

United States Department of Commerce
National Institute of Standards and Technology

~ Certificate of Measurement Traceability ~

*Demonstrated Areas of Proficiency	
Mass	
Echelon I	30 kg - 1 mg 50 lb - 0.001 lb
Echelon II	250 kg - 1 mg 2,500 lb - 0.001 lb 8 oz - 0.03125 oz
Echelon III	500 kg - 1 mg 6,000 lb - 0.001 lb 8 oz - 0.03125 oz
Weight Carts	≤ 6,000 lb
Lottery Balls	
Volume	
Gravimetric, I	
20 L - 100 mL	
100 gal - 1 gill	
Small Volume Prover (SVP)	
30 gal - 15 gal	
Volume transfer, II	
20 L	
1,500 gal - 1 gal	
500 gal - 25 gal LPG	
Volume transfer, II (Field)	
5 gal - 1 gal	
Length	
Steel tapes	
30 m - 0.1 m, 112 ft - 1 ft	
Rigid rules	
1 m - 10 mm, 72 in - 1 in	
Lottery Balls	
Temperature	
Echelon III, IV	
LIG 230 °C - -30 °C, 446 °F - -22 °F	
PRT 230 °C - -30 °C, 446 °F - -22 °F	
Grain Moisture	
13 % - 23 %	

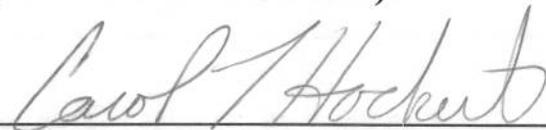
for

North Carolina

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

2011

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).



Carol T. Hockert,
for the National Institute of Standards and Technology

Chief, Weights and Measures Division
Title

February 1, 2011 to December 31, 2011

Revised Scope Effective Date

