

U.S. DEPARTMENT OF ENERGY  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

**NUCLEAR WASTE TECHNICAL REVIEW BOARD  
PANEL ON STRUCTURAL GEOLOGY & GEOENGINEERING**

**SUBJECT: SUMMARY OF PRESENTATIONS  
BY DOE**

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YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT**

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# Summary of DOE Presentations

- **Seismic loading anticipated at site appears to be well within design capabilities and experience**
- **Underground facilities are naturally robust and will readily accommodate expected seismic events**
- **Geological setting and fault crossing are important factors in localization of minor damage**
- **Surface facility is inherently robust and design for anticipated ground motion is well within available technology**

# DOE Plan for Seismic Hazard Investigations Beginning or Ongoing in FY92

## Needed Information

- Fault displacement near surface facilities
- Discriminate among tectonic models
- Fault detection, displacement, tectonic setting
- Contemporary seismicity, earthquake recurrence and size

## Activity

- Midway Valley trenching and mapping
- Seismic reflection line across Yucca Mountain
- Quaternary faulting studies - ongoing
- Seismic monitoring network