

# United States Department of Commerce

## National Institute of Standards and Technology

### Certificate of Metrological Traceability For:

# North Carolina

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

#### Scope

**Mass Echelon I**

30 kg to 1 mg  
50 lb to 0.001 lb

**Mass Echelon II**

250 kg to 1 mg  
2500 lb to 0.001 lb

**Mass Echelon III**

1000 kg to 1 mg  
2500 lb to 0.001 lb  
8 oz to 0.03125 oz

**Weight Carts**

6000 lb to 3000 lb

**Lottery Balls**

2.65 g

**Volume Gravimetric, I**

400 L to 100 mL  
100 gal to 1 gill  
10 ft<sup>3</sup> to 0.5 ft<sup>3</sup>

**Volume Gravimetric, SVP**

30 gal to 5 gal

**Volume Transfer, II**

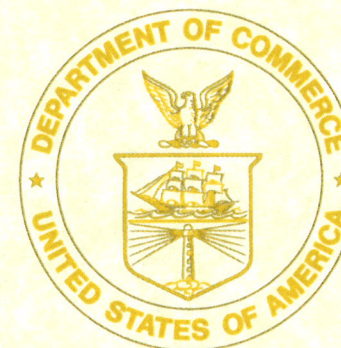
650 L to 20 L  
2000 gal to 5 gal  
500 gal to 25 gal LPG

**Length**

Lottery Balls  
1.4 in to 1.5 in

**Thermometry**

230 °C to -30 °C  
446 °F to -22 °F



2017

*Georgia L. Harris*

Georgia L. Harris, Acting Chief  
NIST Office of Weights and Measures

Effective Dates: 2017-01-01 to 2017-12-31

Amended: 2016-12-31  
Scope modified for 2017.

NOTE: This Scope does not cover  
calibrations at remote locations.