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U.S. NUCLEAR REG. COMM.
ADVISORY COMMITTEE ON
REACTOR SAFEGUARDS

Dr. William Kerr
Chairman, Subcommittee on GETR
Department of Nuclear Engineering
University of Michigan
Ann Arbor, Michigan 48109

Dear Dr. Kerr:

At the request of Mr. Igne of the ACRS staff, I am writing to you to suggest specific agenda topics for the February 22, 1980 GETR subcommittee meeting. As I wrote to you on December 1, 1979, it appears to me that, putting aside disagreements over the interpretation of some of the geologic data, the major sources of disagreement lie in the areas of:

- A. the appropriate vibratory ground motion (acceleration) for design,
- B. the amount of surface offset to be associated with the observed shears.

The first two agenda topics below deal with the first question and the third topic deals with the second. It would be helpful to hear brief presentations by each of the parties (where appropriate) on these topics.

1. Regional seismicity.

- a. Distribution of epicenters - historic and recent instrumental results,
- b. Focal depths,
- c. Accuracy of current seismic networks in the region as it relates to 'a' and 'b'.
- d. Focal mechanisms as related to regional tectonics,
- e. Relationship of hypocentral distribution to known or postulated faulting, particularly the Livermore, Las Positas and Verona faults,
- f. Is the Calaveras fault the postulated source of the largest acceleration the site might experience?,
- g. If so, what is the maximum magnitude of the design earthquake? Basis for this?,
- h. What acceleration vs. distance data is used to determine the acceleration on site?, and
- i. What modification, if any, is made for possible near field effects?.

2. Site seismicity.

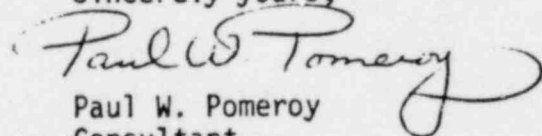
- a. Are there seismographs operating on or near the site?
- b. If so, what are the results? Specifically, are there microearthquakes occurring on site? If so, where?

3. Surface offsets.

- a. What are the surface offsets postulated by each party?
- b. What are the exact data bases on which the postulated offsets are based? (What I want to get at here is whether both parties are using the same data and, if so, what are the differences in interpretation?)
- c. How does the existence of the Las Positas fault relate to this determination?

I realize that the list of questions is long but many of them can be addressed briefly. I hope that these topics are useful to you in planning the meeting agenda. I believe that by elucidating the scientific bases for the positions of the parties involved, the subcommittee can decide the merits of the differing positions.

Sincerely yours,


Paul W. Pomeroy
Consultant