

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
(TEMPORARY FORM)

CONTROL NO: 8873

FILE:

<b>FROM:</b> Duke Power Co Charlotte, NC 28201 A C Thies		<b>DATE OF DOC</b> 8-23-74	<b>DATE REC'D</b> 8-28-74	<b>LTR</b> XXX	<b>TWX</b>	<b>RPT</b>	<b>OTHER</b>
<b>TO:</b> Mr Moseley		<b>ORIG</b> 1 signed	<b>CC</b>	<b>OTHER</b>	<b>SENT AEC PDR XX</b> <b>SENT LOCAL PDR XX</b>		
<b>CLASS.</b>	<b>UNCLASS</b> XXX	<b>PROP INFO</b>	<b>INPUT</b>	<b>NO CYS REC'D</b> 1	<b>DOCKET NO:</b> 50-270		

**DESCRIPTION:**

Ltr trans the following:

**ENCLOSURES:**

REPORT: Abnormal Occurrence #74-10 on 8-9-74 re failure of reactor building fan motor.

**ACKNOWLEDGED**

**PLANT NAME:** Oconee #2

FOR ACTION/INFORMATION 8-28-74 ehf

BUTLER (L)	SCHWENCER (L)	ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	LEAR
W/ CYS	W/ CYS	W/ CYS	W/ CYS
FARE (L)	WISSALL (L)	KNIGHTON (E)	W/ CYS
W/ CYS	W/ CYS	W/ CYS	W/ CYS
KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	W/ CYS
W/ CYS	W/4 CYS	W/ CYS	W/ CYS

**INTERNAL DISTRIBUTION**

<input checked="" type="checkbox"/> <del>REG FILE</del>	<b>TECH REVIEW</b>	DENTON	LIC ASST	A/T IND
<input checked="" type="checkbox"/> AEC PDR	<input checked="" type="checkbox"/> SCHROEDER	GRIMES	DIGGS (L)	BRAITMAN
<input checked="" type="checkbox"/> OGC	<input checked="" type="checkbox"/> MACCARY	GAMMILL	GEARIN (L)	SALTZMAN
<input checked="" type="checkbox"/> MUNTZING/STAFF	<input checked="" type="checkbox"/> KNIGHT	KASTNER	GOULBOURNE (L)	B. HURT
<input checked="" type="checkbox"/> CASE	<input checked="" type="checkbox"/> PAWLICKI	BALLARD	KREUTZER (E)	
GIAMBUSSO	<input checked="" type="checkbox"/> SHAO	SPANGLER	LEE (L)	<b>PLANS</b>
BOYD	<input checked="" type="checkbox"/> STELLO		MAIGRET (L)	MCDONALD
MOORE (L)(LWR-2)	<input checked="" type="checkbox"/> HOUSTON	<b>ENVIRO</b>	REED (E)	CHAPMAN
DEYOUNG (L)(LWR-1)	<input checked="" type="checkbox"/> NOVAK	MULLER	SERVICE (L)	DUBE w/input
SKOVHOLT (L)	<input checked="" type="checkbox"/> ROSS	DICKER	<input checked="" type="checkbox"/> SHEPPARD (L)	E. COUPE
GOLLER (L)	<input checked="" type="checkbox"/> IPPOLITO	KNIGHTON	SLATER (E)	
P. COLLINS	<input checked="" type="checkbox"/> TEDESCO	YOUNGBLOOD	SMITH (L)	<input checked="" type="checkbox"/> D. THOMPSON (2)
DENISE	<input checked="" type="checkbox"/> LONG	REGAN	TEETS (L)	<input checked="" type="checkbox"/> KLECKER
<input checked="" type="checkbox"/> <del>REG OPR</del>	<input checked="" type="checkbox"/> LAINAS	PROJECT MGR	WILLIAMS (E)	<input checked="" type="checkbox"/> EISENHUT
FILE & REGION (2)	<input checked="" type="checkbox"/> BENAROYA		WILSON (L)	
<input checked="" type="checkbox"/> MORRIS	<input checked="" type="checkbox"/> VOLLMER	HARLESS		
<input checked="" type="checkbox"/> STEELE				

**EXTERNAL DISTRIBUTION**

<input checked="" type="checkbox"/> 1 - LOCAL PDR Walhalla, SC	(1)(2)(10)-NATIONAL LABS	1-PDR-SAN/LA/NY
<input checked="" type="checkbox"/> 1 - TIC (ASERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
<input checked="" type="checkbox"/> 1 - NSIC (BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	1-G. ULRINSON, CRNL
1 - ASLB	1-BGM SWINEBROAD, Rm E-201 GT	1-AGMED (RUTH GUSMAN)
1 - Newton Anderson	1-CONSULTANTS	Rm B-123 GT
5 - ACRS SENT TO LIC ASST <i>sheppard</i>		

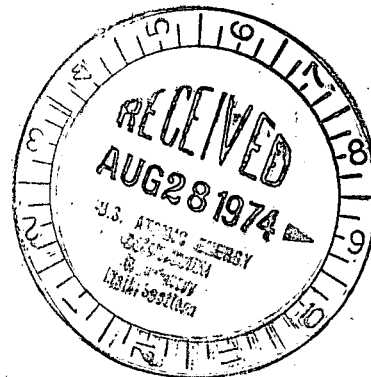
DUKE POWER COMPANY  
POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

A. C. THIES  
SENIOR VICE PRESIDENT  
PRODUCTION AND TRANSMISSION

P. O. Box 2178

August 23, 1974

Regulatory Docket File



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 2  
Docket No. 50-270

Dear Mr. Giambusso:

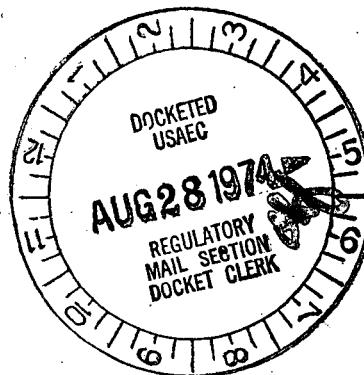
Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station  
Technical Specifications, please find attached Abnormal Occurrence  
Report AO-270/74-10.

Very truly yours,

*Paul H. Barton*  
A. C. Thies  
*For ACT*

ACT:gje  
Attachment

cc: Mr. Angelo Giambusso



8873

DUKE POWER COMPANY  
OCONEE UNIT 2

Report No.: AO-270/74-10

Report Date: August 23, 1974

Occurrence Date: August 9, 1974

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Occurrence: Failure of Reactor Building Fan Motor Starter

Conditions Prior to Occurrence: Cold Shutdown, Partially Drained

Description of Occurrence:

On August 9, 1974, Oconee Unit 2 4160 volt auxiliary loads were being supplied from the standby buses which were energized through the 100 kV transmission line from Lee Steam Station. At 1545, a dead bus transfer was made which transferred Unit 2 auxiliary loads to Startup Transformer CT2. A fault in the Reactor Building Cooling Unit (RBCU) 2A fan motor starter resulted in the tripping of the supply breaker to Motor Control Center (MCC) 2XS1 (see Figure 1), located in the 600 volt Load Center 2X8. De-energization of MCC 2XS1 resulted in the loss of several Engineered Safeguards components. The fault in RBCU 2A fan motor starter was cleared in 15 minutes, and power was restored to the Engineered Safeguards components.

Designation of Apparent Cause of Occurrence:

The Reactor Building Cooling Unit 2A fan was operating at high speed at the time the Standby Bus was de-energized. Normally, the high speed contactors are opened by a spring upon loss of power so that when power is regained, the fan motor starts in slow speed and automatically shifts to high speed after an eight-second time delay. This prevents large starting current transients. In this instance, the RBCU fan motor starter high-speed contactor did not open upon loss of power due to a weak spring. Thus, when power was regained, the motor drew a large starting surge of current.

Normally, the motor would be protected by the 300 amp circuit breaker supplying the motor starter on MCC 2XS1. It was discovered, however, that the breaker supplying 2MCC 2XS1 on 600 volt Load Center 2X8 was also set for a 300 amp trip point. Thus, instead of the breaker on MCC 2XS1 tripping, the breaker on 2X8 tripped resulting in loss of MCC 2XS1 and subsequent loss of some Engineered Safeguard components.

Analysis of Occurrence:

Unit 2 was in a cold shutdown condition for one week prior to this incident. The operating low pressure injection pump and decay heat removal cooler were

under the control of the unaffected Engineered Safeguards Channel and continued operation. The loss of a portion of the Engineered Safeguard Components would not have affected the safety of the unit even had it been operating due to the redundancy of Engineered Safeguards components. It is therefore concluded that the health and safety of the public was not affected.

Corrective Action:

The starter contactor mechanism on RBCU fan motor 2A starter was repaired. The spring return will now apply sufficient force to open the high-speed contactors upon loss of supply voltage. The motor starter contact mechanisms for all RBCU fans for all three Oconee units were inspected with no other discrepancies noted. As part of the preventative maintenance program, the RBCU fan starters will be inspected annually to prevent future occurrences. A station modification will be implemented to change the amperage settings of the supply breaker on Load Center 2X8 to 600 amps in order to provide the proper sequence of tripping should another malfunction occur.

Failure Data:

The Clark Controller Company, Part No. 6260 (W32), Size 5 Motor Starter.

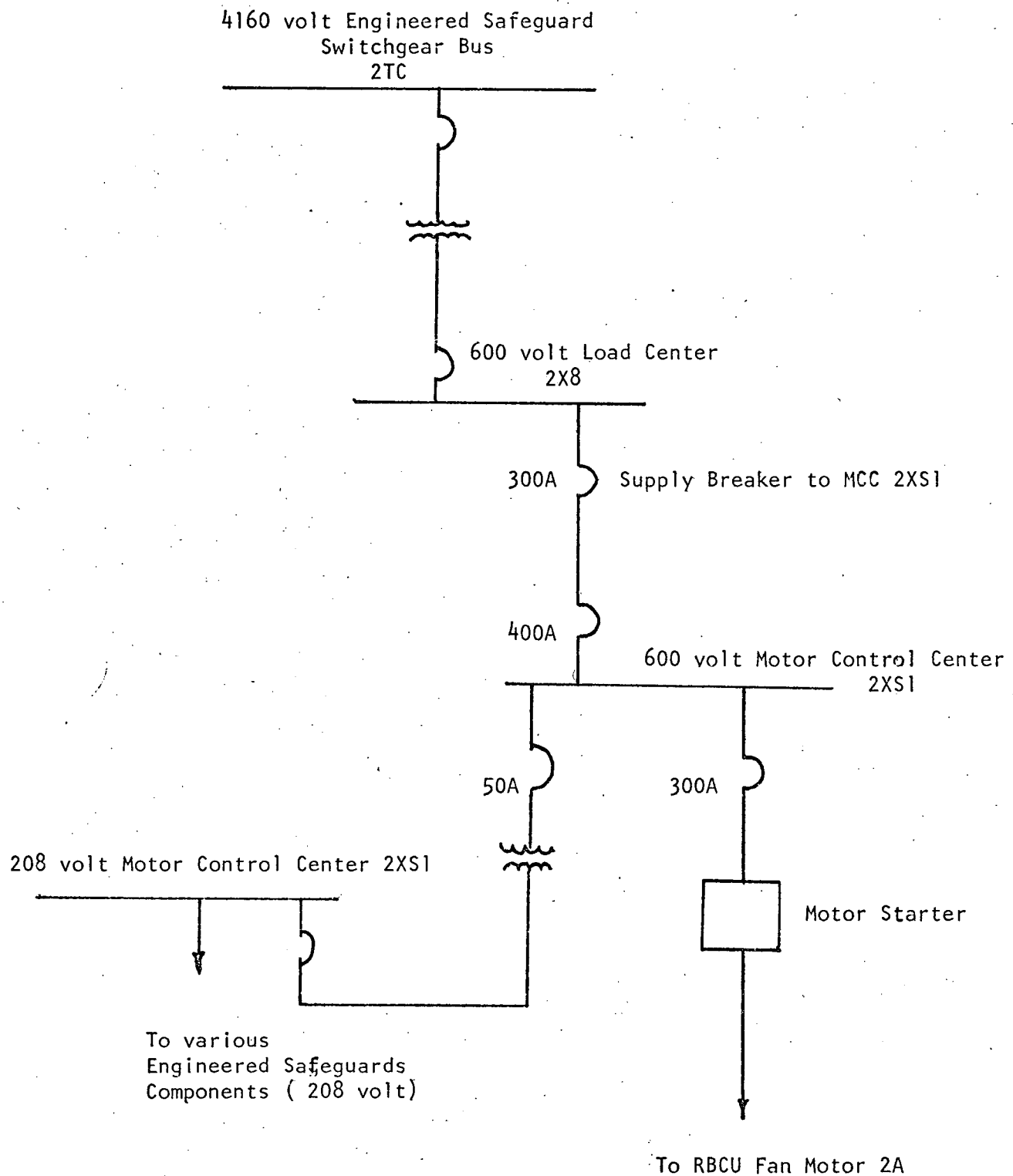


Figure 1