

NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20355

January 21, 1980

MEMORANDUM FOR: R. E. Jackson, Chief, Geosciences Branch, DSS

HRU:

L. Reiter, Section Leader, Goology and Seismology Section,

Crosciences Branch, DSS

FROM:

R. B. McMullen, Geologist, Geosciences Branch, DSS

SUBJECT:

NEW SEISMIC REFLECTION DATA REGARDING STRUCTURAL RELATIONS

OF OFFSHORE EXTENSIONS OF THE SAN SIMEON FAULT ZONE

On January 16, 1980, I was made aware of an abstract presented in the EOS, Vol. No. 46, November 13, 1979 entitled "Continuity and Recency of Movement on Offshore Extensions of the San Simeon Fault Zone, Central California," by R. B. Lesley, of the University of California, Santa Cruz. The abstract presents the author's interpretation of seismic reflection profiling data taken in shallow water across southern extensions of the San Simeon fault zone. Mr. Lesley interprets the data to show that the San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward from San Simeon fault can be traced approximately 10 km southeastward fault can

I called Jim Devine of the U. S. Geological Survey (USGS), who in turn contacted the USGS office in Menlo Park, Calif. Mr. Devine indicated that a marine geologist at Menlo Park who had seen the data, believes that the records are good and sees no reason to disagree with Lesley's interpretation at the present time.

Mr. Devine also said that this new data does not change the USGS's conclusion regarding the maximum earthquake on the Hosgri fault zone because a possible connection between these two faults at depth had been assumed in their analysis. Regarding post-Wisconsinan offsets, the Applicant had earlier mapped post-Wisconsinan offset within the San Simeon fault system onshore. In its safety evaluation of the Diablo Canyon site, the IRC accepted the USGS's recommendation regarding the SSE, therefore, we see no reason to alter our conclusion that the assumption of the occurrence of a 7.5 magnitude carthquake on the Hosgri fault at its closest approach to the site is appropriately conservative.

R. B. McMullen, Geologist Geology and Seismology Section Ceosciences Branch Division of Systems Safety

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