

SEP 24 1982

Docket No. 50-395

LICENSEE: South Carolina Electric & Gas Company  
FACILITY: Virgil C. Summer Nuclear Station  
SUBJECT: SUMMARY OF SEPTEMBER 15, 1982 MEETING REGARDING CONFIRMATORY SEISMIC ANALYSIS PROGRAM

General

Representatives of the NRC staff met with the licensee and its consultant to discuss the licensee's program for a conducting confirmatory seismic analyses to fulfill the requirements of Licensing Condition 25. The meeting was held in the NRC offices in Bethesda, Maryland. A list of those persons who attended the meeting is included in the enclosure.

Purpose

The purpose of the meeting was to discuss the extent to which the licensee's April 1981 commitment to ACRS to conduct a confirmatory seismic analysis program will be addressed and its relationship to the licensee's program for fulfilling the requirements of Licensing Condition 25.

Discussion

The staff completed its review of the seismic design of the facility in late 1980. Following that review, the staff and licensee met with ACRS. The staff's position was that the appropriate response spectrum which accounted for reservoir-induced seismic events exceeded the original design basis for the facility at certain frequencies. However, the licensee was able to justify those exceedances for safety-related structures and selected equipment located therein. The ACRS in its letter of March 18, 1981 noted that the licensee's studies on seismic design margin should be extended to all systems and components required for cold shutdown. It also noted that the completion of such studies need not be completed prior to operation.

In a letter dated April 15, 1981 the licensee stated that it had extended the studies as recommended by ACRS. The target date for completion of the program was June 1982. This schedule was interrupted because of the protracted ASLB hearings on this matter. During the ASLB hearings in late 1981, the staff became aware of additional accelerometer data made available by USGS for reservoir-induced seismic events near the facility. The data which was for an October 1979 event indicated a peak instrumental acceleration of 0.35g which was greater than the largest value (0.25g) previously observed and available to the ACRS during its review. As a result the staff modified the position it had presented to ACRS. We concluded that the response spectrum presented

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to ACRS was still appropriate for normal depth earthquakes of magnitude ML=4.5 and that for shallow earthquakes the maximum ground motion already recorded at the reservoir was appropriate.

Subsequently, when the ASLB issued its decision on July 20, 1982 it required that a confirmatory analysis be conducted for the maximum potential shallow earthquake. In effect the ASLB did not require the licensee to extend its confirmatory analyses to normal-depth events although it did acknowledge in its findings that such a program was currently underway.

The staff stated that the licensee must provide the following information in order to assure that these issues are acceptably resolved:

- (1) Program and schedule for resolving License Condition 25.
- (2) Program and schedule for resolving the ACRS commitment.
- (3) Interrelationship of the above two programs particularly as related to the establishment and ultimate use of any ground motion reduction factors

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Enclosure:  
As stated

cc: See next page

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F. Schauer  
G. Lear  
R. Jackson  
L. Heller  
J. King

SCE&G

H. Clark  
R. Whorton

Dames & Moore

R. McGuire

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MEETING SUMMARY

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MRushbrook  
Project Manager Wkane  
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Regional Administrator, Region 2

PARTICIPANTS (NRC):

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