

REVIEW OF:

Preliminary Seismic Design Cost-Benefit Assessment
of the Tuff Repository Waste-Handling Facilities
by C. V. Subramanian, N. Abrahamson, A. H. Hadjian, L. J. Jardine,
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SIGNIFICANCE TO NRC'S WASTE MANAGEMENT PROGRAM

This report presents a preliminary cost-benefit assessment of the repository waste-handling facilities that will be used to evaluate the options for the seismic design basis for the advanced conceptual design of the waste-handling facilities. The advanced conceptual design forms the second phase of the repository-design program, the first phase being the conceptual design which has been documented in the Site Characterization Plan (SCP) Conceptual Design Report¹ and the Site Characterization Plan². This report forms a part of the SCP progress report as evidenced by its inclusion in the combined first and second progress report on site characterization activities at Yucca Mountain³. The repository waste-handling facilities are important to radiological safety and evaluation of their design for vibratory ground motion and fault displacement is an important part of NRC's Waste Management Program.

BRIEF SUMMARY OF DOCUMENT

The document includes a preliminary analysis of the cost-benefits associated with changes in the seismic design basis of the waste-handling facilities at the Yucca Mountain project. The report is based on limited quantitative analysis and

¹SNL (Sandia National Laboratories), 1987, Site Characterization Plan Conceptual Design Report, SAND84-2641, 6 Vol., Sandia National Laboratories, Albuquerque, NM.

²DOE (U. S. Department of Energy), 1988. Site Characterization Plan: Yucca Mountain Site, Nevada Research and Development Area, Nevada, 8 Volumes, DOE/RW-0199, Washington, D. C.

³DOE (U. S. Department of Energy), 1990. Progress Report on the Scientific Investigation Program for the Nevada Yucca Mountain Site, DOE/RW-0217P, Washington, D. C.

Remainder of document cannot be located.