

GUIDELINE FOR SEISMIC DESIGN OF A GEOLOGIC REPOSITORY FOR HIGH LEVEL NUCLEAR WASTE

**Prepared by
Working Group on Seismic Design for a
High Level Waste Geologic Repository
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Motivation

- Guidelines are needed that:
 - provide state-of-practice engineering methods and criteria
 - have scientific and engineering consensus

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Process

- Draft/develop guidelines
- Hold ASCE topical conference
- Finalize guidelines
- ASCE review and publication

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Scope

- 1.0 Introduction
- 2.0 Description of a geologic repository for HLW
- 3.0 Definition of design loads
- 4.0 Analysis requirement and guideline technical criteria for subsurface design
- 5.0 Analysis requirements and acceptance criteria for surface facility design
- 6.0 Monitoring and Instrumentation guidelines for construction and long-range monitoring

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Schedule and Status

- Draft guidelines complete
- ASCE topical conference - August 19, 20, 1992
- Revised guidelines, September 30, 1992
- ASCE Review - October, 1992 - June 1993
- ASCE Publication - July 1993