



**STATE OF NEVADA**

**Presentation To**

**NUCLEAR WASTE TECHNICAL REVIEW BOARD**

**SUBJECT: SUMMARY - TECHNICAL CONCERNS**

**DATE: JUNE 26, 1989**

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## SUMMARY

- **FOUR GENERAL SITE SUITABILITY CONCERNS ARE INTERRELATED:**
  - 1. SITE SUITABILITY TECHNICAL ISSUES**
  - 2. REGULATORY POLICY ISSUES**
  - 3. SITE DISTURBANCE ISSUES**
  - 4. LONG-TERM POST-CLOSURE ISSUES**



## GENERAL OBSERVATIONS

1. SOUTHERN NEVADA AREA IS ACTIVE GEOLOGICALLY, TECTONICALLY, AND GEOHYDROLOGICALLY.



2. YUCCA MOUNTAIN IS TECTONICALLY AND GEOHYDROLOGICALLY COMPLEX.



3. COLLECTION OF ADEQUATE, RELIABLE,  
REPRESENTATIVE DATA TO RESOLVE  
SOME ISSUES MAY BE DIFFICULT TO  
IMPOSSIBLE WITH THE PRESENT STATE  
OF TECHNOLOGY



4. PREDICTION OF SITE PERFORMANCE  
OVER 10,000 YEARS WITH REASONABLE  
ASSURANCE MAY NOT BE POSSIBLE  
AT YUCCA MOUNTAIN



## CONCLUSIONS

- YUCCA MOUNTAIN HAS NOT BEEN DETERMINED TO BE A SUITABLE SITE FOR ISOLATION OF HIGH-LEVEL RADIOACTIVE WASTE.
- IT IS QUESTIONABLE WHETHER DEMONSTRATION OF SUITABILITY AND REASONABLE ASSURANCE OF WASTE ISOLATION CAN BE ACHIEVED.