OCT 2 8 1981

Docket No.: 50-395

APPLICANT: South Carolina Electric & Gas Company

FACILITY: Virgil C. Summer Nuclear Station, Unit 1

SUBJECT: SUPPLARY OF OCTOBER 9, 1981 MEETING REGARDING RESERVOIR

INDUCED SEISMICITY

1. General

Representatives of the staff and its consultant met with representatives of the applicant and its consultants to discuss reservoir-induced seismicity at the facility. The meeting was held at the NRC offices in Bethesda, Maryland. A list of those persons who attended the meeting is included in the enclosure.

2. Purpose

The purpose of the meeting was to discuss the applicant's evaluation of the recent reports by consultants to the Atomic Safety & Licensing Board (ASLB) and a report submitted by two USGS employees in response to an inquiry by the ASLB.

3. Discussion

The applicant's evaluation of the three reports is contained in two letters from T. C. Nichols to H. R. Denton, dated October 1, 1981 and October 8. 1981. The report of the two USGS employees Dr. W. Joyner and Dr. J. Flechter is contained in a September 11, 1981 letter from R. Morris to H. Grossman. The reports of the two ASLB consultants, Dr. M. Trifunac and Dr. E. Luco are contained in their reports to the ASLB both dated September 1981. The applicant summarized its evaluation of the three reports concluding in general that the issues raised in the reports were caused by misinterpretation or misinformation. The applicant has not changed its positions presented to the ASLB as a result of any of the information in the reports. The applicant stated that it had not discussed the areas of disagreement with the ASLB consultants or the USGS employees but had sent them copies of their evaluation. The applicant stated that USGS had installed an accelerometer in the free field near the one located on the dam. This occurred in mid-1980 and the applicant was not aware of this until only recently. The presence of the second instrument may be important in that it could establish whether the acceleration due to seismic events in the reservoir recorded by the instrument on the dam are amplified. However, no such evaluation has been performed by the applicant to date.

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Finally the applicant notified us that one of their consultants held discussions with USGS personnel earlier in the week. They stated that an unprocessed film record from an October 17, 1979 event might result in peak accelerations in excess of those for the August 27, 1978 event. Preliminary estimates obtained by scaling suggest an acceleration in excess of 0.3g for this ML=2.8 event. If this is correct it would represent the largest acceleration measured to date. The applicant stated that it is attempting to obtain more complete information for USGS and will keep the staff advised.

We noted that this information was of the type that should be forwarded to the ASLB immediately. The applicant stated that it planned to document this information in a letter to be issued not later than October 12, 1981. We stated that we would also plan to notify the ASLB of this information.

W. F. Kane, Project Manager Licensing Branch No. 1 Division of Licensing

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SURNAME *JYoungblood Mkane

DATE 10/ /81 10/28/81

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W. F. Kane, Project Manager Licensing Branch No. 1 Division of Licensing

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SURNAME	WKane/yt	BJ Youngb lood			***************************************	*****************
DATE	10/16/81	10/16/81	***************************************			*****************
NDC FOOL						

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Columbia, South Carolina 29218

cc: Mr. Henry Cyrus
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South Carolina Public Service Authority
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Group Manager - Nuclear Engineering & Licensing
South Carolina Electric & Gas Company
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Columbia, South Carolina 29218

Mr. Brett Allen Bursey Route 1, Box 93C Little Mountain, South Carolina 29076

Resident Inspector/Summer NPS c/o U. S. NRC Route 1, Box 64 Jenkinsville, South Carolina 29065

Dr. John Ruoff Post Office Box 96 Jenkinsville, South Carolina 29065

LIST OF ATTENDEES

NRC Staff

- W. Kane
- R. Jackson
- L. Reiter
- P. Sobel R. McMullen
- J. Kimball
- A. Murphy
- J. Chen
- A. Ibrahim
- S. Goldberg
- M. Young
- R. Rawson

Los Alamos Scientific Laboratories

C. Newton

South Carolina Electric & Gas Company

- M. Whitaker
- R. Whorton
- R. Mahan

Ertec

R. McGuire

Penn State University

- S. Alexander
- St. Louis University
- O. Nuttli

Dames & Moore

- J. IlcWhorter
- W. Smith

Gilbert Associates

C. Chen

South Carolina University

P. Talwani

URS/Blume

- J. Blume
- M. Sommerville
- D. Thaveri

Debevoise & Lieberman

- J. Knotts
- J. Sanford

MEETING SUMMARY DISTRIBUTION

Docket File NRC PDR Local PDR TIC/NSIC/Tera

OCT 2 6 1981

N. Hughes

LB#1 Reading H. Denton

E. Case

D. Eisenhut

R. Purple

B. J. Youngblood

A. Schwencer

F. Miraglia

J. Miller

G. Lainas

R. Vollmer

J. P. Knight

R. Bosnak

F. Schauer

R. E. Jackson Project Manager

Attorney, OELD

M. Rushbrook

OIE (3)

ACRS (16)

R. Tedesco

NRC Participants:

RJackson, LReiter, PSobel RMcMullen, JKimball, AMurphy JChen, AIbrahim, SGoldberg MYoung and RRawson

WKane

bcc: Applicant & Service List

G. Lear

W. Johnston

S. Pawlicki

V. Benaroya

Z. Rosztoczy

W. Haass

D. Muller

R. Ballard

W. Regan

R. Mattson

P. Check

F. Congel

O. Parr

F. Rosa

W. Butler

W. Kreger

R. Houston

L. Rubenstein

T. Speis

M. Srinivasan

J. Stolz

S. Hanauer

W. Gammill

T. Murley

F. Schroeder

D. Skovholt

M. Ernst

R. Baer

C. Berlinger

K. Kniel

G. Knighton

A. Thadani

D. Tondi

J. Kramer

D. Vassallo

P. Collins

D. Ziemann

RELIEVED 1981