

SUPPORT FOR CONTRACTOR REQUEST

CONTRACTOR: Dr. F. Ward Whicker

RATE (dollars/hour):

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

STATEMENT OF WORK: Dr. Whicker 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 focus on the manner in which the biosphere and receptor group are treated in the TPA Version 3.2, with particular emphasis paid to the development and use of dose conversion factors. Dr. Whicker 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 process. Approximately 10 potential consultants were considered originally for the health physics position; however, only three finalists in addition to Dr. Whicker were considered. (1) Graham Smith, (2) John Till, and (3) Pascal Santucci.

RATIONALE FOR SOLE/SINGLE SOURCE SELECTION: The radiation health physicists from the NRC and the CNWRA felt that of the four finalists, Dr Whicker was the best qualified to serve as an external reviewer.

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