

SUPPORT FOR CONTRACTOR REQUEST

CONTRACTOR: Dr. Ghislain de Marsily

RATE (dollars/hour):

PERIOD OF PERFORMANCE: April 26, 1999 through April 26, 2000

STATEMENT OF WORK: Dr. de Marsily will participate in a review of the NRC/CNWRA Total-system Performance Assessment (TPA) Version 3.2 compute program. His review of TPA 3.2 will address the approaches used to model infiltration, seepage into drifts, and radionuclide transport in the unsaturated and saturated zones. Dr. de Marsily will review written materials provided to him prior to the meeting, participate in the external review meeting, and prepare a formal written report that will be used as partial basis for the CNWRA external review report.

ESTIMATED UTILIZATION (hours): 160

PRIOR CONTRACTOR WORK EXPERIENCE WITH SWRI: None

PROGRAMMATIC NEED FOR CONTRACTOR WORK: The external review of the TPA Version 3.2 code is identified as item 20-1402-761-404 in Revision 13 Change 0 of the CNWRA Operations Plans for the Repository Program for FY1999 under Contract NRC-02-97-009.

LIST OF ELIGIBLE CONSULTANTS CONSIDERED: Candidates for the external reviewer positions were identified using a peer nomination. Initially, five potential consultants, were considered for the hydrogeologist position; however, only Johan Anderson, Matt Kozak, and Ghislain de Marsily were considered as finalists.

RATIONALE FOR SOLE/SINGLE SOURCE SELECTION: Dr Thompson was selected over Dr. Anderson and Dr. Kozak because he received more votes during the peer nomination process.

RATIONALE FOR NOT USING SwRI RESOURCES: One objective of the external review is to use experts who are as independent of the CNWRA and SwRI as possible

PROJECT NUMBER(S): 20-1402-761