

USNRC REGION II
SOUTH CAROLINA ELECTRIC & GAS COMPANY
POST OFFICE BOX 764
COLUMBIA, SOUTH CAROLINA 29218

T.C. NICHOLS, JR.
VICE PRESIDENT AND GROUP EXECUTIVE
NUCLEAR OPERATIONS

82 MAY 5 AT 56
April 28, 1982

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II, Suite 3100
101 Marietta Street, N.W.
Atlanta, GA 30303

Subject: Virgil C. Summer Nuclear Station
Docket No. 50/395
Reportable Substantial Safety Hazard
Violation of Separation Criteria
NE File: 3.1051

Dear Mr. O'Reilly:

On April 23, 1982, a substantial safety hazard as defined by 10CFR21 was reported to Mr. John Rogge at the NRC Region II office. The item involves the architect-engineer's inadequate specification of separation criteria for non-safety related space heater circuits serving safety related motors and safety related switchgear. Details are given on the attachment. This item is being reported under our 10CFR 50.55(e) procedure.

This letter serves as a final report. If you have any questions, please let us know.

Very truly yours,

T. C. Nichols, Jr.
T. C. Nichols, Jr.

DH:TCN:tdh

cc: V. C. Summer
T. C. Nichols, Jr.
G. H. Fischer
H. N. Cyrus
H. T. Babb
D. A. Nauman
M. B. Whitaker, Jr.
W. A. Williams, Jr.
O. S. Bradham
R. B. Clary
M. N. Browne
A. R. Koon
H. Radin
O. W. Dixon, Jr.
Site Q. A.

C. L. Ligon (NSRC)
G. J. Braddick
J. L. Skolds
J. B. Knotts, Jr.
B. A. Bursey
J. C. Ruoff
I&E (Washington)
Document Management Branch
*(55e, 21, LER only)
NPCF
File

8205210314 820428
PDR ADOCK 05000395
S PDR

OFFICIAL COPY

IE 27
5/11

10CFR21 - SUBSTANTIAL SAFETY HAZARD

1. Name and Address of Reporting Individual

Danny Hicks
South Carolina Electric and Gas Company
P. O. Box 764
Columbia, SC 29218

2. Identification of Basic Component

Non-safety related space heater circuits serving safety related motors and switchgear.

3. Identification of Firm Supplying Component

Non-applicable

4. Nature of Defect, Substantial Safety Hazard Created, and Evaluation

During recent field inspections, it was discovered that non-safety related space heater circuits serving various safety related switchgear and motors were in violation of the plant's designed separation criteria between non-safety related and safety related circuits. These inspections prompted the architect-engineer to review the non-safety related space heater circuits for separation violations. This review along with subsequent inspections uncovered various separation violations involving the space heater circuits. Since the space heaters are being powered from non-safety related sources protected only by molded case breakers, a short circuit could result in damaging safety related equipment and components required to mitigate accidents or essential to bring the reactor to a safe shutdown.

5. Date Information of Defect Was Obtained - January 26, 1982

6. Number and Location of Defect

Switchgear - 10 space heater circuits
Motors - 11 space heater circuits

7. Corrective Action

The architect-engineer has revised the drawings to add Class 1E overcurrent fuses to the space heater circuits found in violation of the plant's design electrical circuit physical separation criteria. Field personnel are adding the Class 1E overcurrent fuses to these space heater circuits per the revised drawings.

8. Advice to Purchase or Licensees

None