

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE BOX 764

COLUMBIA, SOUTH CAROLINA 29218

O. W. DIXON, JR.  
VICE PRESIDENT  
NUCLEAR OPERATIONS

June 14, 1982

USNRC REGION II  
ATLANTA, GEORGIA  
82 JUN 17 A10:18

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

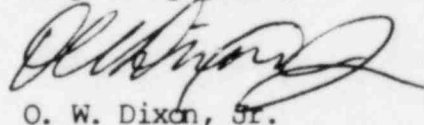
Subject: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Reportable Substantial Safety Hazard  
Reactor Protection Underfrequency  
Relay Failure  
NE File: 3.1051

Dear Mr. O'Reilly:

On May 26, 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 failure of the reactor protection underfrequency relays. Details are given on the attachment. This item is being reported under our 10CFR50.55(e) procedure.

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

Very truly yours,



O. W. Dixon, Jr.

DH:OWD:tdh

Attachment

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  
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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

Reactor Protection Underfrequency Relays

3. Identification of Firm Supplying Component

General Electric

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

During recent field testing, it was discovered that the  
reactor protection underfrequency relay's output contacts  
chattered. The cause of the contact's chatter could not be established.  
When this condition exists, the output contacts  
will not stay closed long enough to allow a timing circuit  
to operate. Therefore, the underfrequency relays would not  
initiate a reactor trip, as designed.

5. Date Information of Defect Was Obtained - April 5, 1982

6. Number and Location of Defect

Reactor Protection Cabinet - 2 underfrequency relays

Equipment No. XPN6011-81-1A & XPN6013-81-C

7. Corrective Action

The three reactor protection underfrequency relays will  
be replaced with a new and updated series of relays  
which will be verified to operate properly in this  
application. The manufacturer has been advised of  
the relay problem for pursuit of generic  
corrective action, if deemed a design problem.

8. Advice to Purchasers or Licensees

Possibly check for similar occurrences in similar applications.