Standard Operating Procedure: SOP-BALL-4

Total Weight of a Bowling Ball

Rev	<u>Date</u>	Staff Member	<u>Purpose</u>
3	11/13/19	A. Stanton	Added calibration/verification procedure
2	1/14/14	T. Frenzel	Rewrite for clarification
1	02/12/09	N. Mours	rewrite for clarification
Origination date: 10/29/07		Originator: T. Robben	



Purpose: To determine the total weight of a bowling ball.

Materials:

- Bowling ball to be tested
- Digital scale with bowling ball holder (ball cup)

Procedure:

- 1. Supply power to the digital scale.
- 2. Place ball cup on the scale and zero the balance.
- 3. Gently place the bowling ball on the scale.
- 4. Read the total weight of the bowling ball in pounds from the digital display on the scale.

If ball results indicate the weight of the ball is out of spec:

- 1. Verify that the scale is operating correctly by placing 3 known 5 Lb. weights on the scale measuring a total of 5 pounds, 10 pounds and 15 pounds. The results should fall within ±.002 pounds.
- 2. If the results are within the ± 002 Lb. tolerance, the scale and data are good.
- 3. If scale fails to match the known weight values, recalibrate using the instructions in the calibration section below.

USBC Calibration

- 1. The scale must be powered OFF. Press and hold [MODE] and []. Release both keys and wait for the display to read "CALE".
- 2. Place a 5 kg weight on the platform. Wait a few seconds, then press [TARE]. Calibration is complete when the display reads "PASS". Now you can remove the weights.
- 3. Turn the scale OFF then turn it back ON and check some weight readings (5 kg). If calibration is still incorrect, repeat calibration.

Yearly Calibration:

This scale is to be professionally calibrated every 6 months by a technician from Mettler Toledo.

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