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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-3704-034

REPORT NO.: 90-016

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SURVEILLANCE SCOPE:

Pseudo-static shear tests of specimen SCM 29.2.3/29.2.4

REFERENCE DOCUMENTS:

N/A

STARTING DATE: 11/6/90

ENDING DATE: 11/6/90

QA REPRESENTATIVE:

R. D. Brient *RDB*

PERSONS CONDUCTING TEST / EXAM / ACTIVITY:

A. Pickens, Div. 04
M. Ahola, Div. 20

SATISFACTORY FINDINGS:

1. Calibration of displacement transducers was verified through review of Scientific Notebook entries. Steel rules, a Venier height gage (.001"), and a calibrated drum micrometer were used.
2. Data acquisition accuracy was confirmed by injecting (calibrated) signals of approximately 10% and 90% (1V and 9V respectively), and verifying that the computer readout was within tolerance.
3. Witnessed five cycles of testing at normal load of 1 MPa. Results were acquired through a computer system with additional information recorded in the Scientific Notebook.

UNSATISFACTORY FINDINGS:

Load cell calibrations have not been performed since approximately one year ago. The delay is due to no standard being available from SwRI Div. 06.

NONCONFORMANCE REPORT NO.:

N/A

ATTACHMENTS:

RECOMMENDATIONS / ACTIONS

Load cells must be calibrated before the next sample is tested. Alternative sources of a calibration standard are available from qualified commercial sources. In the future, no test shall be allowed if calibrations before use are not performed within the specified time limits.

APPROVED: *[Signature]*

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 11/13/90

DISTRIBUTION:

- ORIGINAL - CENTER QA DIRECTOR
- ORIGINATOR
- PRINCIPAL ENGINEER - M. Ahola
- ELEMENT MANAGER *A. Chowdhury*
- D. K. [Signature]* - Div. 04

A. Whiting / W. Patrick