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YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
STUDY PLAN APPROVAL FORM



Study Plan Number 8.3.1.17.4.3

Study Plan Title QUATERNARY FAULTING WITHIN 100KM OF YUCCA MOUNTAIN, INCLUDING
THE WALKER LANE

Revision Number 1

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3.3.6 Equipment

Lists of required equipment are given in the technical procedures listed in table 3.3.

3.3.7 Data-reduction techniques

A report on the interpretation of selected areas of ground rupture produced in the 1932 earthquake will be based on evaluation of existing reports and limited field investigations. A report on the relationship of Stewart and Monte Cristo Valley faults to the Walker Lane will also be based on interpretations derived from existing reports. Maps produced by this activity will be compiled from observations made on aerial photographs and on the ground surface using standard data reduction techniques. Observations made or plotted on aerial photographs will be transferred to scale-stable base maps using the Kern PG-2 stereographic plotter or, in some cases, visually.

3.3.8 Representativeness of results

The work planned for this activity is being designed to provide a thorough review of existing information and a comprehensive evaluation of newly acquired data pertinent to the 1932 Cedar Mountain earthquake. The results are therefore expected to be representative of the geologic structures and other parameters associated with this event. It should be noted, however, that the quality of data bearing on the fault plane solution (Doser, 1987) must be assessed in view of the limited number of seismograph stations operating in 1932. The reported normal fault scarps (dip-slip movement) of some ground ruptures need to be reconciled with the right lateral slip of the fault plane solution.

3.3.9 Relations to performance goals and confidence levels

See sections 1.2 and 4.

3.4 Activity 8.3.1.17.4.3.4 Evaluate the Bare Mountain fault zone

The objectives of this activity are to:

- Evaluate the potential for ground shaking associated with future movement along the Bare Mountain fault zone
- Estimate the age of the most recent faulting on the Bare Mountain frontal fault
- Estimate the recurrence intervals of faulting

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