

September 11, 1990

Docket No. 50-395

Mr. O. S. Bradham
Vice President, Nuclear Operations
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
P. O. Box 88
Jenkinsville, South Carolina 29065

Dear Mr. Bradham:

SUBJECT: CORRECTED PAGE 3/4.2-5 TO AMENDMENT NO. 88 TO FACILITY OPERATING
LICENSE NO. NPF-12 - VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1
REGARDING CYCLE SPECIFIC PARAMETERS (TAC NO. 75360)

Enclosed is a corrected page 3/4.2-5 to those which were issued as
part of Amendment No. 88 to Facility Operating License No. NPF-12 for the
Virgil C. Summer Nuclear Station, Unit No. 1. This correction addresses
a typographical error in the original amendment issuance.

Sincerely,
Original Signed By:

John J. Hayes, Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated
cc: w/enclosure
See next page

DISTRIBUTION

Docket File

NRC PDR

Local PDR

S. Varga 14-E-4

G. Lainas 14-H-3

E. Adensam 14-B-20

L. Reyes RII

P. Anderson 14-B-20

J. Hayes 14-B-20

OGC (For inform. Only) 15-B-18

E. Jordan MNBB-3302

ACRS (10) P-315

Summer File

00191

c/p

OFC	: LA: PDII-1	: PM: PDII-1	: D: PDII-1	:	:	:
NAME	: PAnderson	: JHayes: sw	: EAdensam	:	:	:
DATE	: 9/10/90	: 9/10/90	: 9/11/90	:	:	:

OFFICIAL RECORD COPY

9009140095 900911
PDR ADDOCK 05000395
P PDC

JFol

POWER DISTRIBUTION LIMITS

SURVEILLANCE REQUIREMENTS

4.2.2.1 The provisions of Specification 4.0.4 are not applicable.

4.2.2.2 For RAOC operation, $F_Q(z)$ shall be evaluated to determine if $F_Q(z)$ is within its limit by:

- a. Using the movable incore detectors to obtain a power distribution map at any THERMAL POWER greater than 5% of RATED THERMAL POWER.
- b. Increasing the measured $F_Q(z)$ component of the power distribution map by 3% to account for manufacturing tolerances and further increasing the value by 5% to account for measurement uncertainties. Verify the requirements of Specification 3.2.2 are satisfied.
- c. Satisfying the following relationship:

$$F_Q^M(z) \leq \frac{F_Q^{RTP} \times K(z)}{P \times W(z)} \text{ for } P > 0.5$$

$$F_Q^M(z) \leq \frac{F_Q^{RTP} \times K(z)}{W(z) \times 0.5} \text{ for } P \leq 0.5$$

where $F_Q^M(z)$ is the measured $F_Q(z)$ increased by the allowances for manufacturing tolerances and measurement uncertainty, F_Q^{RTP} is the F_Q limit, $K(z)$ is the normalized $F_Q(z)$ as a function of core height, P is the relative THERMAL POWER, and $W(z)$ is the cycle dependent function that accounts for power distribution transients encountered during normal operation. F_Q^{RTP} , $K(z)$ and $W(z)$ are specified in the CORE OPERATING LIMITS REPORT as per Specification 6.9.1.11.

- d. Measuring $F_Q^M(z)$ according to the following schedule:
 1. Upon achieving equilibrium conditions after exceeding by 10% or more of RATED THERMAL POWER, the THERMAL POWER at which $F_Q(z)$ was last determined, * or
 2. At least once per 31 Effective Full Power Days, whichever occurs first.

*During power escalation at the beginning of each cycle, power level may be increased until a power level for extended operation has been achieved and power distribution map obtained.

Mr. O. S. Bradham
South Carolina Electric & Gas Company

Virgil C. Summer Nuclear Station

cc:

Mr. R. V. Tanner
Executive Vice President
S.C. Public Service Authority
P. O. Box 398)
Moncks Corner, South Carolina 29461-0398

J. B. Knotts, Jr., Esq.
Bishop, Cook, Purcell
and Reynolds
1400 L Street, N.W.
Washington, D. C. 20005-3502

Resident Inspector/Summer NPS
c/o U.S. Nuclear Regulatory Commission
Route 1, Box 64
Jenkinsville, South Carolina 29065

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission,
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323

Chairman, Fairfield County Council
P. O. Box 293
Winnsboro, South Carolina 29180

Mr. Heyward G. Shealy, Chief
Bureau of Radiological Health
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

South Carolina Electric & Gas Company
Mr. A. R. Koon, Jr., Manager
Nuclear Licensing
Virgil C. Summer Nuclear Station
P. O. Box 88
Jenkinsville, South Carolina 29065