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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-150

REPORT NO.: 96-03

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SURVEILLANCE SCOPE: High-Level Waste Near-field Processes Research

REFERENCE DOCUMENTS: Program Manager's Periodic Report for Period 3, FY96, HLW Operations Plans, Quality Requirements Application Matrices

STARTING DATE: January 22, 1996

ENDING DATE: January 22, 1996

QA REPRESENTATIVE: R.D. Brient *RB*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: W. Murphy, J. Prikryl, J. Apps (Consultant)

SATISFACTORY FINDINGS:

The PMPR for FY 96, Period 3 was reviewed to identify current activities for surveillance subjects. The following are also being incorporated into the semi-annual research report currently in preparation. This project is being closed out with the revised Operations Plans.

1. Topical Report on Hypotheses for Near-field Processes and Variations - This report is a literature review, and is in preparation. Scientific notebook controls do not apply. Qualifications were verified for W. Murphy and J. Apps.

2. Chemical analyses of Synthetic Uranophane - Analyses were performed by SwRI Division 01. NIST rock standard materials were used to calibrate the analysis equipment. The report from Division 01, which included a description of the methods employed, was included in Scientific Notebook 144. Discrepancies were identified between the analytical results and theoretical results, indicating uncertainties in the synthesis of the uranophane or in the analysis. Calibration status of laboratory equipment was verified (Mettler balances #101137 & 120461, Autoclave controllers #0690A). several expired reagents were identified and removed from stock. Personnel qualifications were verified for J. Prikryl.

UNSATISFACTORY FINDINGS: none

NONCONFORMANCE REPORT NO.: none

ATTACHMENTS: none

RECOMMENDATIONS/ACTIONS: Mercury thermometers may suffer mercury separation if stored horizontally, so should be stored vertically. Synthetic uranophane samples should be entered into the sample tracking log.

APPROVED: *[Signature]*

CNWRA DIRECTOR OF QUALITY ASSURANCE

DATE: 1/24/96

DISTRIBUTION:

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ORIGINATOR

PRINCIPAL INVESTIGATOR - W. Murphy

ELEMENT MANAGER - E. Percy

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