

## **EQUIPMENT VERIFICATION PROCEDURE**

### ASTM HYDROMETER (AASHTO T88)

#### I. EQUIPMENT

- A. Ruler or Calipers, approx. 0.3 m in length, readable to 1 mm
- B. Calipers, approx. 0.15 m in length, readable to 0.01 mm

#### II. PROCEDURE

- A. Verify ASTM Hydrometer type and Identifying Number, and indicate on the worksheet.
- B. Verify overall length of hydrometer using ruler or larger calipers, and record to the nearest 1 mm.
- C. Verify the diameter of the stem near its middle, and record the reading(s) to the nearest 0.01 mm.
- D. Verify the diameter of the body of the hydrometer near its middle, and record the reading(s) to the nearest 0.01 mm.
- E. Verify the standard temperature listed on the scale and record.
- F. Verify the length of nominal scale and Scale error and record.
- G. Verify the value of individual divisions, intermediate lines, and Main (numbered) lines, and record.
- H. Sign and date worksheet.

**STATE OF LOUISIANA**  
**DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**

<b>Specifications and Critical Dimensions of Hydrometer Verification Procedure DOTD A25</b>			
Length of Nominal Scale	mm	Scale Error	0
Total Length	mm	Standard Temperature	°F
Body Diameter	mm	Divisions	
Stem Diameter	mm	Intermediate Lines	
Body Length	mm	Main Numbered Lines	
Middle Length	mm	G/L Length Nominal Scale	mm
Type ASTM 151H		Type ASTM 152H	

Recommended Action:    Repair \_\_\_\_\_    Replace \_\_\_\_\_    None \_\_\_\_\_

Comments:

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Previous Verification Date:

Date of Verification:

Next Verification Date:

Mfg/Distributor:

Verified By:

Verification Equipment Used:

Verification Frequency: 12 Months