

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE BOX 764

COLUMBIA, SOUTH CAROLINA 29218

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

November 21, 1980

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

Subject: Virgil C. Summer Nuclear Station
Reportable Significant Deficiency
10CFR50.55(e)
Docket No. 50/395

Dear Mr. O'Reilly:

On 11/21/80, a significant deficiency as defined by 10CFR50.55(e) was reported to Mr. John K. Rausch at the NRC Region II office. The item involved the failure to insulate base instrument cable drain wire splices in penetrations as required by the design guidelines. Details are given on the attachment.

The item is being reported under our 10CFR50.55(e) procedure. This is considered a final report on the matter.

Very truly yours,

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

JAW:TCN:rh

cc: V. C. Summer
G. H. Fischer
T. C. Nichols, Jr.
E. H. Crews, Jr.
O. S. Bradham
D. A. Nauman
O. W. Dixon, Jr.
R. B. Clary
W. A. Williams, Jr.
B. A. Bursey
J. L. Skolds
J. B. Knotts, Jr.
H. E. Yocom
ISE (Washington)
Document Management Branch ✓
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10CFR50.55(e) - SIGNIFICANT DEFICIENCY

1. Identification of Nonconformance

Splices were made to base drain wires in instrumentation cables at the penetrations without insulating the drain wires. This was done based on the penetration instruction manual. The Construction Guidelines for Cable Installation specify that the drains be insulated. This item was identified by nonconformance notice 1227E dated 7/17/80.

2. Number and Location of Nonconformance

Cables in 13 penetrations were involved. Seven of the penetrations were safety related.

3. Significant Deficiency Created and Evaluation

The uninsulated drain wires could have shorted to each other, possibly creating circulating ground currents, which could create noise in the instrumentation cable. The noise could create problems in the protection system logic.

4. Corrective Action

The penetrations have been removed and the drain wires have been taped. Electrical personnel have been re-instructed that the Construction Guidelines for Cable Installation must be followed.