

SOUTH CAROLINA ELECTRIC & GAS COMPANY

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

December 3, 1981

USNRC REGION II
ATLANTA, GEORGIA
DEC 7 4 5: 30

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
Reportability Aspects of the
NUREG 0588 Review
Nuclear Engineering File: 3.1051

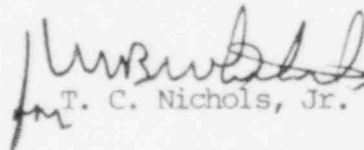
Dear Mr. O'Reilly:

On November 3, 1981, a substantial safety hazard as defined by 10CFR21 was reported to Mr. Virgil Brownlee at the NRC Region II office. The item involves the architect-engineer's inadequate specification for the qualification of Kerite splices used on safety related circuits in harsh environment areas outside containment. Details are given on the attachment. This item is an outgrowth of the NUREG 0588 Review, and is being reported under our 10CFR 50.55 (e) procedure.

As previously arranged with Mr. Virgil Brownlee of your staff, this report establishes the framework for reporting any additional items determined to be reportable per 10CFR21 or 10CFR 50.55 (e) during the ongoing NUREG 0588 review. Subsequent periodic written reports will be provided at approximately 60 day intervals with the required information, then available, for any additional items evaluated as reportable or potentially reportable during the interim period. Additionally a final report will be submitted summarizing and completing the reporting of these additional items following the completion of the NUREG 0588 Review.

If you have any questions, please contact us.

Very truly yours,


T. C. Nichols, Jr.



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Mr. James P. O'Reilly
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DH:TCN:tdh

Attachments

cc: J. P. O'Reilly
V. C. Summer
T. C. Nichols, Jr.
G. H. Fischer
H. N. Cyrus
H. T. Babb
D. A. Nauman
M. B. Whitaker, Jr.
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File

10CFR - 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

Electrical Cable Splices Outside Reactor Building

3. Identification of Firm Supplying Component

Kerite

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

During the NUREG 0588 review, the architect-engineer discovered that the original specification for the qualification of Kerite splices used on safety-related control and power cables in harsh environmental areas outside containment was not adequate which resulted in the use of unqualified splicing material. This might have resulted in the failure of the circuits if exposed to harsh environment conditions outside containment.

5. Date Information of Defect Was Obtained - October 26, 1981

6. Number and Location of Defect

Control Cable - 210 safety related circuits (536 splices)
Power Cable - 42 safety related circuits (135 splices)

7. Corrective Action

Construction's cable installation procedures have been changed to specify the use of qualified splicing materials and identifies the areas with harsh environments outside of containment. Safety related circuits installed in areas with harsh environments using the uncorrected procedure have been identified. Replacement of inadequate circuit splices will be completed prior to fuel loading.

The programatic concerns related to improper specification of these splices will be addressed from the basis of QA audit of the architect-engineer.

8. Advice to Purchasers or Licensees

None