

RECEIVED

10/2/90

JUN 11 1990

C N W R A



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: Mechanical Testing of Tuff REPORT NO.: 90-005 PAGE 1 OF 3

SURVEILLANCE SCOPE: 1. See Audit Checklist Attached
2. Appendix A.8, QA Program, Rock Sample Preparation Procedures

REFERENCE DOCUMENTS:
QA Program for Mechanical Characterization of Tuff and Supporting Documents

STARTING DATE: May 24, 1990 ENDING DATE: June 7, 1990

QA REPRESENTATIVE: Dr. James G. McCray *James G. McCray*

PERSONS CONDUCTING TEST / EXAM / ACTIVITY:
1. Bob Armstrong and David Rowney - May 24, 1990
2. Farid Abdul - Latis - June 7, 1990

SATISFACTORY FINDINGS:
1. The attached QA/OC Checklist describes the administrative surveillance of the project. There were no major faults - primarily easily corrected problems as noted.
2. The laboratory sample preparation of which I observed the first samples was being conducted as prescribed in the QA Plan and Procedures.

UNSATISFACTORY FINDINGS: None. All negative checklist answers were due to the preliminary state of the activities, i.e., some activities have not yet been completed. *Rad, 6/12/90*

NONCONFORMANCE REPORT NO.: *n/a*

ATTACHMENTS: QA/OC Audit Checklist 6/7/90

RECOMMENDATIONS / ACTIONS:
I am concerned that there were no log books or records on the taking of the field samples. The group that took the samples may have this information. The samples were marked and can be tied to specific holes. *[Note: the sampling was done under another task which included appropriate logs Rad 6/12/90]*

APPROVED: *[Signature]*
CENTER DIRECTOR OF QUALITY ASSURANCE
DATE: 6/12/90

DISTRIBUTION:
ORIGINAL - CENTER QA DIRECTOR
ORIGINATOR
PRINCIPAL ENGINEER - *S. HSUNG*
ELEMENT MANAGER *A. Chowdhury*
J. DAEMEN - UOFA, J. McCray - UoFA

11/3/60

QA/QC Audit Checklist

1. Title of Project
Mechanical Characterization of Tuff
2. Principal Investigator (PI)
Dr. Jaak Daemen
3. Is there a QA plan? Yes No (Circle one)
4. Are responsibilities clear in the plan? Yes No
5. Are participating personnel qualifications identified?
 Yes No
6. Are the mission and tasks of the project clear? Yes No
7. Design Control
 - a. Have the Project Design Work Plans been documented prior to work and in the QA files? Yes No
 - b. Have all changes been documented and signed off by the PI? Yes No All changes approved by PI but no formal sign-off.
 - c. Is there a record of periodic checks or inspections to confirm the activity performance is in compliance with approved procedures? Yes No Inspections have been done but not recorded by the management.
 - d. Is there a record (initial and date) of a data sheet review by the PI or his designee to assure the integrity of the data? Yes No How often? Project just starting no data as yet. Plan to do it.
8. Procedures
 - a. Are there detailed written procedures for laboratory sample preparation? Yes No Sample testing?
 Yes No
 - b. Are there written procedures on laboratory equipment calibration, use and maintenance? Yes No
Not implemented as yet
 - c. Are there written procedures for experimental results records? Yes No
 - d. Are laboratory procedures controlled by issue date, revision number and containing preparer's and reviewers signature? Yes No
Need preparer's and reviewers signatures.
 - e. Are there log books maintained by laboratory personnel which contain all pertinent laboratory data pertaining to the experiment and testing? Yes No
 - f. Have all field to laboratory sample transfers been accompanied with a field sample log identifying samples source to laboratory? Yes No
No log books on samples brought to laboratory

12/2/6

- g. Have all field samples been marked and identified as to date, sample number, sample location depth of sample and name of sampler? Yes No No information on depth, date of sampling and name of sampler.
- h. Are samples properly stored to prevent sample disturbance? Yes No
- i. Have the disposition of the analyzed samples been recorded in the laboratory files? Yes No
But not completed any samples.
- j. Was the QA Plan followed in the testing of the samples? Yes No

9. Test Equipment/Calibration and Maintenance

- a. Does the list of equipment requiring calibration have for each piece an ID number with a date of last calibration and due date for recalibration? Yes No Calibration not complete
- b. Are the calibration standards traceable to the national standards? Yes No
- c. On required daily calibrations is there verification of the standard? Yes No
- d. Are qualification of calibrations recorded in log books? Yes No This will be done when the experiments begin.

10. Document Control

- a. Does the QA Officer have a historic file of procedures? Yes No No but will set up file
- b. Is there a controlled distribution on all procedures with a transmittal log of this distribution? Yes No
When procedures change record of transmittal will be made.
- c. Do all forms have an identifying title and number, initials of entrant, date of entry and sequential page numbers? Yes No Will establish form numbers.
- d. Log Book Control
 - (1) Are log books clearly identified by an assigned number, experiment or analysis name and the log book assignee? Yes No Log books established by sample.
 - (2) Is the QA Officer controlling and securing the log books? Yes No

11. Is there a record of laboratory performance compliance verification inspections? Yes No There will be.