

**Southern Weights and Measures Association
62nd Annual Meeting
October 21-24, 2007**

**Specifications and Tolerances Committee
Final Report
(Addendum to Tentative Report)**

Part 1 – New SWMA Items

SWMA Item #1

Modify Handbook 44, Section 5.58 Multiple Dimension Measuring Devices, paragraph S.1.5.2.

Status: No Change.

SWMA S&T Committee Recommendation: The SWMA recommends the item move forward to the National S&T Committee as a voting item on their agenda.

SWMA Action:

SWMA Item #2

Modify Handbook 44, Section 5.58 Multiple Dimension Measuring Devices, section A. Applications

Status: No change.

SWMA S&T Committee Recommendation: The SWMA recommends the item move forward to the National S&T Committee as a voting item on their agenda.

SWMA Item #3

Modify Handbook 44, Section 5.58 Multiple Dimension Measuring Devices, paragraph N1.4.

Status: No change.

SWMA S&T Committee Recommendation: The SWMA recommends the item move forward to the National S&T Committee as a voting item on their agenda.

SWMA Action:

SWMA Item #4

Modify Handbook 44, Section 5.58 Multiple Dimension Measuring Devices, paragraph N.1.2.

Status: No change.

SWMA S&T Committee Recommendation: The SWMA recommends the item move forward to the National S&T Committee as a voting item on their agenda.

SWMA Action:

SWMA Item #5

Amend Belt Conveyor Scales Code, Paragraph N.2.3.

Status: No change.

SWMA S&T Committee Recommendation: No discussion.

SWMA Action:

SWMA Item #6

Amend Belt Conveyor Scale Systems Code 2.21. Paragraph N.3.1.4.

Status: No change.

SWMA S&T Committee Recommendation: No discussion.

SWMA Action:

SWMA Item #7

Clarification of Scales Code paragraph S.2.4 Level-Indicating Means

Status: **S.2.4. Level-Indicating Means.** - Except for portable wheel-load weighers and portable axle-load scales, a portable scale shall be equipped with level-indicating means if its weighing performance is changed by an amount greater than the appropriate acceptance tolerance when it is moved from a level position and rebalanced in a position that is out of level in any upright direction by a 5 % slope/grade (approximately **slightly less than** three degrees). The level-indicating means shall be readable without removing any scale parts requiring a tool.

[This requirement is non-retroactive as of January 1, 1986, for prescription, jewelers', and dairy-product-test scales and scales marked I and II]

[**Note:** Portable wheel-load weighers and portable axle-load scales shall be accurate when placed out of level up to and including a 5 % slope/grade (~~approximately~~ **slightly less than** three degrees).]
(Amended 1991)

S.2.4.1. Vehicle On-Board Weighing Systems. - A vehicle on-board weighing system shall operate within tolerance when the weighing system is out of level up to three degrees or a 5 % slope/grade. If the accuracy of the system is affected by out-of-level conditions normal to the use of the device, the system shall be equipped with an out-of-level sensor that inhibits the weighing operation when the system is out of level to the extent that the accuracy limits are exceeded.
(Added 1992)

SWMA S&T Committee Recommendation: The SWMA heard support for the item from one manufacturer. Another manufacture recommended removing the word approximate from the parenthetical in the forth line of S.2.4. The SWMA S&T Committee recommends modifying S.2.4. as shown above and submitting it to the NCWM S&T Committee as a voting item.

SWMA Action:

SWMA Item #8

Add User Requirement Subparagraphs 2.5.2.1. and 2.5.2.2. to the Vehicle Tank Meter Code

Status: **UR.2.5.2.1. Period of Use.** - When fuel is bought or sold on an automatic or non-automatic temperature-compensation basis, it shall be bought or sold using this method basis over at least a consecutive 12-month period, unless otherwise agreed to by both the buyer and seller in writing.

UR.2.5.2.2 Condition of Use. - At a business location which offers products for sale on the basis of a temperature compensated volume, all measuring devices and all products offered for sale, shall dispense on the basis of temperature compensated volume.

SWMA S&T Committee Recommendation: The SWMA heard a comment that the word method in the second line of UR.2.5.2.1. should be changed to basis to make it clear that it applies to the condition of sale not the equipment used. The Committee agreed, modified the proposal as shown above and recommends forwarding it the NCWM S&T Committee as a voting item.

SWMA Action:

SWMA Item #9

- A) Eliminate the repeatability requirements of Handbook 44, Section 3.36 (N.4.1.1. and T.1.1.) for utility type meters; or
- B) Change the test draft quantities of Tables N.4.1. and N.4.2. of Handbook 44, Section 3.36, according to the table below, in order to meet the repeatability requirements as given in N.4.1.1. and T.1.1. for utility type meters.

Status:

SWMA S&T Committee Recommendation: The SWMA heard comments from Badger Meter, Inc. that several water meter manufacturers are having difficulty meeting Handbook 44 requirements for repeatability that were added in 2002. Additionally part of the problem is the determination of what constitutes the smallest unit of measure for various sizes of their utility meters. Badger Meter is requesting a change to the test draft requirements and/or smallest unit of measure requirements to be more appropriate for the meters they and others manufacture. The Committee recommends that this item be forwarded to the NCWM S&T Committee as an information item.

SWMA Action:

SWMA Item #10

Clarify S.1.1 of Handbook 44, Section 3.36., for the "value of the smallest unit" of indicated delivery.

Status:

SWMA S&T Committee Recommendation: The SWMA heard comments from Badger Meter, Inc. that several water meter manufacturers are having difficulty meeting Handbook 44 requirements for repeatability that were added in 2002. Additionally part of the problem is the determination of what constitutes the smallest unit of measure for various sizes of their utility meters. Badger Meter is requesting a change to the test draft requirements and/or smallest unit of measure requirements to be more appropriate for the meters they and others manufacture. The Committee recommends that this item be forwarded to the NCWM S&T Committee as an information item.

SWMA Action:

SWMA Item #11

Amend General Code paragraph G-S.8.

*Status: G-S.8. Provision for Sealing Electronic Adjustable Components. - A device shall be designed with provision(s) for applying a security seal that must be broken, or for using other approved means of providing security (e.g., data change audit trail available at the time of inspection), before any change that detrimentally affects the metrological integrity of the device can be made to any electronic mechanism.
[Nonretroactive as of January 1, 1990]*

A device may be fitted with an automatic or a semi-automatic calibration mechanism. This mechanism shall be incorporated inside the device. After sealing, neither the mechanism nor the calibration process shall facilitate fraud.
(Added 1985) (Amended 1989 and 1990)

~~*For devices capable of being configured for both commercial and non-commercial applications:~~

- ~~- The application of the physical security seal shall ensure that the access to the set-up mode is disabled, or~~
- ~~- The device shall continuously indicate when access to the set-up mode is not disabled without breaking the security seal during normal weighing or measuring operation clearly indicate that it is in the configuration mode and record such message if capable of printing in this mode, or shall not operate while in this mode, or shall automatically exit of the configuration mode after 60 minutes.~~

~~[*Nonretroactive as of January 1 200X]~~

SWMA S&T Committee Recommendation: The SWMA heard comments that there are other ways that manufactures can incorporate methods other than having an enunciator or other indication that the device is in the calibration mode. The manufactures also believe that any changes to the requirements need to be nonretroactive. The SWMA Committee agreed and recommended the proposal be modified as shown above and forwarded to the NCWM S&T Committee as a XXX item.

SWMA Action:

Part 2 - NCWM Carryover Items

The SWMA S&T Committee received input on the following carryover items.

NCWM Item # 320-3

Status:

SWMA S&T Committee Recommendation: The SWMA heard that the SMA supports this item and the efforts of the tare work group. The SWMA S&T Committee recommends that the NCWM S&T Committee present the item for a vote at the 2008 Annual Meeting.

SWMA Action:

NCWM Item # 321-1

Status: UR.2.2. Conveyor Installation

(n) Belt Alignment. —~~The belt shall be centered on the idlers in the weighing area and shall track in practically the same position whether empty or loaded.~~ The belt shall not extend beyond the edge of ~~the idler~~ any carry side (top) roller in any area of the conveyor. **The belt shall not touch the conveyor structure on the return (bottom) side of the conveyor.**
(Amended 1998 and 2007)

SWMA S&T Committee Recommendation: The SWMA heard that Montana and the WWMA supports the position and alternate proposal from the NW&SA. The Committee recommends that the NCWM S&T Committee present the alternate proposal shown above for a vote at the 2008 NCWM Annual Meeting.

SWMA Action:

NCWM Item # 330-1

Status:

SWMA S&T Committee Recommendation: The SWMA received a comment from an official that a dispenser should not print a statement that the volume of the product has been adjusted to the volume in liters at 15 °C for liters or the volume in gallons at 60 °F for gallons when ATC is a not activated. The official also believes that the allowance for a record of action in proposed S.2.7.4. should be performed automatically by the device. A manufacturer stated that currently the print statement comes from information provided by the inside control console. The SWMA S&T Committee agreed to forward the comments to the NCWM S&T Committee for consideration.

SWMA Action:

NCWM Item # 360-2 Part 1 Item 1

Status:

SWMA S&T Committee Recommendation: A scale manufacturer stated that they could support S.1.4. Indicators, but not UR.2. Installation Requirements. The SWMA S&T Committee agreed to forward the comment to the NCWM S&T Committee for consideration.

SWMA Action:

NCWM Item # 360-2 Part 3 Item 2

Status:

SWMA S&T Committee Recommendation: The SWMA was informed that the National Association of Convenience Stores recognizes that there is a problem with the current price posting and computing capability requirements in Handbook 44 and is currently working on information to provide to the NCWM S&T Committee on this item.

SWMA Action: