YUCCA MOUNTAIN PROJECT
DRIFT STABILITY WORKSHOP

PANEL MEMBERS

- Tor Brekke (Chair)
- Edward Cording
- Jaak Daemen
- Roger Hart
- John Hudson
- Peter Kaiser
- Sebastiano Pelizza

SCOPE

- To obtain an expert opinion and report regarding drift stability and the degree of ground control needed for varying design conditions
- The report will be used as input to a decision analysis that will determine the types of ground control to be proposed for use on the project

- The workshop report will address host rock behaviors:
  - Degradation mechanisms
  - Temperature effects
  - Drift diameter effects
  - Water mobility effects
  - Host rock strata effects
  - Identification of other significant variables
  - Expected effectiveness of varying ground supports

Rock Mass Characteristics

- Description of Lithographic Units at Repository Level
- Comparison of support conditions in main drift and cross drift
- Rock mass properties of the lithophysal zones

Anticipated Excavation Behavior

- Factors affecting drift stability
- Anticipated excavation degradation modes

Ground Support

- Support design considerations

Concluding Remarks

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