

TECHNICAL ASSISTANCE PROJECT  
Identification and Evaluation of Seismo-Tectonic Issues  
Related to Repository Site Characterization Plans

(NRC FIN No. A-0297)

QUARTERLY PROGRAM REPORT

No. 2

1. Introduction

The purpose of this QUARTERLY PROGRAM REPORT is to summarize on a quarterly basis our progress of work under the FIN A-0297 program.

The objective of this program is to provide the U.S. Nuclear Regulatory Commission (NRC) with an independent evaluation of the U.S. Department of Energy's (DOE) seismo-tectonic assessments and plans for future investigations to assure that there is adequate information to complete performance assessments in licensing. To achieve this objective, we focus our work on:

- a. Existing data base and adequacy of methods used to collect and interpret the data;
- b. Site-specific seismo-tectonic issues (in basalt at Hanford, Washington, in tuff at Yucca Mountain, Nevada, and in salt at sites designated by the DOE's Salt Repository Projects Office (SRPO));
- c. Identification of additional information needed to perform quantitative assessments to determine if there is reasonable assurance that the site in question will meet the performance objectives of 10 CFR Part 60;

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- d. DOE responses leading to resolution of open seismo-tectonic items either prior to, or within the site characterization plans (SCP);
- e. Review and comment on SCP updates and prepare sections of NRC analyses; and
- f. Review public comments on DSCA and prepare final SCA.

## 2. Progress in the Second Quarter (November 1986 - January 1987)

The task on the development of a volcanic hazards assessment for the NNWSI site, Yucca Mountain, Nevada vicinity, was accomplished. A letter report summarizing our development of the NNWSI site volcanic hazards assessment was submitted to the NRC on 29 January 1987.

In accordance with Task II of the A-0297 program, we accomplished our review and evaluation of the final draft report entitled "Survey of Geophysical Techniques for Site Characterization in Basalt, Saltm and Tuff," prepared by the Weston Geophysical Corporation. Our letter report on this task was submitted to the NRC on 20 November 1986.

Also in accordance with Task II of the A-0297 program, we accomplished our evaluation of a U.S. Geological Survey report entitled "An Evaluation of Seismic Reflection Studies in the Yucca Mounatin Area, Nevada Test Site," USGS Open-File-Report No. 83-912. A letter report on this review and evaluation was submitted to the NRC on 15 January 1987.