

# DAVID B. SLEMMONS

CONSULTING GEOLOGIST  
2995 GOLDEN VALLEY ROAD · RENO, NEVADA 89506 · (702) 972-8877

December 15, 1980

Dr. Robert E. Jackson, Chief  
U. S. Nuclear Regulatory Commission  
Geosciences Branch  
Division Site Safety and Environmental Analysis  
Washington, D.C. 20555

Dear Dr. Jackson:

During the last week I have edited my letter of November 5, 1980, and would like to have the following changes made to my draft letter:

p.1, line 7: Change from "I have been reviewing" to "I reviewed"

p.3, lines 9 to 14: Delete the last sentence starting, "Although I am familiar"

p.3, line 4: Delete the word "have"

p. 3, lines 29 through 35: Replace paragraph with "I was initially critical of the new fault slip rate method because of omissions and errors in original data base and the exclusion of the normal-slip and reverse-slip data. I now believe that the recent responses to questions include accurate and complete data and justify the exclusion of data from normal-slip faults, reverse-slip faults, and Japan.

p. 4, line 1: Delete "firmest,"

p. 5, last sentence of last paragraph with "Possible connections to the south include: (1) offshore connections from San Diego Bay to the Agua Blanca fault zone (Legg and Kennedy, 1979), which has late Quaternary offsets (Allen and others, 1960; Gastil and others, 1975), or (2) en echelon connections with the Calabasas fault (Gastil and others, 1975, 1979; fig. 361.66-1, No. 6, a fault that appears to be capable, the longer Vallecitos fault that does not appear to be capable, and the San Miguel fault zone (Shor and Roberts, 1958; Gastil and others, 1979) that has historic surface faulting.

p. 6, lines 21 to 30: Change to read as follows:

These data control the line, bounding extremes of bracketed ranges of data (MEL of figure 361.38-4). The probable limiting boundary for a slip rate of 0.5 mm/yr is 6.3, as defined by the line bounding maximum observed historical earthquakes (MEL). The most conservatively defined line bounds extremes of the bracketed ranges of data by using the extreme corners of the error boxes for present data ( ), and suggests a maximum magnitude of about 6.85. The data base for these figures is based on a very short historic record of earthquake activity; future earthquakes and newer data are likely to extend the limites to some indeterminately higher value. Accordingly,...."

p. 7, line 9: Replace with "(2) the probably inaccurate nature of some published data"

p. 12, lines 2 to 7: Replace with

"1. Length of many faults are defined, or have been suggested in various publications.

2. Faults are generally terminated by cross-cutting faults, or a branching relationship from a fault with a higher slip or strain rate, or by connection to plate tectonic boundaries."

p. 13, line 32: Replace "247" with "250".

p. 14, line 9: Replace "247" with "250"

I believe the above suggested changes will improve the accuracy and clarity of the report.

Sincerely yours,

*DBS*

David B. Slemmons  
Consulting Geologist