

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE BOX 764

COLUMBIA, SOUTH CAROLINA 29218

January 30, 1981

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

Mr. Harold R. Denton, Director  
Office Of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Subject: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Seismic Monitoring Program

Dear Mr. Denton:

South Carolina Electric & Gas Company (SCE&G), acting for itself and as agent for the South Carolina Public Service Authority, has reviewed the seismic monitoring program presently established and commits to expand this program as follows. This program will remain in effect until the end of 1982, at which time an evaluation will be made to determine if it should be continued.

1. We will continue operation of the seismic monitoring network at Monticello Reservoir, along with analysis of the data and quarterly submittal of the data to the NRC. The quarterly report will maintain its present format.
2. We will inform the Operating Reactor Project Manager by telephone of the location, depth and magnitude of any unusual activity as soon as possible after the event. Unusual activity should be considered to be any of the following:
  - a. Any earthquake larger than magnitude 2.5.
  - b. More than 100 seismic events per week.
  - c. Any plans to change the water level in Monticello Reservoir to less than 415' elevation or greater than 430' elevation.
3. We plan to install two (2) strong motion accelerometers in the free-field in the vicinity of the plant, one at the ground surface and one at bedrock. If the accelerometer located on bedrock records an earthquake with a peak acceleration of at least 0.10g and with an interval of at least 1 second where peak acceleration exceeds 0.05g, then a copy of the accelerometer record along with its response spectrum and a calculation of its stress drop will be included in the quarterly reports.
4. We will continue to look for correlations between seismicity and other variables, such as water level changes, and report any possible correlations in the quarterly reports.

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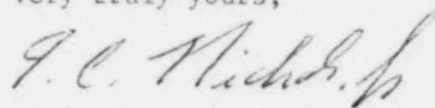
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5. We will continue to stay abreast of the Wateree Creek fault mapping being conducted by USGS through the University of South Carolina and report to the NRC any findings.

SCE&G plans to implement the portions of this program which are not yet established as soon as possible. In addition, these program commitments will be incorporated into the FSAR in the next amendment.

If there are any questions on this program, please let us know.

Very truly yours,



T. C. Nichols, Jr.

RBW:TCN:glb

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