

STATEMENT OF WORK FOR JULIET CRIDER-FEBRUARY 19, 2003

Dr. Crider will perform numerical analyses of the local perturbed stress fields produced by slip on normal faults in a regional extensional stress field. Models will be designed to be analogous to faulting at Yucca Mountain during different periods of Miocene to present fault activity. This modeling will aid in the assessment of natural fracture patterns in and around the candidate high level radioactive waste repository site at Yucca Mountain. It is anticipated that this work will contribute to an ongoing CNWRA project to evaluate stress field evolution and fracturing in the Tiva Canyon and Topopah Springs tuffs, and be incorporated into a future milestone report.