EQUIPMENT CALIBRATION, STANDARDIZATION OR CHECK RECORD

Revised 08/03, 3/11, 5/11

PROCEDURE #76

Date: _____ Checked by: _____

Equipment: UNCOMPACTED VOID CONTENT APPARATUS T 304, SD 217

Serial number: _____

Previous check date: _____ Next due: _____ Frequency: 12 Months Max

Inspection equipment and serial number:

Glass Plate 2.4 in x 2.4 in (60 mm x 60 mm) (approx.) Scale readable to 0.1 g #:

6" Caliper #: 77^{o}F or 25^{o}C Thermometer with 0.1 readings #:

500 ml of distilled water

Action recommended: Repair _____ Replace _____ None _____ Other _____.

MEASURE
(Record scale weights to nearest 0.1 gram)

1. Diameter 39 mm (approx.) _____
2. Inside height 86 mm (approx.) _____
3. Weight of measure and glass plate _____
4. Weight of measure glass plate and water _____
5. Weight of water (4. – 3.) _____
6. Temp of water 18 - 24^{o}C or 64.4 – 75.2^{o}F _____
7. Density of water from table below at recorded temperature in 6. _____
8. Nominal volume 100 cm^3 (1000 * 5./7.) _____
9. Standardization Current? _____

SPATULA
1. 100 mm (4") long (approx.): _____
2. 20 mm (approx.) _____
3. End cut at right angle: _____

Funnel Stand:
Firmly held in position _____

FUNNEL
1. Funnel orifice 12.7 ± 0.6 mm _____
2. Distance from orifice to top of measure 115 ± 2 mm _____
3. Minimum volume 200 cm^3 _____

Where: V = 1000 M/D volume of cylinder in cm^3
M = net mass of water (wgt. of measure, glass plate & water – wgt. of measure & glass plate)
D = Density of water at test temp

Temperature		Density of Water	
^{0}F	^{0}C	lb/ft^2	kg/m^3
60	15.6	62.366	999.01
65	18.3	62.336	998.54
70	21.1	62.301	997.97
75	23.9	62.261	997.32
80	26.7	62.216	996.59
85	29.4	62.166	995.83