

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

02 FEB 5 10 43 AM '82
February 2, 1982

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

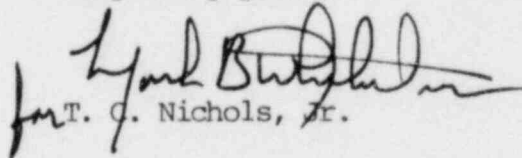
Subject: V. C. Summer Nuclear Station
Docket No. 50/395
Substantial Safety Hazard
Speed Switch Motor Ratcheting Solenoid
NE File: 3.1051

Dear Mr. O'Reilly:

On February 1, 1982, a substantial safety hazard as defined by 10CFR21 was reported to Mr. John Rogge at the NRC Region II office. The item involves failure of the Component Cooling Pump and Service Water Pump motor's speed switches. 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,


for T. C. Nichols, Jr.

DH:TCN:tdh

Attachment

cc: Page two



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Mr. James P. O'Reilly
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February 2, 1982

cc: J. P. O'Reilly
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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

Two Speed Motor Speed Switch

3. Identification of Firm Supplying Component

Brown Boveri Electric, Inc.

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

The component cooling and service water pump's speed switch motor ratcheting solenoid failed, leaving the speed switches unable to change state. The solenoid's terminal tab broke due to the stress applied by a bolted two wire connection and vibration created by numerous operations. This could result in the loss of a pump when a manual speed change is attempted or prevent the service water pump from changing to high speed upon initiation of the load sequencer.

5. Date Information of Defect Was Obtained - December 21, 1981

6. Number and Location of Defect

Component Cooling Pump #B Speed Switch - XES - 2001B-CC
Service Water Pump # Speed Switch - XES - 2003A - SW

7. Corrective Action

Replace the motor ratcheting solenoids on the speed switches for the component cooling motors and the service water motors. Replace the two wire bolted connection with a single wire soldered connection. Add a two wire terminal block for the connections between the ratcheting motor, DC power, and the motor ratcheting solenoid. Scheduled for completion prior to fuel loading.

8. Advice to Purchasers or Licensees

None.