

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of )  
 )  
SOUTH CAROLINA ELECTRIC & GAS ) Docket No. 50-395  
COMPANY )  
Virgil C. Summer Nuclear Station, )  
Unit 1) )

AFFIDAVIT OF WILLIAM F. KANE ON CONTENTION 4(b)

I, William F. Kane, being duly sworn, state as follows:

1. I am employed by the U.S. Nuclear Regulatory Commission as a Project Manager in the Division of Licensing, Office of Nuclear Reactor Regulation.

2. I am the Project Manager assigned to the Summer operating license application.

3. Contention 4(b) states:

The plans for monitoring site seismicity are inadequate in that they do not consider the seismic effect of filling the reservoir. Monitoring of site seismicity should continue through 1983.

4. As Project Manager for the Summer station, I participated in and supervised the preparation of the NRC Staff Safety Evaluation Report (SER) (NUREG-0717), including section 2.5.3 regarding, among other things, seismic monitoring.

5. The NRC Staff recognized a concern with reservoir-induced seismicity at the construction permit stage and required the Applicant to monitor possible microseismic activity in the vicinity of the Monticello


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Reservoir before, during, and after impoundment. See discussion SER, §2.5.3, pp. 2-31 and 32.


The Applicant has installed a seismic network at the Staff's request and has conducted a comprehensive program for monitoring site seismicity. This program is described in the Final Safety Analysis Report. In addition, the USGS also has a seismic network located around the Monticello Reservoir. Each of these programs is aimed at identifying the location and magnitude of seismic events related to filling of the reservoir. Prior to filling the Monticello Reservoir, USGS had a seismograph station at Jenkinsville, South Carolina (three miles east-southeast of the site). See SER, p. 2-22. On December 1, 1977, the Applicant installed a four-station seismic network in the area of the Monticello Reservoir under the guidance of Dr. Bollinger of the Virginia Polytechnic Institute and State University. Teledyne Corporation was contracted by the Applicant to analyze the data and quarterly reports were, and are continuing to be, submitted to the NRC. Filling of the reservoir began on December 3, 1977 and full pond elevation occurred on February 8, 1978. A strong motion accelerometer was installed by the USGS in February, 1978 on an abutment of Fairfield dam. In May, 1978, the USGS began a six-station seismic monitoring network in the area. In January, 1979 Dr. Talwani of the University of South Carolina took over the contract to analyze the Applicant's data. Dr. Talwani is also under contract to the USGS to analyze seismic data from their network near Monticello Reservoir.

The Staff believes it is prudent to continue monitoring the seismic activity in the Monticello Reservoir to detect possible changes in

seismic activity as a precursor to larger events. See SER, pp. 2-31 and 2-32. The Applicant has committed to continue monitoring the seismic activity in the Monticello Reservoir until the end of 1982 at which time an evaluation will be made to determine if it should be continued. The details of the Applicant's program are also described on pages 2-31 and 2-32 of the SER. In its March 18, 1981 letter, the ACRS requested the NRC Staff to assure that this program is not halted prematurely. The Staff will assure that this ACRS recommendation is met by imposing a condition to the operating license that the Applicant's seismic program will not be terminated without written approval from the Staff. The Staff does not believe that there is any present justification to impose an absolute requirement that seismic monitoring be continued through 1983.

  
\_\_\_\_\_  
William F. Kane

Subscribed and sworn to before me  
this 28<sup>th</sup> day of April 1981.

  
\_\_\_\_\_  
Notary Public

My Commission expires: July 1, 1982

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In the Matter

SOUTH CAROLINA ELECTRIC & GAS  
COMPANY

Virgil C. Summer Nuclear Station,  
Unit 1

}  
} Docket No. 395  
}  
}

CERTIFICATE OF SERVICE

I hereby certify that copies of NRC STAFF MOTION FOR SUMMARY DISPOSITION in the above-captioned proceeding have been served on the following by deposit in the United States mail, first class or, as indicated by an asterisk, through deposit in the Nuclear Regulatory Commission's internal mail system, this 7th day of May, 1981.

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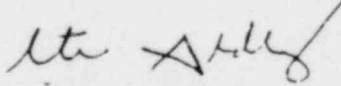
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