

SUPPORT FOR CONTRACTOR REQUEST

CONTRACTOR: John Wickham

RATE (dollars/hour): expenses

PERIOD OF PERFORMANCE: July 26, 2000 to July 25, 2001

STATEMENT OF WORK:

Dr. Wickham will review scaling of analog models for structural deformation in the earth's crust. In particular, he will review Buckingham's PI and Hubbert's dimensional approaches for the dynamic scaling of model and analog materials. Analog materials have been used at the CNWRA for analog models of deformation processes at various scales relative to the proposed Nuclear Waste Repository at Yucca Mountain, Nevada.

ESTIMATED UTILIZATION (hours): 40 hours

PRIOR CONTRACTOR WORK EXPERIENCE WITH SwRI: None

PROGRAMMATIC NEED FOR CONTRACTOR WORK:

This work will verify scaling laws used in CNWRA physical analog modeling studies.

LIST OF ELIGIBLE CONSULTANTS CONSIDERED: None.

RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:

Dr. Wickham is an expert in this field and has done similar work for several major oil companies.

RATIONALE FOR NOT USING SwRI RESOURCES:

Expertise does not exist.

PROJECT NUMBER(S): 20.01402.471