

United States Department of Commerce
National Institute of Standards and Technology

~ **Certificate of Measurement Traceability** ~
for

North Carolina

**a participant in the NIST Weights and Measures
Measurement Assurance Program for the Year(s)**

2008 - 2009

**The State standards are traceable to NIST and the laboratory has
demonstrated* measurement proficiency through training and
interlaboratory comparisons compliant to NIST HB 143:2007
(ISO/IEC 17025:2005).**



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for the National Institute of Standards and Technology

Chief, Weights and Measures Division
Title

January 1, 2009 to December 31, 2009
Effective Date



***Demonstrated
Areas of Proficiency**

Mass

Echelon I 30 kg - 1 mg
 50 lb - 0.001 lb

Echelon II 250 kg - 1 mg
 2500 lb - 0.001 lb
 8 oz - 0.03125 oz

Echelon III 500 kg - 1 mg
 6000 lb - 0.001 lb
 8 oz - 0.03125 oz

Weight Carts ≤ 6000 lb

Lottery Balls

Volume

Gravimetric, I
 50 L - 5 L
 100 gal - 1 gill

Small Volume Prover (SVP)
 30 gal - 15 gal

Volume transfer, II
 20 L, 7500 gal - 1 gal

Volume transfer, II (Field)
 5 gal - 1 gal

Length

Steel tapes
 30 m - 0.1 m, 112 ft - 1 ft

Rigid rules
 1 m - 1 mm, 60 in - 1 in

Lottery Balls

Temperature

Echelon III, IV

LIG - 30 °C - 230 °C, -22 °F - 446 °F

PRT - 30 °C - 230 °C, -22 °F - 446 °F

Grain Moisture

13 % - 23 %