

## **STATEMENT OF WORK**

**Dr. Mark Evans**

**February 1, 2001 - Present 2003**

Dr. Evans will continue his independent analysis of vein filling calcite from fault zone samples collected from the Exploratory Studies Facility (ESF) at Yucca Mountain. Dr. Evans will analyze mechanical deformation of twinned calcite crystals and assess deformation conditions based on calcite twin characteristics and fluid inclusions within the calcite. Dr. Evans will contribute to SDS milestones summarizing the results of this work.

**Statement of Work**  
**Dr. James P. Evans**  
**May 10, 2002**

The work to be accomplished under this consulting agreement will consist of field and laboratory measurements and observations to evaluate spatial and scale variability important for estimating hydrologic properties in fractured and faulted nonwelded to moderately welded tuffs at Yucca Mountain and any appropriate analog site (e.g., the nonwelded Bishop Tuff near Bishop, CA).