

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 709

FROM: Duke Power Company Charlotte, North Carolina 28201. A. C. Thies		DATE OF DOC: 01-26-73	DATE REC'D 01-30-73	LTR X	MEMO	RPT	OTHER
TO: Angelo Giambusso		ORIG 1	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS: <u>U</u> PROP INFO		INPUT	NO CYS REC'D 1	DOCKET NO: 50-269			

DESCRIPTION:  
Ltr re our 12-15-72 ltr, their 12-29-72 ltr & 01-18-73 meeting...furnishing additional info regarding postulated failure of lines containing high energy fluids outside the reactor building for Oconee, Unit 1....

ENCLOSURES:

**ACKNOWLEDGED**  
**DO NOT REMOVE**

PLANT NAMES: Oconee, Unit No. 1

FOR ACTION/INFORMATION				01-31-73	rht
BUTLER(L) W/ Copies	✓ SCHWENCER(L) W/ 4 Copies	SCHEMEL(L) W/ Copies	KNIGHTON(E) W/ Copies		
CLARK(L) W/ Copies	STOLZ(L) W/ Copies	ZIEMANN(L) W/ Copies	YOUNGBLOOD(E) W/ Copies		
GOLLER(L) W/ Copies	VASSALLO(L) W/ Copies	CHITWOOD(FM) W/ Copies	REGAN(E) W/ Copies		
KNIEL(L) W/ Copies	H. DENTON W/ Copies	DICKER(E) W/ Copies			

INTERNAL DISTRIBUTION

✓ REG FILE	TECH REVIEW	VOLLMER	HARLESS	WADE	E
✓ AEC PDR	HENDRIE	DENTON		SHAFFER	F & M
OGC, ROOM P-506A	SCHROEDER	GRIMES	F & M	BROWN	E
MUNIZING/STAFF	MACCARY	GAMMILL	SMILEY	G. WILLIAMS	E
CASE	LANGE(2)	KASTNER	NUSSBAUMER	E. GOULBOURNE	L
GIAMBUSO	PAWLICKI	BALLARD		A/T IND	
BOYD-L(BWR)	SHAO	SPANGLER	LIC ASST.	BRATTMAN	
✓ DEYOUNG-L(PWR)	KNUTH		SERVICE L	SALTZMAN	
SKOVHOLT-L	STELLO	ENVIRO	MASON L		
P. COLLINS	MOORE	MULLER	WILSON L	PLANS	✓ VARGA
REG OPR	HOUSTON	DICKER	MAIGRET L	MCDONALD	✓ KLECKER
FILE & REGION (2)	TEDESCO	KNIGHTON	SMITH L	DUBE	✓ CARTER
MORRIS	✓ LONG	YOUNGBLOOD	GEARIN L		✓ EISENHUT
STELLE	✓ LAINAS	PROJ LEADER	DIGGS L	INFO	RUBENSTEIN
	BENAROYA		TEETS L	C. MILES	MACKAY
		REGAN	LEE L		

EXTERNAL DISTRIBUTION

✓ 1-LOCAL PDR	Walhalla, South Carolina		
1-DTIE(ABERNATHY)		(1)(5)(9)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
1-NSIC(BUCHANAN)		1-R. CARROLL-OC, GT-B227	1-GERALD LELLOUCHE
1-ASLB-YORE/SAYRE		1-R. CATLIN, E-256-GT	BROOKHAVEN NAT. LAB
WOODWARD/H. ST.		1-CONSULANT'S	1-AGMED(WALTER KOESTER,
16-CYS ACRS HOLDING		NEWMARK/BLUME/AGABIAN	Rm C-427, GT)
			1-RD...MULLER...F-309GT

# DUKE POWER COMPANY

POWER BUILDING

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

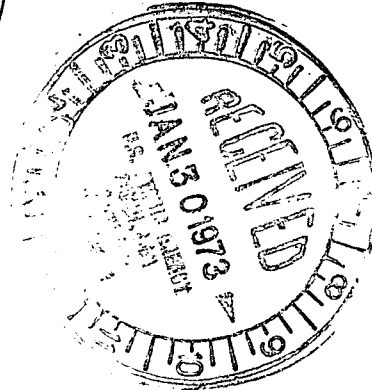
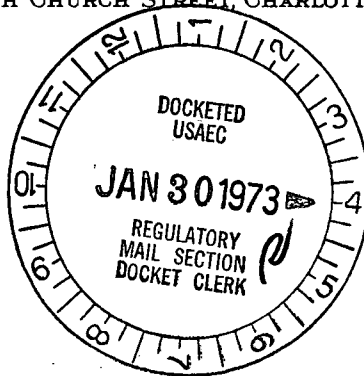
Regulatory

File Cy

A. C. THIES  
SENIOR VICE PRESIDENT  
PRODUCTION AND TRANSMISSION

P. O. Box 2178

January 26, 1973



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

Re: Oconee Nuclear Station  
Unit 1  
Docket No. 50-269

Dear Mr. Giambusso:

Please refer to your letter of December 15, 1972 requesting additional analysis and other relevant information needed to determine the consequence of postulated failure of lines containing high energy fluids outside the reactor building for Oconee Nuclear Station. In response to this letter, we transmitted to you on December 29, 1972 a status report on the engineering review which is in progress. On January 18, 1973, we met with members of your staff to present the results of our analysis to date. This analysis showed that Oconee Unit 1 could be shut down safely in the event that the hypothetical accident identified by your criteria did occur. However, we are studying the possibility that modifications may be needed to meet the simultaneous imposition of the single failure criteria.

While we feel that the systems as installed are adequate for safe shutdown, we agree to the following in order to permit the early licensing of Oconee Unit 1:

- (1) By April 25, 1973, we will complete our analysis of the effects of failure of lines containing high energy fluids exterior to the reactor building for Oconee Unit 1 including the rupture of the main steam lines or feedwater lines. As a result of our analysis, we will propose appropriate modifications to meet the new interpretation of Criterion IV of the Commission's general design criteria listed in Appendix A of 10 CFR 50. Upon your timely approval of these modifications, we will proceed to implement them at the earliest possible date consistent with delivery of materials and with system reliability requirements. We would expect to complete these modifications no later than the completion of the first refueling.

Mr. Angelo Giambusso

Page 2

January 26, 1973

- (2) During the period of completing the requirements of Item 1 above, we agree to conduct a surveillance program which will include a visual inspection of the areas of greatest stress in the high energy lines, the failure of which would not permit us to meet the single failure criteria. This visual examination will be conducted once per shift. We will also make visual examinations of the metal surfaces in these areas at intervals of approximately two months during selected off-peak load periods. It is not intended that the unit be shut down for these inspections. This inspection program will be implemented immediately following the first criticality and be terminated upon completion of the modifications outlined in Item 1 above. The details of this program will be submitted within 10 days following initial criticality.
- (3) We will continue to look for interim measures which could reduce the consequence of a high energy line rupture and develop appropriate specific procedures for emergency action in the event of the postulated failures. Any interim measures and procedures that are found reasonable will be promptly implemented and continued until the modifications resulting from Item 1 are installed. A report covering these interim measures will be submitted to you by February 5, 1973.

We assure you of our continuing dedication to a satisfactory resolution of this matter, and understand that the above plan will clear Oconee Unit 1 for issuance of the operating license.

Very truly yours,



A. C. Thies

ACT:vr