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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO: 20- 1402-159

REPORT NO: 99-08

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**SURVEILLANCE SCOPE:** Surveillance activities on Critical Calibration Equipment

**REFERENCE DOCUMENTS:** FY99 Quality Assurance Application Matrix; CNWRA HLW Operations Plans, Rev 12 Chg 1; QAP-004 Surveillance Control Procedure

**STARTING DATE:** March 4, 1999

**ENDING DATE:** March 5, 1999

**QA REPRESENTATIVE:** Mark R. Ehnstrom

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** D. Dunn and M. Hill from the CNWRA and W. Hill and M. Romero from the SwRI Calibration Facility

**SATISFACTORY FINDING:**

Surveillance activities were performed on critical measuring and test equipment currently controlled by CNWRA staff. A list of critical measuring equipment issued to CNWRA staff was obtained from the SwRI Calibration Facility. This list identifies the test equipment, serial number, the calibration date and due date, and who is responsible for the piece of equipment. The SwRI list identifies all the equipment issued to these CNWRA personnel whether or not the equipment is currently required to be calibrated. In other words the list also shows equipment which is inactive and identifies the dates when equipment is no longer within its calibration cycle. During the surveillance, approximately 61% of the equipment currently listed as being active was reviewed. The surveillance found that as items come due for recalibration/certification, the equipment is being removed from work areas. "Out of Calibration" tags were observed. Calibration tags were found on the active pieces of equipment observed during the surveillance.

**UNSATISFACTORY FINDINGS:** None

**NONCONFORMANCE REPORT NO:** N/A

**ATTACHMENTS:** None

**RECOMMENDATIONS/ACTIONS:** During the surveillance it was observed that calibration tags for thermometers are placed on its plastic container. As the thermometers are used they are placed in stands and the containers are placed in a drawer in the laboratory. When personnel use a thermometer there is no way to verify the calibration status of the thermometer. It is recommended that the calibration tag, supplied by the Institute Calibration Facility, be placed at the far end of the thermometer, outside the graduated scale.

Discussions should also take place between CNWRA and Institute Calibration Personnel on the calibration process for the Solartron Impedance/Gain Phase Analyzer and the Electrochemical Interface.

A final recommendation is for CNWRA personnel assigned critical equipment to generate a list identifying equipment which no longer needs to be inventoried as active equipment.

**APPROVED:**   
CENTER DIRECTOR OF QUALITY ASSURANCE

**DATE:** 3/5/99

**DISTRIBUTION:**

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