WORKSHEET C-1W

AIR METERS (PRESSURE TYPE)

REQUIREMENTS: Standardize			
Standardization Frequency	**Last Standardization**	**Date of Standardization**	**Next Standardization**
3 Months			

GAGELIST ID:_____

ASSET ID:_____

SERIAL NUMBER:_____

MODEL NUMBER/MANUFACTURER:_____

STANDARDIZATION REFERENCE:_____PROCEDURE C-1; ASTM/AASHTO C231/T152_____

TRACEABLE MEASURING AND TEST EQUIPMENT USED FOR STANDARDIZATION:

Equipment Name	Serial or ID Number
Balance (0.1 lb)	
Thermometer (0.5 °C)	
24" Steel Ruler (0.01")	
1/4" Glass Plate	
Caliper (0.001")	

STANDARDIZATION TABLE:

1. ***Dimensions of Bowl:*** ***Measurement*** ***Tolerance***
   - a. Inside Diameter, in.: _____
   - b. Inside Height, in.: _____
   - c. Inside Diameter / Height Ratio, in.: _____ ≥ 0.75 to 1.25 x height
   - d. Capacity of Bowl, ft³: $\{\pi \times (diameter \div 2)^2\} \times height$ _____ ≥ 0.20 ft³
2. Appendix A1.2 – ***Calibration of the Calibration Vessel, w:***
   - a. Weight of calibration vessel, g: _____
   - b. Weight of calibration vessel and water, g: _____
   - c. Weight of water, *w*, required to fill the calibration vessel, g: _____
3. Appendix A1.3 – ***Calibration of the Measuring Bowl:***
   - a. Weight of the measuring bowl, g.: _____ ≥ 0.75 to 1.25 x height
   - b. Weight of the measuring bowl and glass plate, g: _____
   - c. Weight of the measuring bowl, glass plate and water, g: _____
   - d. Weight of water, *W*, required to fill the measuring bowl, g: _____
   - e. Weight of water in pounds ($W \div 453.59$), lbs: _____
   - f. Temperature of water, °C: _____
   - g. Unit weight of water, pcf: _____
   - h. Volume of the measuring bowl, ft³ ($W \div unit\ weight\ of\ water$): _____
4. Appendix A1.5.2 and A19 – ***Confirming/Adjusting Initial Pressure:*** _____ Reading for 0.0 %
5. Appendix A1.4 – ***Effective Volume of the Calibration Vessel, R:***
   - a. $R = w \div W$ _____ ± 0.1 %
6. Appendix A1.6 – ***Calibration Reading, K:***

Weight of Water Withdrawn, g	Theoretical Gauge Reading, % A	Actual Gauge Reading, % B	Deviation Between (A) & (B) must be within 0.1% C = (B - A) ÷ A

   - a. A1.6.2 – For Type B, $K = R$ IP = _____
7. Appendix A1.9 – ***Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter:***

RESULTS:

Equipment Status Upon Receipt: Conforms_____Nonconforming*_____

* Who Was Notified?_____Corrective Action_____

Equipment Status After Adjustment: Conforms_____Nonconforming_____

Standardization Performed By:_____Standardization Checked By:_____