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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-073/074

REPORT NO.: 95-08

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REFERENCE DOCUMENTS: CQAM Section 12 Control of M&TE; QAP-001 Scientific Notebook Control; QAP-014 Documentation and Verification of Routine Calculations; Quality Requirements Application Matrix 20-5704-073 and 20-5704-074.

STARTING DATE: September 14, 1995

ENDING DATE: September 19, 1995

QA REPRESENTATIVE: Mark R. Ehnstrom *MRE*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Robert Pabalan, Principal Investigator, and F. Paul Bertetti, Research Scientist

SATISFACTORY FINDINGS: Surveillance activities were performed in the Sorption Experiments and Sorption Reporting areas for the CNWRA. The specific areas reviewed consisted of applicable areas in the aforementioned referenced procedures. Specific areas from QAP-001 which were reviewed included:

Conformance to Paragraph 32—Thin review found that when simultaneous activities were occurring additional Scientific Notebooks (SNs) were issued and references were made to other SNs when appropriate.

Conformance to Paragraph 3.4.1—Equipment and materials to be used in experiments were referenced in the SNs. Compliance to Section 12 Paragraph 12.4.1(4) was also observed as calibrated equipment contained the required calibration tag showing the necessary information.

Conformance to Paragraph 3.64—SNs were bound and pages sequentially numbered. Additionally, at the end of a notebook, a notation was made to identify the next appropriate notebook. At the beginning of the new notebook a notation was made to identify the last appropriate notebook.

Paragraph 3.63—No computer codes or significant data had been acquired by any computer methods.

Two reports were reviewed during the surveillance:

“Sorption Modeling for High-Level Waste Performance Assessment NRC High-Level Radioactive Waste Research at CNWRA,” Chapter 3, Semi-Annual Research Report, January–June 1995

“Uranium (6+) Sorption on Montmorillonite: Experimental and Surface Complexation Modeling Study,” August 29, 1995.

Copies of these reports are contained in the data storage facility located in SWRI Building 189.

UNSATISFACTORY FINDINGS None

NONCONFORMANCE REPORT NO.: N/A

ATTACHMENTS Attachment A identifies which notebooks and equipment were reviewed during the surveillance.

RECOMMENDATIONS/ACTIONS: During the surveillance it was observed that a Quality Assurance Lead Auditor had reviewed a significant portion of the SNs up to November 1994. This surveillance was taken as a result of corrective action identified in Corrective Action 94-02. The possibility of performing a review on SNs as they are completed by someone in quality should be explored. Although periodic surveillance should identify any adverse trends or noncompliances to procedure QAP-001, a final review on completed SNs would close the loop of control.

APPROVED: *Bene Malin*
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 9/26/95

DISTRIBUTION

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Attachment A

Surveillance Activity Notes

(Surveillance Report No.95-08)

Notebooks reviewed during the surveillance included:

GC-07 --- CNWRA 037

GC-04 --- CNWRA 020

GC-081 ---CNWRA 081

GC-09 --- CNWRA 060

Equipment Reviewed

Item	Serial No.	I.D. No.	Cal. Date	Cal. Due
Mettler Balance	01237	1439	8 May 95	8 Nov. 95
Delta Range	120461	1440	2 Apr.95	2 Oct. 95

Reports Reviewed

"Sorption Modeling For High Level Waste Performance Assessment NRC High Level Radioactive Waste Research At CNWRA" January - June 1995

"Uraniun (6+) Sorption On Montmorillonite: Experimental And Surface Complexation Modeling Study" August 29,1995