



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

SEP 10 1974

L. Rogers, Director
Directorate of Regulatory Standards

SRI-4

MAP SHOWING REGENCY OF FAULTING IN COASTAL SOUTHERN CALIFORNIA

This memo is one of a series to transmit safety research information to you for the assistance it may provide in regulatory use.

The enclosed map providing updated information on faulting in Coastal Southern California is furnished for this purpose. This preliminary map was transmitted to the AEC by the U.S. Geological Survey on September 5, 1974, and is available to the public as USGS Miscellaneous Field Studies Map MF-585. This represents more than three years effort by members of the Geologic Environmental Mapping project and the Offshore Geology and Geophysics project of the Survey.

The map depicts the location and recency of displacement of faults in the coastal and offshore region of California from Point Arguello to the Mexican border. The type of geologic control used to determine age of latest displacement is shown by symbol for each fault. A reliability diagram on each sheet shows an assessment of the degree of assurance that faults and their age assignment are completely known in different areas.

The map was compiled from evaluated map sources and from limited field examinations. Approximately 200 map sources were used in the compilation. These are indexed on sheet 3 and listed in the accompanying text.

The primary purposes and intended uses of the map are to permit the identification and investigation of faults that may be of significance to the evaluation of sites for nuclear facilities. It should be valuable also for general land-use planning in the region. Whereas the map represents the most exhaustive evaluation and compilation of geological faults that exists for this area, it is not intended to replace detailed studies of individual sites.

SEP 1 1974

The Division of Reactor Research and Development provided support for this research through FY-1974. Programmatic responsibility for the effort was transferred to the Division of Reactor Safety Research, and work is currently underway to extend the mapping northward to Monterey.



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Enclosure:
Map MF-585

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