1. SCOPE

1.1. Description of Test

This method describes the dry density and moisture content of cement treated materials in place by gamma and neutron radiation using backscatter or direct transmission modes.

2. APPARATUS AND MATERIALS

Refer to Test Method 205-7.

3. PROCEDURE

3.1. Test Procedure

Refer to Test Method STP 205-7.

3.1.1. Safety and Care of Gauge

Refer to Test Method STP 205-7.

3.1.2. Film Badge Uses and Precautions

Refer to Test Method STP 205-7.

3.1.3. Characteristics of Nuclear Gauge

Refer to Test Method STP 205-7.

3.1.4. Statistical Standard Count

Refer to Test Method STP 205-7.

3.1.5. Site Preparation and Test Procedure

Refer to Test Method STP 205-7.
3.1.6. Periodic Maintenance and Charging of Batteries

Refer to Test Method STP 205-7.

4. RESULTS AND CALCULATIONS

4.1. Reporting Results

Report all data on form MR-14 and MR-85.

5. ADDED INFORMATION

5.1. References

ASTM D 2950

5.2. General

If density is taken immediately after compaction and before hydration has totally occurred either the backscatter or 100 mm direct transmission mode may be used.

For sandy mixes very little preparation will be required other than levelling of the gauge.

For coarse textured mixes a fine sand may be required for gauge levelling.

Test sites should be selected at random and should be altered to cover left, right and centre line areas of the roadway.

It is most important that the correct proctor is used for calculating percent compaction for field density. A new proctor should be taken for any significant change in cement treated mix.
APPROVAL SHEET

New __ Revision X __ Date of Previous Document 85-04-01
Effective Date: ___ - ___

Description of Revision (Reason for Revision):
Form of test procedure updated.

Review/Implementation Process:
Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:
Nil

Follow Up/Training Required:
Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

Prepared and Recommended by D. MacLeod ______________ 93-12-15
Quality Control Engineer Date

Approval Recommended by R.A. Widger ________________ - -
Senior Materials Engineer Date

Approval Recommended by A.R. Gerbrandt ________________ - -
Dir., Technical Standards & Policies Br. Date

Approved by D.G. Metz ________________ - -
Assistant Deputy Minister, Infrastructure Date

Electronic File Updated - -
Update Mailed - -