

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 1025

FILE: INCIDENT REPORT

FROM: Duke Power Company Charlotte, N.C. 28201 Mr. A.C. Thies		DATE OF DOC 1-20-75	DATE REC'D 1-30-75	LTR X	TWX	RPT	OTHER
TO: N.C. Moseley		ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>XXX</u>		SENT LOCAL PDR <u>XXX</u>
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:		
	XXX			40	50-269		
DESCRIPTION:				ENCLOSURES:			
Ltr reporting an abnormal occurrence trans the following....				Abnormal Occurrence No. UR-269/74-9..... concerning...Reactor Bldg. Cooling Unit Logic Error.....			
PLANT NAME: Oconee #1				(40 cys encl rec'd)			

FOR ACTION/INFORMATION 1-30-75 JB

BUTLER (S) W/ Copies	SCHWENCER (S) W/ Copies	ZIEMANN (S) W/ Copies	REGAN (E) W/ Copies
CLARK (S) W/ Copies	STOLZ (S) W/ Copies	DICKER (E) W/ Copies	LEAR (S) W/ Copies
PARR (S) W/ Copies	VASSALLO (S) W/ Copies	KNIGHTON (E) W/ Copies	SPEIS (S) W/ Copies
KNIEL (S) W/ Copies	PURPLE (S) W/4 Copies	YOUNGBLOOD (E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC. ASST.</u>	<u>A/T IND</u>
<u>REG PDR</u>	<u>SCHROEDER</u>	<u>GRIMES</u>	<u>DIGGS (S)</u>	<u>BRAITMAN</u>
<u>CCC, ROOM P-506-A</u>	<u>MACCARRY</u>	<u>GAMMILL</u>	<u>GEARIN (S)</u>	<u>SALTZMAN</u>
<u>GOSSICK /STAFF</u>	<u>KNIGHT</u>	<u>KASTNER</u>	<u>GOULBOURNE (S)</u>	<u>B. HURT</u>
<u>CASE</u>	<u>PAWLICKI</u>	<u>BALLARD</u>	<u>KREUTZER (E)</u>	<u>PLANS</u>
<u>GIAMBUSO</u>	<u>SHAO</u>	<u>SPANGLER</u>	<u>LEE (S)</u>	<u>MCDONALD</u>
<u>BOYD</u>	<u>STELLO</u>	<u>ENVIRO</u>	<u>MAIGRET (S)</u>	<u>CHAPMAN</u>
<u>MOORE (S) (BWR)</u>	<u>HOUSTON</u>	<u>MULLER</u>	<u>REED (E)</u>	<u>DUBE w/input</u>
<u>DEYOUNG (S) (PWR)</u>	<u>NOVAK</u>	<u>DICKER</u>	<u>SERVICE (S)</u>	<u>E. COUPE</u>
<u>SKOVHOLT (S)</u>	<u>CROSS</u>	<u>KNIGHTON</u>	<u>SHEPPARD (S)</u>	<u>R. Hartfield (2)</u>
<u>GOLLER (S)</u>	<u>IPPOLITO</u>	<u>YOUNGBLOOD</u>	<u>SLATER (E)</u>	<u>KLECKER</u>
<u>P. COLLINS</u>	<u>TEDESCO</u>	<u>REGAN</u>	<u>SMITH (S)</u>	<u>F. WILLIAMS</u>
<u>DENISE</u>	<u>LONG</u>	<u>PROJECT LDR</u>	<u>TEETS (S)</u>	
<u>REG OPR</u>	<u>LAINAS</u>	<u>HARLESS</u>	<u>WILLIAMS (E)</u>	
<u>FILE & REGION</u>	<u>BENAROYA</u>		<u>WILSON (S)</u>	
<u>T.R. WILSON</u>	<u>STEELE</u>		<u>INGRAM (S)</u>	
	<u>VOLIMER</u>			

EXTERNAL DISTRIBUTION

<u>1-LOCAL PDR <u>Waltalla, S.C.</u></u>	(1) (2) (10) -NATIONAL LABS	1-PDR SAN/LA/NE (4)
<u>1-TIC (ABERNATHY)</u>	1-W. PENNINGTON, RM E-201 G.T.	1-BROOKHAVEN NAT LAB
<u>1-NSIC (BUCHANAN)</u>	1-CONSULTANTS	1-G. ULRIKSON, ORNL
1-ASLB	NEWMARK/BLUME/ASBABIAN	1-AGMED (RUTH GUSSMAN) RM B-127 G.T.
1-NEWTON ANDERSON		1-J. RUNKLES, RM E-201 G.T.
<u>5-ACRS SENT TO LIC. ASST.</u>		

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

January 20, 1975

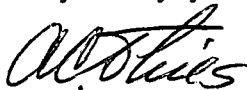
Mr. Norman C. Moseley, Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission
Region II - Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

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 Unusual Event
Report UE-269/74-9.

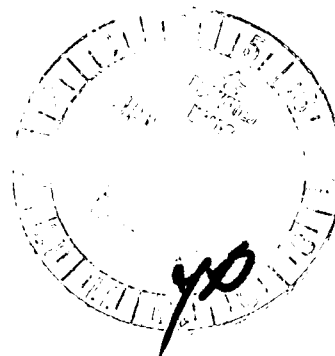
Very truly yours,



A. C. Thies

ACT:vr
Attachment

cc: Mr. Angelo Giambusso



1025

DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: UE-269/74-9

Report Date: January 20, 1975

Event Date: December 4, 1974

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Event: Reactor Building Cooling Unit Logic Error

Conditions Prior to Event: Unit in Refueling Shutdown

Description of Event:

On December 4, 1974, the annual Reactor Building Cooling Unit (RBCU) Engineered Safeguard (ES) and Performance Test, PT/O/A/0160/03, was conducted for Oconee Unit 1. The test confirmed that RBCU fans 1A and 1B shifted from high speed to slow speed, as designed, when ES Channel 5 tripped. RBCU fan 1C, which was idle with its controller in the "auto" position, started and went to high speed as the other two fans shifted to slow speed. When ES Channel 6 was tested, RBCU fans 1B and 1C shifted from high speed to slow speed, as designed; however, RBCU fan 1A, which was idle with its controller in the "auto" position, started and went to high speed.

The Reactor Building Cooling System Design description in the Final Safety Analysis Report Section 6.3.2.1 states that upon receipt of a signal from the Engineered Safeguards Actuation System, the two operating fans reduce speed and the third fan starts in reduced speed. If both ES Channels 5 and 6 are actuated, this description is accurate; however, if only one channel is actuated, the third fan starts and goes to high speed as was described above.

Designation of Apparent Cause of Event:

The normal operating configuration of the RBCU fans is two in high speed and the third fan idle with its controller in the automatic position. If one fan fails, the third automatically starts in high speed and maintains normal Reactor Building ventilation.

The apparent cause of this event is the interface between the normal and Engineered Safeguards logic. As the two operating fans shift to slow speed, in response to a single channel ES actuation, the idle fan senses the loss of a high speed fan and starts in fast speed. The intent of the FSAR is that the actuation of a single ES channel will result in two fans in slow speed.

Analysis of Event:

Two Reactor Building cooling fans normally operate in high speed to maintain the Reactor Building environment. In the unlikely event of an ES actuation, all three fans are utilized in slow speed to remove the heat in the Containment atmosphere. The speed of the fans is reduced to offset increased power requirements due to the increased density of the building atmosphere. If an ES actuation had been required, and both ES Channels 5 and 6 had functioned properly, all three RBCU would have run in slow speed, as designed. If only one of these two ES channels had actuated, two fans would have operated in slow speed and one in high speed. It is possible that the high speed fan would have tripped; however, the two operating RBCU are sufficient for Reactor Building cooling under accident conditions and the Reactor Building Spray System provides full capacity, redundant cooling of the Reactor Building. Thus, it is concluded that the health and safety of the public was not affected.

Corrective Action:

A design review of the RBCU fan logic is in progress and appropriate modifications will be installed to ensure the proper operation of the Reactor Building Cooling Units. In the interim, the fan which is not normally operating will have its controller in the off position. This will allow the fan to respond properly to an ES signal; however, it will not automatically start should an operating fan fail in normal operation.

REGISTRATION
OPERATIONS
JAN 21 10 03 AM '75

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