

CONTROL NO: 7829

FILE:

**Do Not Remove**

**AB**

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

## EXTERNAL DISTRIBUTION

- ✓ 1 - LOCAL PDR Hartville, S. C.  
✓ 1 - DTIE(ABERNATHY) (1)(2)(10)-NATIONAL LAB'S  
✓ 1 - NSIC(BUCHANAN)  
1 - ASLB(YORE/SAYRE/  
WOODARD/"H" ST.  
✓ 16 - CYS ACRS ~~holding~~ SENT TO LIC ASST.  
S. TEETS ON 10-26-73
- 1-W. PENNINGTON, Rm E-201 GT  
1-CONSULTANT'S  
NEWMARK/BLUME/AGBABIAN  
1-GERALD ULRIKSON...ORNL
- 1-PDR-SAN/LA/NY  
1-GERALD LELLOUCHE  
BROOKHAVEN NAT. LAB  
1-AGMED(Ruth Gussman)  
RM-B-127, GT.  
1-RD..MULLER..F-309 GT



Carolina Power & Light Company  
October 25, 1973

50-261

Rec'd 10/25/73  
Bethesda 1:40 pm

File: NC-3513 & NC-3514

Serial: NC-73-317

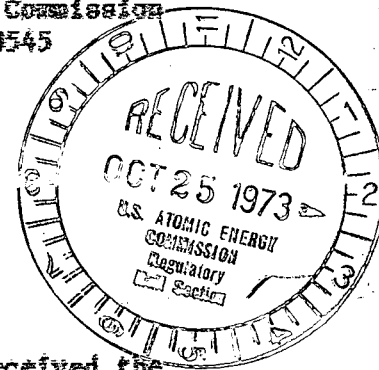
Teletype to:

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

Mr. John F. O'Leary  
Directorate of Licensing  
Office of Regulation  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

Dear Sirs:

H. B. ROBINSON UNIT NO. 2 -  
LICENSE DPR-23  
VIOLATION OF TECHNICAL SPECIFICATIONS  
LIMITING VALUES OF  $F(z)$   $S(z)$



On October 19, 1973, Carolina Power & Light Company received the approved changes to the Technical Specifications for H. B. Robinson cycle 2 operation with fuel densification from the Atomic Energy Commission. In Specification 3.10.2.1.1, limiting values for power distributions during operation above 94.8% power were specified, incorporating values of movable detector thimble factors  $\bar{F}_q$ , derived from the analysis of core power maps. A hand analysis of the maps was performed to determine thimble factors for subsequent operation of the plant under the new Technical Specifications, and were put into use on October 21, 1973, when the plant was returned to service after a short shutdown period. On October 24, 1973, a computerized analysis of the core power maps, incorporating the spike penalty factors to better determine the thimble  $F_q^N$ , revealed that the numbers determined on October 19 were in error, in that the peak value of the penalized  $F_q^N$  had not been correctly chosen from the maps. The limiting values for  $F(z)$   $S(z)$  were approximately 12% lower, resulting in several violations of Technical Specification 3.10.2.1.1 during the period October 21 - October 24, 1973. Corrective action was taken to place the reactor in a condition which would avoid further violation of Technical Specifications. A preliminary analysis of the surveillance data and a core power map taken October 23 shows that the limiting value of  $F_q^N$  for cycle 2, 2.34, was not violated during the period

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in question, but the surveillance limit was violated since it includes approximately 5% additional margin.

Yours very truly,

*J. B. Furr*  
for R. J. Furr  
Manager

H. B. Robinson  
S. E. G. Plant

DBU:nvp

cc: Messrs. C. D. Barham  
H. B. Bassac  
T. E. Bowman  
R. J. Furr  
D. V. Manser  
D. E. Waters

Regulatory

File Cy.

