



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-059

REPORT NO.: 93-04

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SURVEILLANCE SCOPE: Observation of Load Cell calibration for Seismic Rock Mechanics Research, Task 9

REFERENCE DOCUMENTS: ASTM Standard Method E-4

STARTING DATE: 4/12/93

ENDING DATE: 4/14/93

QA REPRESENTATIVE: R. Brient

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: F. Campbell, SwRI Division 06 Test Technician

## SATISFACTORY FINDINGS:

1. Three 25,000 lb. load cells, Interface Model 1220-AJ, serial numbers 48940, 48963, and 48924, were calibrated according to ASTM Standard Method E-4 in compression at eight points from 0 to approx. 25,000 lbs.
2. One 75,000 lb. load cell, Sensotec Model 41/576-02, serial number 318175, was calibrated in both tension and compression at eight points from 0 to approx. 75,000 lbs.
3. The following calibration standards were used: Morehouse Proving Ring, 100,000 lb. capacity, serial number 811, calibrated by qualified vendor National Standards Testing Laboratory 1/8/93, due 1/8/95 (traceable to NIST); HP Multimeter model 3468B, serial number 2231A04691, calibrated 9/9/92, due 9/9/93.
4. Linear regression and error of the calibration data were calculated. Error for the 25,000 lb. load cells was less than .05%; for the 75,000 lb. load cell, less than .1% except at the lowest load.
5. No deviations from the method or applicable QA requirements were identified.

UNSATISFACTORY FINDINGS: none

NONCONFORMANCE REPORT NO.: N/A

ATTACHMENTS: none

## RECOMMENDATIONS/ACTIONS

none

APPROVED: \_\_\_\_\_

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: \_\_\_\_\_

4/14/93

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