



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

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PROJECT NO: 20-5708-860

REPORT NO: 96-18

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SURVEILLANCE SCOPE: Isothermal and Non-isothermal Flow KTI Activities

REFERENCE DOCUMENTS: Current PMPR, FY96 Operations Plans (Since FY97 plans have not yet been released.)

STARTING DATE: November 22, 1996

ENDING DATE: December 6, 1996

QA REPRESENTATIVE: R. D. Brient *RDB*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: E. Percy, S. Stothoff, G. Wittmeyer, D. Turner, J. Prikryl

SATISFACTORY FINDINGS:

Task 1 - Technical Assistance: Studies in infiltration are ongoing. Scientific Notebook #163 was reviewed (it is an electronic notebook, first captured on October 4, 1996 for QA records) and found to have appropriate and adequate documentation. Computer files located on CNWRA shared drives were thoroughly identified. Watershed modeling has been performed by a consultant using the uncontrolled software KINEROS. KINEROS does not appear to meet the criteria for TOP-018 control, but calculations using this code must be documented in accordance with QAP-014 nonetheless. The information needed was discussed with the investigators and has been submitted to the CNWRA along with the Woolhiser's report. QAP-014 will be provided to Woolhiser to make sure that the necessary information is submitted for future reports as well. Preliminary activities are being conducted in developing a geographic information system (GIS) database for dilution studies. Scientific Notebook #198, initiated 10/29/96, was reviewed and found to have adequate initial and in-process entries. Initial entries included objectives, method, equipment (including software), and the procedure.

Task 2 - SUFLAT Code Development: Design and development were completed some time ago. Documentation to satisfy TOP-018 is being assembled, and expected to be completed in January, 1997.

Task 3 - BREATH Code Development: BREATH v1.2 development was completed some time ago. Documentation is being assembled and expected to be complete by February 1997. Version 1.3 may be started, with an SRD, soon thereafter.

Personnel qualification were verified for E. Percy, S. Stothoff, G. Wittmeyer, D. Turner, J. Prikryl, D. Skelton, and D. Woolhiser.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO: None

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS: None

APPROVED: *[Signature]*

CNWRA DIRECTOR OF QUALITY ASSURANCE

DATE: 12/7/96

DISTRIBUTION:

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