

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE BOX 764

COLUMBIA, SOUTH CAROLINA 29216

81-433 000

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

May 20, 1981

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
Docket No. 50/395
Reportable Substantial Safety Hazard
Sodium Hydroxide Tank
Nuclear Engineering File 3.1051

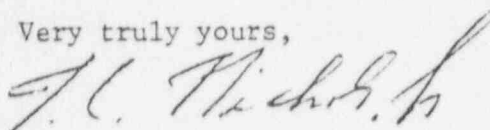
Dear Mr. O'Reilly:

On March 4, 1981, Mr. Virgil Brownlee of the NRC Region II Office was notified of a significant deficiency involving the Reactor Building Spray System's sodium hydroxide tank. An interim report was issued to the NRC on March 30, 1981, indicating that South Carolina Electric & Gas Company (SCE&G) had not completed its review of this problem.

SCE&G has now completed its review and has determined that this item is reportable under the provisions of 10CFR21 as a substantial safety hazard. Gilbert Associates has been notified of this report. Details are given on the attachment.

This is considered a final report.

Very truly yours,



T. C. Nichols, Jr.

GDM:TCN:glb

Attachment

cc: Page Two

8106040 525
S

Mr. James P. O'Reilly
May 20, 1981
Page Two

cc: V. C. Sumner w/o att.
G. H. Fischer w/o att.
T. C. Nichols, Jr. w/o att.
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10CFR21 - SUBSTANTIAL SAFETY HAZARD

1. Name and Address of Reporting Individual

Nancy E. Clark
South Carolina Electric & Gas Company
Post Office Box 764
Columbia, South Carolina 29218

2. Identification of Basic Component

Reactor Building Spray System's Sodium Hydroxide Tank

3. Identification of Firm Supplying Component

Applied Engineering Company

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

The Reactor Building Spray System's sodium hydroxide tank was not procured to operate under vacuum conditions. Although engineering judgement indicates the tank will not fail, without proper documentation, failure has been assumed. Failure of this tank could prevent the proper amount of sodium hydroxide from being injected into the Reactor Building spray during a loss of coolant accident. This would result in the potential for a release whose iodine content may exceed 10CFR100 limits. The specific cause of this problem will be addressed by Gilbert Associates.

5. Date Information of Defect Was Obtained - February 23, 1981.

6. Number and Location of Defect

There is one sodium hydroxide tank for Virgil C. Summer Nuclear Station located outside the Auxiliary Building in the Refueling Water Storage Tank pit.

7. Corrective Action

The sodium hydroxide tank is being qualified by calculation for the proper vacuum operating conditions. This qualifying effort is expected to be completed by July 1, 1981.

Corrective action as related to the specific cause will be addressed by Gilbert Associates.

8. Advice to Purchasers or Licensees

None

PART 21 IDENTIFICATION NO. 81-433-000 COMPANY NAME SC Elect + Re

DATE OF LETTER 8/20/81 DOCKET NO. 50-395

DATE DISTRIBUTED _____ ORIGINAL REPORT ☒ SUPPLEMENTARY ☐

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EES - *Mills*

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AEOD MNB 7602

AEOD/dmw mnb 7217

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NRR/ISI

NRR/DST

NRR/DOL

ASLBP E/W 450

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PDR

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ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOWUP AS SHOWN BELOW:

IE ☐

NRR ☐

NMSS ☐

OTHER ☐

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FUEL CYCLE & ☐

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CENTRAL FILES (CHRON)

PDR

LPDR

TERA



SAFEGUARDS (S) ☐

IE FILES

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