

## **SUPPORT FOR CONTRACTOR REQUEST**

**CONTRACTOR:**

Craig B. Forster

**RATE (dollars/hour):**

**PERIOD OF PERFORMANCE:**

April 30, 2001, to April 29, 2002

**STATEMENT OF WORK:**

Dr. Forster's primary tasks will be to work with structural geologists to produce representative suite of equivalent hydraulic properties for aquifer strata, including fault zones, fractured damage zones around faults and fault blocks, and to work with hydrologists to incorporate these results into saturated zone groundwater flow simulations of the Yucca Mountain hydrologic system.

**ESTIMATED UTILIZATION (hours):**

80 hours

**PRIOR CONTRACTOR WORK EXPERIENCE WITH SWRI:**

None

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**PROGRAMMATIC NEED FOR CONTRACTOR WORK:** The role of fractures and faults in hydrologic flow has a number of uncertainties associated with it. This work will specifically look at the role of faults and damage zones around faults as hydrologic pathways and barriers.

**LIST OF ELIGIBLE CONSULTANTS CONSIDERED:**

None

**RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:**

Dr. Forster has a number of years of experience in studying the hydrology of faults both in the field and in modeling flow associated with faults.

**RATIONALE FOR NOT USING SWRI RESOURCES:**

Expertise does not exist

**PROJECT NUMBER(S):**

20.01402.471, 20.01402.861