

MAY 25 1979

Docket (Nos. 50-280  
50-281  
and 50-334

LICENSEE: Virginia Electric and Power Company (VEPCO) and  
Duquesne Light Company (DLC)

FACILITY: Surry 1 & 2 and Beaver Valley

SUBJECT: SUMMARY OF MEETING WAS HELD ON MAY 22, 1979, AT  
STONE AND WEBSTER TO REVIEW SOIL STRUCTURE INTERACTION  
METHODOLOGY

The subject meeting was held at the Stone and Webster (S & W) Building  
in Boston, Massachusetts with S&W, VEPCO and DLC.

A list of attendees is attached.

On May 14, 1979, by telephone and on May 18, 1979, by letter several  
questions were asked of VEPCO and DLC by the staff. The response to  
these questions are to provide a basis for accepting the use of soil  
structure interaction at Surry and Beaver Valley. The following agenda  
was followed for each facility and corresponds to the questions asked:

1. Clarification of soil properties used in REFUND, KINACT, AND PLAXLY.
2. Comparison of ARS using the low strain shear modulus, shear modulus  
from the first iteration of SHAKE and the last iteration of SHAKE.
3. (i) Effects of varying the low strain soil properties by +50% on  
the results of the SHAKE analysis. Comparison of response  
spectra at the mat foundation level and at the free field.  
(ii) Effects of (i) on the amplified floor response spectra at  
various locations.

The information presented in response to the May 18, 1979 will be provided  
by letter from each licensee and discussed further in a meeting to be  
held on May 24, 1979 at Bethesda. The purpose of this meeting was to  
review the information on an expedited basis and to determine, based on  
the review, if any additional information is needed.

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|     | SURNAME |  |  |  |  |  |
|     | DATE    |  |  |  |  |  |

Meeting Summary for  
Surry 1/2 and Beaver Valley

-2-

As a result of our review of the information at hand we requested that the following be provided.

Surry:

1. All curves on the same scale.
2. The numerical data for the response spectra for the range of interest for 1% damping and the low strain G and G+50% at high strain.
3. Ratios of the low strain G and the high strain G+50% to the average value for the 1% damping curves for the area of interest.
4. The lowest frequency of piping systems involved in the reanalysis.
5. Clarification of the FSAR damping value (1% or 1/2%).

Beaver Valley:

1. Peak broadened spectra for the response spectra provided.

Card decks were provided for both the Surry and Beaver Valley artificial earthquake.

Original Signed By

J. D. Neighbors, Project Manager  
Operating Reactors Branch #1  
Division of Operating Reactors

Attachment: List of Attendees

cc: w/attachment  
See Next Page

|            |                 |  |  |  |  |  |
|------------|-----------------|--|--|--|--|--|
| #34 OFFICE | DOR:ORB#1       |  |  |  |  |  |
| SURNAME    | J. D. Neighbors |  |  |  |  |  |
| DATE       | 05/05/79        |  |  |  |  |  |

List of Attendees at  
May 22, 1979 Meeting

NRC

D. Neighbors  
J. Kane  
K. Herring  
H. Polk  
J. P. Knight  
P. T. Kuo  
S. Chan  
J. Greeves

VEPCO

C. M. Robinson

S&W

S. Rossier  
C. Reeves  
A. Wang  
K. Condon  
J. Urchs  
S. Lucks  
F. Vetere  
D. Campbell

DLC

W. Wang  
A. Eggenberger  
P. Rizzo (D'appolonia)

#34 OFFICE >

SURNAME >

DATE >



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Beaver Valley:

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*J. D. Neighbors*  
J. D. Neighbors, Project Manager  
Operating Reactors Branch #1  
Division of Operating Reactors

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VEPCO

C. M. Robinson

S&W

S. Rossier  
C. Reeves  
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K. Condon  
J. Urchs  
S. Lucks  
F. Vetere  
D. Campbell

DLC

W. Wang  
A. Eggenberger  
P. Rizzo (D'appolonia)

Meeting Summary for Surry 1/2 and Beaver Valley

MAY 25 1979

Docket Files

NRC PDR

Local PDR

ORBI Reading

NRR Reading

H. Denton

E. Case

V. Stello

D. Eisenhut

B. Grimes

R. Vollmer

A. Schwencer

D. Ziemann

P. Check

G. Lainas

D. Davis

B. Grimes

T. Ippolito

R. Reid

V. Noonan

G. Knighton

D. Brinkman

Project Manager

OELD

OI&E (3)

C. Parrish

ACRS (16)

NRC Participants

J. Buchanan

TERA

Licensee

Mr. Michael W. Maupin

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U. S. Nuclear Regulatory Commission

Region II

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