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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-1402-871

REPORT NO.: 99-09

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**SURVEILLANCE SCOPE:** Surveillance Activity on Key Technical Issue-Radionuclide Transport Technical Assistance

**REFERENCE DOCUMENTS:** QAP-004, Surveillance Control; CNWRA Operations Plans, Rev. 13, Chg. 1, April 1999; CNWRA Program Manager's Periodic Report for Period 7, FY99; Latest Quality Requirements Application Matrix.

**STARTING DATE:** 5/4/99

**ENDING DATE:** 5/18/99

**QA REPRESENTATIVE:** Mark R. Ehnstrom *(MRE)*

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** D. Turner, S. Painter, J. Prikryl, and A. Jain

**SATISFACTORY FINDINGS:** Discussions were held with David Turner and Scott Painter to determine compliance with procedure requirements in the Radionuclide Transport (RT) Key Technical Issue. Prior to these discussions, reviews were performed on the CNWRA Operations Plans for the Repository Program Revision 13 Change 1 dated April 1999, and the Quality Requirements Application Matrix to better evaluate what were the important areas. As a result of these discussions the following areas were evaluated.

**Report Reviews**

Three Intermediate Milestone reports from the September/October 1998 time frame, on which to concentrate the surveillance. Milestone Nos. 1402-871, phases 920, 940, and 950 were reviewed. The review found in all three reports that the wrong form was used in providing instructions to technical reviewers. Form QAP-12-4 "Instructions To Technical Reviewers" was revised in June 1998. This revision kept the same title but changed the form to reflect cost information. A discussion was held with the appropriate support staff member to assure the proper form is now being used. An evaluation was performed between the two forms and CNWRA QA determined no additional action was required due to the differences in the form.

**Software Utilized**

Interviews discussed the 3 main software programs being used by RT activities. These programs, MINTEQA2, GWB, and PHREEQC are placed under TOP-018 controls and are listed on the CNWRA Master Directory of Scientific & Engineering Software. Discussions also revealed that Dr. Painter was developing code for use in the RT area. Discussions with Dr. Painter found that this code was still in the development phase and would be used in the RT KTI. This new code, not yet titled, when appropriate will be placed under the appropriate controls identified by TOP-018.

**Laboratory Reviews**

Surveillance was performed on activities being performed in Bldg. 51 for the RT KTI. Discussions with J. Prikryl and A. Jain regarding experiments, equipment, and scientific notebook entries. This part of the surveillance resulted in the recommendation discussed below.

**UNSATISFACTORY FINDINGS:** There were no unsatisfactory findings concerning this limited scope surveillance.

**NONCONFORMANCE REPORT NO.:** N/A

**ATTACHMENTS:** None

**RECOMMENDATIONS/ACTIONS:** During the review of Scientific Notebook No. 266 it was observed that occasionally batch numbers were not recorded for reagents and solutions for all tests performed. Discussions with A. Jain revealed that these lot/batch numbers were earlier recorded on previous experiments but not listed for all experiments. A. Jain agreed to update these annotations in the scientific notebook. This activity was verified on 5/20/99.

APPROVED:

*Brian Mabrito*  
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE:

5/20/99

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