AO-269/74-3
Report Date: February 22, 1974
Occurrence Date: February 10, 1974
Facility: Oconee Unit 1
Identification of Occurrence: Lockout of Startup Transformers
Condition Prior to Occurrence: Steady-State Operation at 100 Percent Power

Description of Occurrence:

On February 10, 1974, Oconee Unit 1 was operating at 100 percent full power and Oconee Unit 2 was at cold shutdown for maintenance. Oconee operators were performing Electromechanical Relay Breaker Trip Test, PT/1&2/B/610/5B. The testing of PCB-18 (startup transformer switchyard circuit breaker) required that Startup Transformer CT-1 not be in service and that a redundant power supply (CT-2) be connected to Unit 1. The redundant power supply was connected by closing the normally open disconnects 1, 2, 3, and 4 as noted on the enclosed electrical system drawing. It was then necessary to open CT-1 switchyard disconnects (PCB-17 and PCB-18) to isolate CT-1. When PCB-18 was opened, this removed power from the high side of CT-1. CT-1 was then backcharged through the 6.9 KV winding from CT-2. The startup bus differential relay picked up, initiating the lockout of CT-2. In a similar manner, CT-1 was also locked out by the differential relay. Both Keowee hydro units then started automatically and closed into the standby bus and the main feeder bus.

Regulatory Operations, Region II, was verbally notified of the occurrence on February 11, 1974.

Designation of Apparent Cause of Occurrence:

Oconee Technical Specification 3.7 requires that two startup transformers shall be operable and available to the unit's 4160 volt Main Feeder Buses No. 1 and No. 2, except that one of the two startup transformers may be removed from service for 48 hours for maintenance.

The occurrence resulted because Periodic Test Procedure PT/1&2/B/610/5B incorrectly called for a sequence of steps that resulted in the electrical system protective relays locking out CT-1 and CT-2.

Analysis of Occurrence:

The occurrence resulted in the loss of availability of startup transformers CT-1 and CT-2 for approximately ten minutes. No safety problem resulted since Unit 1 was operating at power and Unit 2 was at cold shutdown. Had Unit 1 required an alternate power source during this time, other redundant sources were available, including both Keowee hydro units through the underground feeder and the Lee gas turbines through the 100 KV circuit. Because of system redundancy and the short period of unavailability, it is concluded the occurrence did not adversely affect the safe operation of the unit or the health and safety of the public.

Corrective Action:

Periodic test procedure PT/1&2/B/610/5B will be revised to prevent a similar occurrence.

