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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO: 20-1402-861

REPORT NO: 99-18

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SURVEILLANCE SCOPE: Surveillance activities on Unsaturated and Saturated Flow Under Isothermal Conditions Technical Assistance

REFERENCE DOCUMENTS: CNWRA HLW Operations Plans, Rev 13, Chg 1; CNWRA Program Manager's Periodic Report for Period 8; QAP-004 Surveillance Control Procedure

STARTING DATE: June 7, 1999

ENDING DATE: June 7, 1999

QA REPRESENTATIVE: Mark R. Ehnstrom *MRE*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: J. Winterle, E. Percy

SATISFACTORY FINDINGS:

Discussions were held with J. Winterle to discuss project activities on the Unsaturated and Saturated Flow Under Isothermal Conditions. Discussions first concentrated on the different software programs being used. J. Winterle stated that AQTESOLV, BREATH, MULTIFLO, MATLAB, and MICROFEM were used during project activities. Review of the CNWRA Master Directory of Scientific & Engineering Software revealed that all appeared on the list with the exception of MATLAB. The discussions with the EM, E. Percy, explained that MATLAB is more of a computer language than a Scientific and Engineering software program that is expected to be used in the regulatory review process by the CNWRA. The surveillance also identified consultants used for project activities. David Woolheiser, Dani Or, and Stu Stothoff Professional Personnel Qualification files were reviewed and showed all had completed QA indoctrination with the CNWRA quality manual and all had documentation showing they had been evaluated for conflicts of interest. Scientific Notebooks Nos. 195, 197, 217, and 311E were reviewed to requirements identified in QAP-001, Scientific Notebook Control. Major Milestone 1402-861-920, Input to USFIC IRSR Revision 2-Letter Report, was reviewed for conformance to QAP-002. Based on the review, the records were acceptable and complete.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO: N/A

ATTACHMENTS: NONE

RECOMMENDATIONS/ACTIONS: NONE

APPROVED: *James M. ...*
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 6/23/99

DISTRIBUTION: ORIGINAL -
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