



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. 30  
License No. NPF-12

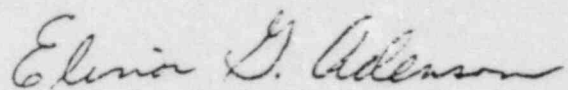
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility) Facility Operating License No. NPF-12 filed by the South Carolina Electric & Gas Company acting for itself and South Carolina Public Service Authority (the licensees), dated November 16, 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. 30 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION



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

Enclosure:  
Technical Specification Changes

Date of Issuance: October 24, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 30

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 areas of change. The corresponding overleaf pages are also provided to maintain document completeness.

Amended  
Page

3/4 8-21  
3/4 8-44  
3/4 8-56a

Overleaf  
Page

3/4 8-22  
3/4 8-43

TABLE 3.8-J (continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

| EQUIP NO. - SYS/DESCRIPTION                                     | DEVICE  | LOCATION   | TEST SETPOINT  | RESPONSE TIME                        |
|---|---------|------------|--|--------------------------------------|
| 6) CONTINUED:   |         |            |  |                                      |
| 200 AMP FUSE  | BACKUP  | XPN5471    | ≥.375 Milliohms  | N/A                                  |
| 7) XFN00067C-AH<br>CRDM CLNG. SYSTEM FAN C                      | PRIMARY | XSWIC3/2D  | LONG TIME 540 Amps<br>SHORT TIME 2700 Amps<br>INSTANT 2025 Amps  | <30 Sec.<br><0.17 Sec.<br><0.09 Sec. |
| XSWIC3 MAIN INCOMING  | BACKUP  | XSWIC3/3B  | LONG TIME 4800 Amps<br>SHORT TIME 7200 Amps<br>INSTANT N/A       | <12 Sec.<br><0.50 Sec.<br>N/A        |
| BUS TIE TO XSWIA3   | BACKUP  | XSWIA3/4C  | LONG TIME 3000 Amps<br>SHORT TIME 4500 Amps<br>INSTANT N/A       | <12 Sec.<br><0.32 Sec.<br>N/A        |
| 8) MFN0097B-AH<br>R.B. CLNG. UNIT FAN<br>XFN64B EMERGENCY MOTOR | PRIMARY | XSWIDB1/6D | LONG TIME 525 Amps<br>SHORT TIME 1500 Amps<br>INSTANT 2250 Amps  | <30 Sec.<br><0.17 Sec.<br><0.09 Sec. |
| XSWIDB1 MAIN INCOMING   | BACKUP  | XSWIDB1/4B | LONG TIME 6300 Amps<br>SHORT TIME 9000 Amps<br>INSTANT N/A       | <12 Sec.<br><0.50 Sec.<br>N/A        |
| 9) MFN0096B-AH<br>R.B. CLNG. UNIT FAN<br>XFN64B NORMAL MOTOR    | PRIMARY | XSWIDB1/7B | LONG TIME 1260 Amps<br>SHORT TIME 5400 Amps<br>INSTANT 5400 Amps | <30 Sec.<br><0.17 Sec.<br><0.09 Sec. |

SUMMER - UNIT 1

3/4 8-21

Amendment No. 30

TABLE 3.8-1 (continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

| <u>EQUIP NO. -SYS/DESCRIPTION</u>                                | <u>DEVICE</u> | <u>LOCATION</u> | <u>TEST SETPOINT</u>   | <u>RESPONSE TIME</u>                    |
|--|---------------|-----------------|--|---|
| 9) CONTINUED:  |               |                 |  |   |
| XSWIDB1 MAIN INCOMING  | BACKUP        | XSWIDB1/4B      | LONG TIME 6300 Amps<br>SHORT TIME 9000 Amps<br>INSTANT N/A       | < 12 Sec.<br>< 0.50 Sec.<br>N/A         |
| 10) MFN0096C-AH<br>R.B. CLNG. UNIT FAN<br>XFN65A NORMAL MOTOR    | PRIMARY       | XSWIDA1/5B      | LONG TIME 1260 Amps<br>SHORT TIME 5400 Amps<br>INSTANT 5400 Amps | < 30 Sec.<br>< 0.17 Sec.<br>< 0.09 Sec. |
| XSWIDA1 MAIN INCOMING  | BACKUP        | XSWIDA1/4B      | LONG TIME 6300 Amps<br>SHORT TIME 9000 Amps<br>INSTANT N/A       | < 12 Sec.<br>< 0.50 Sec.<br>N/A         |
| 11) MFN0097C-AH<br>R.B. CLNG. UNIT FAN<br>XFN65A EMERGENCY MOTOR | PRIMARY       | XSWIDA1/6C      | LONG TIME 525 Amps<br>SHORT TIME 1500 Amps<br>INSTANT 2250 Amps  | < 30 Sec.<br>< 0.17 Sec.<br>< 0.09 Sec. |
| XSWIDA1 MAIN INCOMING  | BACKUP        | XSWIDA1/4B      | LONG TIME 6300 Amps<br>SHORT TIME 9000 Amps<br>INSTANT N/A       | < 12 Sec.<br>< 0.50 Sec.<br>N/A         |
| 12) MFN0096A-AH<br>R.B. CLNG. UNIT FAN<br>XFN64A NORMAL MOTOR    | PRIMARY       | XSWIDA1/6B      | LONG TIME 1260 Amps<br>SHORT TIME 5400 Amps<br>INSTANT 5400 Amps | < 30 Sec.<br>< 0.17 Sec.<br>< 0.09 Sec. |
| XSWIDA1 MAIN INCOMING  | BACKUP        | XSWIDA1/4B      | LONG TIME 6300 Amps<br>SHORT TIME 9000 Amps<br>INSTANT N/A       | < 12 Sec.<br>< 0.17 Sec.<br>N/A         |
| 13) MFN0097A-AH<br>R.B. CLNG. UNIT FAN<br>XFN64A EMERGENCY MOTOR | PRIMARY       | XSWIDA1/5C      | LONG TIME 525 Amps<br>SHORT TIME 1500 Amps<br>INSTANT 2250 Amps  | < 30 Sec.<br>< 0.17 Sec.<br>< 0.09 Sec. |

TABLE 3.8-1 (continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

| <u>EQUIP NO. -SYS/DESCRIPTION</u> | <u>DEVICE</u> | <u>LOCATION</u> | <u>TEST SETPOINT</u> | <u>RESPONSE TIME</u> |
|-----------------------------------|---------------|-----------------|----------------------|----------------------|
| CRDM PWR. CAB. 2 BD, CONTINUED:   |               |                 |                      |                      |
| XCA2B-CR A55-Fu2                  | PRIMARY       | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A57-Fu2                  | BACKUP        | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A61-Fu50                 | PRIMARY       | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A61-Fu46                 | BACKUP        | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| 64) MECHANISM 3 -                 |               |                 |                      |                      |
| XCA2B-CR A61-Fu43                 | PRIMARY       | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A60-Fu39                 | BACKUP        | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A56-Fu1                  | PRIMARY       | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A58-Fu1                  | BACKUP        | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A61-Fu51                 | PRIMARY       | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A61-Fu47                 | BACKUP        | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| 65) MECHANISM 4 -                 |               |                 |                      |                      |
| XCA2B-CR A61-Fu44                 | PRIMARY       | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A60-Fu40                 | BACKUP        | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A56-Fu2                  | PRIMARY       | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A58-Fu2                  | BACKUP        | XCA2B           | ≥ 1.4 Milliohms      | N/A                  |
| XCA2B-CR A61-Fu48                 | PRIMARY       | XCA2B           | ≥ 6 Milliohms        | N/A                  |
| XCA2B-CR A61-Fu48                 | BACKUP        | XCA2B           | ≥ 6 Milliohms        | N/A                  |

TABLE 3.8-1 (continued)

## CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

| <u>EQUIP NO. - SYS/DESCRIPTION</u>  | <u>DEVICE</u> | <u>LOCATION</u> | <u>TEST SETPOINT</u> | <u>RESPONSE TIME</u> |
|---|---------------|-----------------|----------------------|----------------------|
| 66) 125 VDC<br>DPN8007C-ED<br>Emergency LTG. PNL. 7                         | PRIMARY       | DPN1HX/14       | 120 Amps             | ≤100 Sec.            |
|   | BACKUP        | XPN5262 (FUSE)  | ≥1.4 Milliohms       | N/A                  |
| 67) 120 VAC MISC.<br>XBJ0002-IC/INCORE<br>THERMOCOUPLE REF. JUNCT.<br>BOX 2 | PRIMARY       | APN1FX1/25      | 45 Amps              | ≤100 Sec.            |
|   | BACKUP        | XPN5261 (FUSE)  | ≥4 Milliohms         | N/A                  |
| 68) XBJ0001-IC/INCORE<br>THERMOCOUPLE REF.<br>JUNCT. BOX 1                  | PRIMARY       | APN1FX1/24      | 45 Amps              | ≤100 Sec.            |
|   | BACKUP        | XPN5261 (FUSE)  | ≥4 Milliohms         | N/A                  |
| 69) XPN7060-CR/ROD<br>POSITION INDICATION<br>PNL. 1                         | PRIMARY       | APN1FC1/2       | 120 Amps             | ≤100 Sec.            |
|   | BACKUP        | XPN5272 (FUSE)  | ≥1.4 Milliohms       | N/A                  |
| 70) XPN7061-CR/ROD POSITION<br>INDICATION PNL. 2                            | PRIMARY       | APN1FC1/4       | 120 Amps             | ≤100 Sec.            |
|   | BACKUP        | XPN5272 (FUSE)  | ≥1.4 Milliohms       | N/A                  |
| 71) APN5915-EV/TRANSMITTER<br>PWR. SUPPLY CAB. NO. 3                        | PRIMARY       | APN5906/25      | 60 Amps              | ≤100 Sec.            |
|   | BACKUP        | APN5914 (FUSE)  | ≥4 Milliohms         | N/A                  |

SUMMER - UNIT 1

3/4 8-44

Amendment No. 30

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

| <u>EQUIP NO. - SYS/DESCRIPTION</u>  | <u>DEVICE</u> | <u>LOCATION</u>     | <u>TEST SETPOINT</u> | <u>RESPONSE TIME</u> |
|---|---------------|---------------------|----------------------|----------------------|
| 167) XPN0105-AH-EDDY<br>CURRENT BRAKE ON<br>R.B. CLNG. UNIT NORMAL<br>MOTOR MFN0096A/FAN<br>XFN64A  | PRIMARY       | XMC1B3X/3ABL        | 45 Amps              | ≤100 sec.            |
|   | BACKUP        | XPN5494<br>FU1, FU2 | ≥.532 Milliohms      | N/A                  |
| 168) XPN0106-AH-EDDY<br>CURRENT BRAKE ON<br>R.B. CLNG. UNIT NORMAL<br>MOTOR MFN0096B/FAN<br>XFN64B  | PRIMARY       | XMC1B3X/3ABR        | 45 Amps              | ≤100 sec.            |
|   | BACKUP        | XPN5495<br>FU1, FU2 | ≥.532 Milliohms      | N/A                  |
| 169) XPN0107-AH-EDDY<br>CURRENT BRAKE ON<br>R.B. CLNG. UNIT NORMAL<br>MOTOR MFN0096C/FAN<br>X. N65A | PRIMARY       | XMC1B3X/3ABL        | 45 Amps              | ≤100 sec.            |
|   | BACKUP        | XPN5494<br>FU3, FU4 | ≥.532 Milliohms      | N/A                  |
| 170) XPN0108-EDDY<br>CURRENT BRAKE ON<br>R.B. CLNG. UNIT<br>NORMAL MOTOR<br>MFN0096D/FAN XFN65B     | PRIMARY       | XMC1B3X/3ABR        | 45 Amps              | ≤100 sec.            |
|   | BACKUP        | XPN5495<br>FU3, FU4 | ≥.532 Milliohms      | N/A                  |

SUMMER - UNIT 1

3/4 8-58a

Amendment No. 30