



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

April 16, 1984

Docket No. 50-395

Mr. O. W. Dixon, Jr.
Vice President Nuclear Operations
South Carolina Electric & Gas Company
P.O. Box 764
Columbia, South Carolina 29218

Dear Mr. Dixon:

Subject: Issuance of Amendment No. 22 to Facility Operating
License NPF-12 Virgil C. Summer Nuclear Station,
Unit No. 1

The Nuclear Regulatory Commission has issued Amendment No. 22 to Facility Operating License NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1 located in Fairfield County, South Carolina. This amendment is in response to your letter dated July 22, 1983.

The amendment changes the Technical Specifications regarding containment structural integrity to correct the values listed for the hoop tendons and substitute some tendons for those already listed for surveillance.

A copy of the related safety evaluation supporting Amendment No. 22 to Facility Operating License NPF-12 is enclosed.

Sincerely,

Handwritten signature of Elinor G. Adensam in cursive.

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosures:

1. Amendment No. 22
2. Safety Evaluation

cc w/enclosure:
See next page

DESIGNATED ORIGINAL

Certified By

Handwritten signature of John M. Ch... in cursive.

8404250299 840416
PDR ADOCK 05000395
P PDR

SUMMER

Mr. O. W. Dixon, Jr.
Vice President, Nuclear Operations
South Carolina Electric & Gas Company
P.O. Box 764 (Mail Code F-04)
Columbia, South Carolina 29218

cc: Mr. Henry Cyrus
Senior Vice President
South Carolina Public Service Authority
223 North Live Oak Drive
Moncks Corner, South Carolina 29461

J. B. Knotts, Jr., Esq.
Bishop, Liberman, Cook,
Purcell & Reynolds
1200 17th Street, N.W.
Washington, D. C. 20036

Mr. Mark B. Whitaker, Jr.
Group Manager - Nuclear Engineering
& Licensing
South Carolina Electric & Gas Company
P.O. Box 764
Columbia, South Carolina 29218

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

James P. O'Reilly, Regional Administrator
U.S. Nuclear Regulatory Commission,
Region II
101 Marietta Street
Atlanta, Georgia 30303

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

State Clearinghouse
Office of the Governor
Division of Administration
1205 Pendleton Street, 4th Floor
Columbia, South Carolina 29201

Attorney General
Box 11549
Columbia, South Carolina 29211

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

EIS Review Coordinator
U.S. Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30308

April 16, 1984

AMENDMENT NO. 22 TO FACILITY OPERATING LICENSE NO. NPF-12 - Virgil C. Summer Unit 1

DISTRIBUTION w/enclosures:

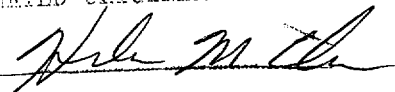
✓ Docket No. 50-395
LB #4 r/f
J. Hopkins
M. Duncan
OELD
E. Adensam
R. Diggs, ADM
T. Barnhart (4)
J. N. Grace, DPR:I&E
E. L. Jordan, DEQA:I&E
L. Harmon, I&E
D. Brinkman, SSPB

bcc w/enclosures:

NRC PDR
Local PDR
NSIC
PRC System
ACRS (16)

DESIGNATED ORIGINAL

Certified By

A handwritten signature in dark ink, appearing to be "John M. [unclear]", written over a horizontal line.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 22
License No. NPF-12

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility) Facility Operating License No. NPF-12 filed by the South Carolina Electric & Gas Company acting for itself and South Carolina Public Service Authority (the licensees), dated July 22, 1983, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this license amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment and paragraph 2.C(2) of Facility Operating License No. NPF-12 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 22, are hereby incorporated into this license. South Carolina Electric & Gas Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

8404250300 840416
PDR ADOCK 05000395
P PDR

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Elinor G. Adensam

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosure:
Technical Specification Changes

Date of Issuance: April 16, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 22

FACILITY OPERATING LICENSE NO. NPF-12

DOCKET NO. 50-395

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Amended
Page

3/4 6-10a
3/4 6-10b
3/4 6-10c

Table 4.6-1a. Base value of tendon force

| SURVEILLANCE TENDONS | | | | | |
|----------------------|-------------------|--------|-------------------|--------|-------------------|
| INSPECTION PERIOD | | | | | |
| 1 | | 2 | | 3 | |
| Tendon | Base value (kips) | Tendon | Base value (kips) | Tendon | Base value (kips) |
| D-104 | 1275 | D-125 | 1230 | D-108 | 1287 |
| D-129 | 1245 | D-213 | 1228 | D-121 | 1225 |
| D-219 | 1265 | D-228 | 1275 | D-213 | 1223 |
| D-328 | 1287 | D-324 | 1273 | D-316 | 1284 |
| V-23 | 1328 | V-23 | 1319 | V-23 | 1313 |
| V-46 | 1309 | V-30 | 1287 | V-37 | 1299 |
| V-67 | 1332 | V-53 | 1316 | V-60 | 1294 |
| V-92 | 1299 | V-76 | 1315 | V-83 | 1314 |
| V-115 | 1322 | V-99 | 1309 | V-106 | 1296 |
| 3AC | 1318 | 3AC | 1309 | 3AC | 1303 |
| 8BA | 1266 | 13BA | 1278 | 8CB | 1249 |
| 13CB | 1283 | 18CB | 1259 | 18BA | 1249 |
| 28CB | 1260 | 28BA | 1259 | 28AC | 1259 |
| 38AC | 1250 | 33CB | 1278 | 33BA | 1272 |
| 38BA | 1250 | 41AC | 1268 | 38CB | 1226 |

Table 4.6-1b. Base value of tendon force.

| ADJACENT TENDONS | | | | | |
|-------------------|-------------------|--------|-------------------|--------|-------------------|
| INSPECTION PERIOD | | | | | |
| 1 | | 2 | | 3 | |
| Tendon | Base value (kips) | Tendon | Base value (kips) | Tendon | Base value (kips) |
| D-103 | 1245 | D-124 | 1284 | D-107 | 1241 |
| D-105 | 1250 | D-126 | 1262 | D-109 | 1222 |
| D-128 | 1296 | D-212 | 1300 | D-120 | 1284 |
| D-130 | 1267 | D-214 | 1252 | D-122 | 1264 |
| D-218 | 1296 | D-227 | 1270 | D-212 | 1294 |
| D-220 | 1299 | D-229 | 1235 | D-214 | 1248 |
| D-327 | 1244 | D-323 | 1256 | D-315 | 1266 |
| D-329 | 1237 | D-325 | 1227 | D-317 | 1233 |
| V-22 | 1306 | V-22 | 1300 | V-22 | 1295 |
| V-24 | 1320 | V-24 | 1317 | V-24 | 1313 |
| V-45 | 1308 | V-29 | 1301 | V-36 | 1284 |
| V-47 | 1322 | V-31 | 1327 | V-38 | 1293 |
| V-66 | 1309 | V-52 | 1316 | V-59 | 1308 |
| V-68 | 1309 | V-54 | 1298 | V-61 | 1309 |
| V-91 | 1309 | V-75 | 1304 | V-82 | 1297 |
| V-93 | 1327 | V-77 | 1313 | V-84 | 1311 |
| V-114 | 1313 | V-98 | 1280 | V-105 | 1297 |
| V-1 | 1320 | V-100 | 1300 | V-107 | 1307 |
| 2AC | 1272 | 2AC | 1265 | 2AC | 1260 |
| 4AC | 1255 | 4AC | 1248 | 4AC | 1242 |
| 7BA | 1318 | 12BA | 1262 | 7CB | 1298 |
| 9BA | 1286 | 14BA | 1259 | 9CB | 1275 |
| 12CB | 1279 | 17CB | 1268 | 17BA | 1256 |
| 14CB | 1266 | 19CB | 1282 | 19BA | 1284 |
| 27CB | 1273 | 27BA | 1285 | 27AC | 1291 |
| 29CB | 1276 | 29BA | 1268 | 29AC | 1250 |
| 37AC | 1278 | 32CB | 1256 | 32BA | 1253 |
| 39AC | 1290 | 34CB | 1229 | 34BA | 1249 |
| 37BA | 1289 | 40AC | 1272 | 37CB | 1272 |
| 39BA | 1266 | 42AC | 1251 | 39CB | 1286 |

Table 4.6-2. Normalizing factors (N.F.)

| INSPECTION PERIOD | | | | | |
|-------------------|----------------|--------|----------------|--------|----------------|
| 1 | | 2 | | 3 | |
| Tendon | N.F. (kips) | Tendon | N.F. (kips) | Tendon | N.F. (kips) |
| D-104 | -24 | D-125 | 36 | D-108 | -42 |
| D-129 | 33 | D-213 | 46 | D-121 | 40 |
| D-219 | 10 | D-228 | -28 | D-213 | 46 |
| D-328 | -21 | D-324 | -12 | D-316 | -31 |
| V-23 | -15 | V-23 | -15 | V-23 | -15 |
| V-46 | 11 | V-30 | 31 | V-37 | -5 |
| V-67 | -21 | V-53 | -24 | V-60 | 11 |
| V-92 | 25 | V-76 | -11 | V-83 | -15 |
| V-115 | -10 | V-99 | 5 | V-106 | 7 |
| 3AC | -56 | 3AC | -56 | 3AC | -56 |
| 8BA | 18 | 13BA | -26 | 8CB | 26 |
| 13CB | -23 | 18CB | 29 | 18BA | 34 |
| 28CB | 26 | 28BA | 17 | 28AC | 10 |
| 38AC | 40 | 33CB | -17 | 33BA | -16 |
| 38BA | 40 | 41AC | 0 | 38CB | 54 |



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 22 TO FACILITY OPERATING LICENSE NPF-12

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

I. INTRODUCTION

By letter dated July 22, 1983, South Carolina Electric and Gas Company (SCE&G) proposed changes to Virgil C. Summer Technical Specification Tables 4.6-1a, 4.6-1b, and 4.6-2 regarding containment structural integrity. The changes would correct the values listed for the hoop tendons and substitute some tendons for those already listed for surveillance. Additional information related to this request was provided by SCE&G by letter dated December 19, 1983, however, the request itself remained unchanged.

II. EVALUATION

There was an error made in calculations for the predicted hoop tendon base values. The error involved incorrect recording of the ultimate specific creep constant. This caused the base value for each hoop tendon to be from 0 to 7 kips (<1%) too high. Of the tendon surveillance substitutions requested, tendons D-219 (listed twice) and 36AC would be changed in order to make the surveillance more random, because they were checked during the first surveillance conducted prior to startup. Tendon D-312 would be changed because of a physical interference problem which makes inspection impossible.

The staff has reviewed the requested changes and finds that the changes will not affect the existing design requirements for containment structural integrity committed to by SCE&G in their Final Safety Analysis Report. Therefore, the staff concludes that the requested changes to Technical Specification Tables 4.6-1a, 4.6-1b, and 4.6-2 are acceptable.

III. ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

8404250301 840416
PDR ADOCK 05000395
P PDR

IV. CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (49 FR 50638) on November 2, 1983, and consulted with the state of South Carolina. No public comments were received, and the state of South Carolina did not have any comments.

We have concluded, based on the considerations discussed above, that:
(1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and
(2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: Jon B. Hopkins, Licensing Branch No. 4, DL
Norman D. Romney, Structural and Geotechnical
Engineering Branch, DE

Dated: April 16, 1984