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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5708-661

REPORT NO.: 97-19

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**SURVEILLANCE SCOPE:** Surveillance Activities on Thermal Effects on Flow Technical Assistance

**REFERENCE DOCUMENTS:** Quality Application Requirements Matrices, Current Program Managers Periodic Report, QAP-004 Surveillance Control

**STARTING DATE:** November 20, 1997

**ENDING DATE:** November 26, 1997

**QA REPRESENTATIVE:** Mark R. Ehnstrom

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** Ron Green, Sonny Leppala, and Melissa Hill

**SATISFACTORY FINDINGS:**

**Preliminary Reviews:**

Preliminary surveillance activities were performed in reports issued on the Thermal Effects on Flow Technical Assistance. A total of four reports were reviewed to assure the requirements of QAP-002, "Review Of CNWRA Documents, Reports and Papers" were followed. No discrepancies were noted.

**Surveillance Interviews:**

The second part of the surveillance activity was the interviews with the Principal Investigator, Ron Green. During discussions it was noted that software program MULTIFLO was being used. This program is being controlled in accordance with appropriate software controls identified in TOP-018. The discussion also identified the use of critical equipment used in obtaining test data. During the surveillance of the laboratory facility in Building 51, several pieces of test equipment were identified. Calibration tags were observed on the equipment and corresponding calibration documentation was reviewed. Test equipment was all within current calibration intervals. The SwRI calibration laboratory had provided the certification services. This calibration laboratory had been previously approved for services by CNWRA audit activity. Scientific Notebooks nos. 212 and 222 were reviewed for compliance to QAP-001, "Scientific Notebook Control". The notebooks reviewed were being maintained in a satisfactory manner. Initial and in-process entries were being documented in accordance with paragraphs 3.4 and 3.5. Corrections to entries were being performed in accordance with paragraph 3.6.3. Personnel qualifications and QA indoctrination documents were reviewed for persons contacted during the course of this surveillance.

**UNSATISFACTORY FINDINGS:** None  
**NONCONFORMANCE REPORT NO.:** N/A

**ATTACHMENTS:** N/A

**RECOMMENDATIONS/ACTIONS:** None

APPROVED:

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE:

12/3/97

**DISTRIBUTION:**

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