Addendum Sheet
Specifications and Tolerances (S&T) Committee Interim Report

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Wisconsin

INTRODUCTION

The S&T Committee (hereinafter referred to as the "committee") submits its Committee Interim Report for consideration by National Conference on Weights and Measures (NCWM). This addendum sheet contains the report items published in *NCWM Publication 16, Committee Reports for the 104th Annual Meeting*. The addendum sheet will address the following items during the Annual Meeting.

Items are grouped according to item status: **(VC) Voting Consent Calendar:** the committee has grouped these items for a single vote; **(V) Voting Item:** the committee is making recommendations requiring a vote by the active members of NCWM; **(I) Informational Item:** the item is under consideration by the committee but not proposed for Voting; **(A) Assigned Item:** the committee has assigned development of the item to a recognized subcommittee or task group within NCWM; **(D) Developing Item:** the committee determined the item has merit; however, the item was returned to the submitter or other designated party for further development before any action can be taken at the national level; **(W) Withdrawn Item:** the item has been removed from consideration by the committee.

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WIM – WEIGH-IN-MOTION SYSTEMS USED FOR VEHICLE ENFORCEMENT SCREENING TENTATIVE CODE 12

WIM-1 D Title of Tentative Code, S.1.7.1. Values to be Recorded., S.4.1. Designation of Accuracy., N.1. Test Procedures, T.2. Tolerance Values for Accuracy ~~Class A~~ Classes., UR.1.1. General, Table 1. Typical Class or Type of Device for Weighing Applications. 13

EVF – ELECTRIC VEHICLE FUELING SYSTEMS..... ERROR! BOOKMARK NOT DEFINED.

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(In order by Reference Key)

GEN – GENERAL CODE

GEN-1 I G-A.1. Commercial and Law-Enforcement Equipment. and G-S.2. Facilitation of Fraud.

No changes. Committee agreed to maintain Information status.

GEN-3 A G-T.5. Tolerances on Tests When Transfer Standards are Used., Appendix D – Definitions: standards, field., ~~transfer standard.~~ and standard, transfer.

No changes. Covered under the NEW Block 1 item.

SCL – SCALES

SCL-1 V S.1.1.1. Digital Indicating Elements. and UR.2.10. Primary Indicating Elements Provided by the User.

Committee considered conversion of 9.5 mm to U.S. measurement in this proposal and agreed that an appropriate equivalent to be listed as 3/8 inch in paragraphs S.1.1.1. and UR.2.10.

To address the issue regarding the status (retroactive or nonretroactive) of paragraph UR.2.10., the Committee agreed to assign an effective date to UR.2.10. that will align with the effective date already assigned to S.1.1.1. in this proposal.

Also, the Committee agreed to amend the proposed UR.2.10. to reflect OWM's recommended amendment as follows:

UR.2.10. Primary Indicating Elements Provided by the User. - Video display terminals and other user provided indicating elements on scales interfaced with a cash register in a POS system shall comply with the minimum height requirements specified in part (c) of paragraph S.1.1.1. Digital Indicating Elements.

[Nonretroactive as of January 1, 2021]

SCL-2 I S.1.8.5. Recorded Representations, Point of Sale Systems

The Committee agreed with the assigned TG's request that the item be given an Informational status. The Committee will determine which of the two options provided by the TG for this proposal will move forward as the item under consideration for the 2020 NCWM Interim Meeting based on anticipated input from the 2019 Fall Regional Weights and Measures Associations. Those options are as follows:

SCL-2 POS Tare Task Group proposed versions of S.1.8.5. and associated footnotes:

Retroactive version:

S.1.8.5. Recorded Representations, Point-of-Sale Systems. – The sales information recorded by cash registers when interfaced with a weighing element shall contain the following information for items weighed at the checkout stand**[1]**:

(a) the net weight;**[1]**

(b) the unit price; **[1] [2]**

(c) the total price; and

(d) the product class or, in a system equipped with price look-up capability, the product name or code number.

In addition, the tare weight shall be recorded by all cash registers interfaced with a weighing element for items weighed at the checkout stand as of January 1, 20XX.
(Amended 20XX)

Footnotes 1 and 2 for either version (retroactive or nonretroactive)

[1]Weight values shall be **adequately defined as gross, tare, and/or net upon any two or more of these values appearing on the receipt. Acceptable abbreviations include, but are not limited to, G & GR (gross), T & TA (tare), and N & NT (net). The unit of weight shall be** identified ~~**by**~~ **as** kilograms, kg, grams, g, ounces, oz, pounds, or lb. ~~***The "#" symbol is not acceptable.***~~
~~***[Nonretroactive as of January 1, 2006]***~~

[2]For devices interfaced with scales indicating in metric units, the unit price may be expressed in price per 100 grams.
(Amended 1995**,** ~~**and**~~ 2005, **and 20XX**)

***The following text can be inserted as replacement to the above once the printing of the tare weight information becomes enforceable:**

[1]Weight values shall be **adequately defined as gross, tare, and/or net. Acceptable abbreviations include, but are not limited to, G & GR (gross), T & TA (tare), and N & NT (net). The unit of weight shall be identified** ~~**by**~~ **as** kilograms, kg, grams, g, ounces, oz, pounds, or lb. ~~***The "#" symbol is not acceptable.***~~
~~***[Nonretroactive as of January 1, 2006]***~~
[2]For devices interfaced with scales indicating in metric units, the unit price may be expressed in price per 100 grams.
(Amended 1995**,** ~~**and**~~ 2005, **and 20XX**)

Nonretroactive version:

S.1.8.5. Recorded Representations, Point-of-Sale Systems. – The sales information recorded by cash registers when interfaced with a weighing element shall contain the following information for items weighed at the checkout stand**[1]**:

(a) the net weight;**[1]**

(b) the unit price; **[1] [2]**

(c) the total price; ~~**and**~~

(d) the product class or, in a system equipped with price look-up capability, the product name or

code number~~.~~**; and**

(e) the tare weight.

[Non-retroactive as of January 1, 20XX]

(Amended 20XX)

Footnotes 1 and 2 for either version (retroactive or nonretroactive)

[1]Weight values shall be **adequately defined as gross, tare, and/or net upon any two or more of these values appearing on the receipt. Acceptable abbreviations include, but are not limited to, G & GR (gross), & TA (tare), and N & NT (net). The unit of weight shall be** identified ~~**by**~~ **as** kilograms, kg, grams, g, ounces, oz, pounds, or lb. ~~***The "#" symbol is not acceptable.***~~
~~***[Nonretroactive as of January 1, 2006]***~~
[2]For devices interfaced with scales indicating in metric units, the unit price may be expressed in price per 100 grams.
(Amended 1995**,** ~~**and**~~ 2005, **and 20XX**)

***The following text can be inserted as replacement to the above once the printing of the tare weight information becomes enforceable:**

[1]Weight values shall be **adequately defined as gross, tare, and/or net. Acceptable abbreviations include, but are not limited to, G & GR (gross), T & TA (tare), and N & NT (net). The unit of weight shall be identified** ~~**by**~~ **as** kilograms, kg, grams, g, ounces, oz, pounds, or lb. ~~***The "#" symbol is not acceptable.***~~
~~***[Nonretroactive as of January 1, 2006]***~~
[2]For devices interfaced with scales indicating in metric units, the unit price may be expressed in price per 100 grams.
(Amended 1995**,** ~~**and**~~ 2005, **and 20XX**)

SCL-3 A Sections Throughout the Code to Include Provisions for Commercial Weigh-in-Motion Vehicle Scale Systems

No changes. The Committee agreed to maintain the Assigned status of this item.

SCL-6 W UR.3.11. Class II Scales

Submitter of the proposal requested this item be withdrawn. The Committee agreed.

SCL-7 I T.N.3.6. Coupled-In-Motion Railroad Weighing Systems., T.N.4.6. Time Dependence (Creep) for Load Cells during Type Evaluation., UR.5. Coupled-in-Motion Railroad Weighing Systems. and Appendix D – Definitions: point-based railroad weighing systems.

Committee agrees to delete changes proposed to TN.3.6. and TN.3.6.1. and TN.4.6. as requested by submitter.

Committee agreed to change status of proposal from Voting to Informational and to seek input from the regional associations on remaining portions of this proposal: UR.5.b. and the proposed definition for point-based railroad weighing systems.

BCS – BELT-CONVEYOR SCALE

BCS-1 VC S.1.3. Value of the Scale Division., S.1.9. Zero-Ready Indicator., S.4.Accuracy Class., S.45. Marking Requirements., N.1. General., N.2. Conditions of Test., T.1. Tolerance Values., T.2. Tolerance Values. and UR.3. Maintenance Requirements – Scale and Conveyor Maintenance.

Committee agreed to accept amendments from submitter to N.2.3.1., N.2.3.2., and Table under UR.3. and to maintain voting status. Amendment are shown below:

N.2.3.1. Minimum Test Load, Weigh-Belt Systems. – The minimum test load shall not be less than the largest of the following values:

(a) 2000 divisions for systems marked Class 0.1, and 800 scale divisions for systems **not marked with an accuracy class and those** marked Class 0.25;
(b) …
(c) …

(Amended 2015 and 20XX)

N.2.3.2. Minimum Test Load, All Other Belt-Conveyor Scale Systems. – Except for applications where a normal weighment is less than 10 minutes, the minimum test load shall not be less than the largest of the following values.

(a) 2000 divisionsl for systems marked Class 0.1, and 800 scale divisions for systems **not marked with an accuracy class and those** marked Class 0.25;
(b) …
(c) …

…

Change in Factor (Reference) Established in N.3.3.(b) **[**Δ N.3.3.(b)]	**Action to be Taken**
For scales not marked with an accuracy class and those marked Class 0.25, if the error is less than 0.25 % (Δ N.3.3.(b) < 0.25 %)**, and** **For scales marked Class 0.1 if the error is less than 0.1 %** **(Δ N.3.3.(b) < 0.1 %)**	No Action
For scales not marked with an accuracy class and those marked Class 0.25, if the error is at least 0.25 % but not more than 0.6 % (0.25 % ≤ Δ N.3.3.(b) ≤ 0.6 %)**, and** **For scales marked Class 0.1, if the error is at least 0.1% but not more than 0.25%** **(0.1 % ≤ Δ N.3.3.(b) ≤ 0.25 %)**	Inspect the conveyor and weighing area for compliance with UR.1. Installation Requirements and, after compliance is verified, repeat the test. If the result of that test remains greater than ± 0.25 % **for scales not marked with an accuracy class and those marked Class 0.25, or greater than ± 0.1 % for scales marked Class 0.1**, a span correction shall be made and the official with statutory authority notified. (Amended 1991)
For scales not marked with an accuracy class and those marked Class 0.25, if the error is greater than 0.6 % but does not exceed 0.75 % (0.6 % < Δ N.3.3.(b) ≤ 0.75 %)**, and** **For scales marked Class 0.1, if the error is greater than 0.25% but does not exceed 0.3%** **(0.25 % < Δ N.3.3.(b) ≤ 0.3 %)**	Inspect the conveyor and weighing area for compliance with UR.1. Installation Requirements and, after compliance is verified, repeat the test. If the result of that test remains greater than ± 0.~~25~~**6** % **for scales not marked with an accuracy class and those marked Class 0.25, or greater than ± 0.25 % for scales marked Class 0.1**, a span correction shall be made, the official with statutory authority shall be notified, and an official test shall be conducted. (Amended 1991)

For scales not marked with an accuracy class and those marked Class 0.25 %, if the error is greater than 0.75 % (Δ N.3.3.(b) > 0.75 %)**, and** **For scales marked Class 0.1, if the error is greater than 0.3%** **(Δ N.3.3.(b) > 0.3 %)**	An official test is required. (Amended 1987)

ABW – AUTOMATIC BULK WEIGHING SYSTEMS

ABW-3 D A. Application, S Specifications, N. Notes, UR. User Requirements and Appendix D – Definitions: automatic bulk weighing system.

No changes.

AWS – AUTOMATIC WEIGHING SYSTEMS

AWS-3 VC S.3.2. Load Cell Verification Interval Value.

Committee noted that proposed language is intended to be nonretroactive however, the proposed language is not formatted in italicized font. Committee agrees to maintain voting status but to amend language to be formatted in italic font. Changes to font shown below:

S.3.2. Load Cell Verification Interval Value. – The relationship of the value for the load cell verification scale interval, v_{min}, to the scale division d for a specific scale installation shall be:

$$v_{min} \leq \frac{d}{\sqrt{N}}$$, where N is the number of load cells in the scale.

Note: When the value of the scale division d differs from the verification scale division e for the scale, the value of e must be used in the formula above.

This requirement does not apply to complete weighing/load-receiving elements or scales which satisfy all the following criteria:

- ***the complete weighing/load-receiving element or scale has been evaluated for compliance***

with T.7.1. Temperature under the National Type Evaluation Program (NTEP);

- ***the complete weighing/load-receiving element or scale has received an NTEP Certificate of Conformance; and***

- ***the complete weighing/load-receiving element or scale is equipped with an automatic zero-tracking mechanism which cannot be made inoperative in the normal weighing mode. (A test mode which permits the disabling of the automatic zero-tracking mechanism is permissible, provided the scale cannot function normally while in this mode.)***

[Nonretroactive as of 20XX]
(Amended 20XX)

WIM – WEIGH-IN-MOTION SYSTEMS USED FOR VEHICLE ENFORCEMENT SCREENING TENTATIVE CODE

WIM-1 D Title of Tentative Code, S.1.7.1. Values to be Recorded., S.4.1. Designation of Accuracy., N.1. Test Procedures, T.2. Tolerance Values for Accuracy ~~Class A~~ Classes., UR.1.1. General, Table 1. Typical Class or Type of Device for Weighing Applications.

No changes.

(NEW) Block 1 items (B1) A Terminology for Testing Standards (verification standards, Field Standards, transfer standards, Field Reference standards, etc.,) Tolerances on Tests when transfer standards are used, minimum quantity for field REFERENCE STANDARD METER TESTS

GEN-3 A G-T.5. Tolerances on Tests When Transfer Standards are Used., Appendix D – Definitions: standards, field., ~~transfer standard.~~ and standard, transfer.

No changes.

BLOCK 1 ITEMS (B1) A TERMINOLOGY FOR TESTING STANDARDS

B1: SCL-4 A N.2. Verification (Testing) Standards

B1: ABW-1 A N.2. Verification (Testing) Standards

B1: AWS-1 A N.1.3. Verification (Testing) Standards, N.3.1. Official Tests, UR.4. Testing Standards

B1: CLM-1 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

B1: CDL-1 A N.3.2. Transfer Standard Test, T.3. On Tests Using Transfer Standards

B1: HGM-1 A N.4.1. Master Meter (Transfer) Standard Test, T.4. Tolerance Application on Test Using Transfer Standard Test Method

B1: GMM-1 A 5.56(a): N.1.1. Air Oven Reference Method Transfer Standards, N.1.3. Meter to Like-Type Meter Method Transfer Standards and 5.56(b): N.1.1. Transfer Standards, T. Tolerances[1]

B1: LVS-1 A N.2. Testing Standards

B1: OTH-1 A Appendix A: Fundamental Considerations, 3.2. Tolerances for Standards, 3.3. Accuracy of Standards

B1: OTH-2 A Appendix D – Definitions: fifth-wheel, official grain samples~~, transfer standard~~ and Standard, Field

No changes.

BLOCK 2 ITEMS (B2) A DEFINE "FIELD REFERENCE STANDARD"

B2: CLM-2 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

B2: CDL-2 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

B2: HGM-2 A N.4.1. Master Meter (Transfer) Standard Test and T.4. Tolerance Application on Test Using Transfer Standard Test Method

B2: OTH-3 A Appendix D – Definitions: field reference standard meter ~~and transfer standard~~

No changes.

LPG-3 A N.3. Test Drafts.

No changes.

MFM-5 A N.3. Test Drafts.

No changes.

BLOCK 3 ITEMS (B3) ADDRESS DEVICES AND SYSTEMS ADJUSTED USING A REMOVABLE DIGITAL STORAGE DEVICE

B3: GEN-2 VC G-S.8.2. Devices and Systems Adjusted Using Removable Digital Storage Device

B3: BCS-1 VC S.5. Provision for Sealing.

B3: ABW-2 VC S.1.6. Provision for Sealing Adjustable Components on Electronic Devices.

B3: AWS-2 VC S.1.3. Provision for Sealing.

B3: LMD-1 VC S.2.2. Provision for Sealing.

B3: VTM-2 VC S.2.2. Provision for Sealing.

B3: LPG-1 VC S.2.2. Provision for Sealing.

B3: HGV-1 VC S.2.2. Provision for Sealing.

B3: CLM-2 VC S.2.5. Provision for Sealing.

B3: MLK-1 VC S.2.3. Provision for Sealing.

B3: WTR-1 VC S.2.1. Provision for Sealing.

B3: MFM-1 VC S.3.5. Provision for Sealing.

B3: CDL-3 VC S.2.5. Provision for Sealing.

B3: HGM-3 VC S.3.3. Provision for Sealing.

B3: EVF-1 VC S.3.3. Provision for Sealing.

B3: TIM-1 VC S.4. Provision for Sealing.

B3: GMA-1 VC S.2.5. Provision for Sealing.

B3: MDM-1 VC S.1.11. Provision for Sealing.

No changes.

BLOCK 4 ITEMS (B4) AUTOMATIC TIMEOUT SPECIFICATIONS

B4: MFM-3 VC S.2.9. Automatic Timeout – Pay-At-Retail Motor-Fuel Devices.

B4: HGM-4 VC S.2.8. Automatic Timeout – Pay-At-Vehicle Fuel Dispensers.

B4: EVF-2 VC S.2.8. Automatic Timeout – Pay-At-EVSE.

No changes.

BLOCK 5 ITEMS (B5) REPEATABILITY TESTS AND TOLERANCES

B5: LMD-2 VC N.4.1.2. Repeatability Tests; N.4.6. Repeatability Tests; and T.3. Repeatability.

Committee agreed to amend paragraphs under LMD-2, LPG-4, VTM-3, and CDL-4 in this proposal to

reflect the changes shown below:

"For devices equipped with an automatic temperature compensator, the results shall be based on uncompensated (gross) volume, (e.g., with the temperature compensator deactivated)."

B5: VTM-3 VC N.4.1.2. Repeatability Tests; N.4.7. Repeatability Tests; and T.3. Repeatability.

B5: LPG-4 VC N.4.1.2. Repeatability Tests; N.4.4. Repeatability Tests; and T.3. Repeatability.

B5: HGV-2 VC N.4.1.2. Repeatability Tests; N.4.3. Repeatability Tests; and T.2. Repeatability.

No changes.

B5: CLM-3 VC N.5.1.1. Repeatability Tests; N.5.3. Repeatability Tests; and T.4. Repeatability.

No changes.

B5: MLK-2 VC N.4.1.1. Repeatability Tests; N.4.4. Repeatability Tests; and T.3. Repeatability.

No changes.

B5: WTR-2 VC N.4.1.1. Repeatability Tests and N.4.4. Repeatability Tests.

No changes.

B5: MFM-6 VC N.6.1.1. Repeatability Tests; N.6.3. Repeatability Tests; and T.3. Repeatability.

No changes.

B5: CDL-4 VC N.4.1.1. Repeatability Tests; N.4.5. Repeatability Tests; and T.2.1. Repeatability.

No changes.

B5: HGM-5 VC N.6.1.1. Repeatability Tests; N.6.2. Repeatability Tests; and T.3. Repeatability.

No changes.

LMD – LIQUID MEASURING DEVICES

LMD-3 VC A.1. General., S.2.5. Zero-Set-Back Interlock, for Retail ~~Motor-Fuel~~ Devices., S.4. Marking Requirements., S.5. Zero-Set-Back Interlock, for Retail ~~Motor-Fuel~~ Devices., UR.2.4. Diversion of Liquid Flow. and UR.2.5. Product Storage Identification.

No changes.

LMD-4 W Airport Refueling Systems – Agreement of Indications and Reset to Zero

No changes.

LMD-5 V UR.3.4. Printed Ticket

Committee agreed to maintain the voting status for this item but to amend the proposal as follows.

UR.3.4. Printed Ticket. –

~~…~~

~~Establishments with a single dispenser having multiple meters or not more than one individual dispenser with a single meter for each product delivered are exempt from the dispenser designation requirement.~~
~~(Retroactive as of January 1, 2023.)~~
~~(Added 2020)~~

Establishments where no product grades are repeated are exempt from the dispenser designation requirement.

(Amended 2019)

VTM – VEHICLE TANK METERS

VTM-1 VC S.3.1.1. Means for Clearing the Discharge Hose and UR.2.6. Clearing the Discharge Hose.

Committee agreed to retain the voting status for this item but amend the proposed language as follows:

(f) clear means, such as an indicator light or audible alarm, is used to identify when the valve is in use ***on both quantity indications and any associated recorded representations (e.g., using such terms as "flushing mode" or "not for commercial use");*** ***[nonretroactive as of January 1, 2022 to become retroactive January 1, 2025] (Amended 2019)***

(g) effective, automatic means shall be provided to prevent passage of liquid through any such flush system during normal operation of the measuring system; and [nonretroactive as of January 1, 2022 to become retroactive January 1, 2025] (Amended 2019)

LPG – LPG AND ANHYDROUS AMMONIA LIQUID-MEASURING DEVICES

LPG-2 VC S.2.5. Zero-Set-Back Interlock, Stationary and Vehicle Mounted Meters, Electronic

No changes.

LPG-3 A N.3. Test Drafts.

No changes.

MFM – MASS FLOW METERS

MFM-2 VC S.1.3.3. Maximum Value of Quantity-Value divisions.

No changes.

MFM-4 VC S.5.1. Location of Marking Information; Retail Motor-Fuel Dispensers.

No changes.

MFM-5 A N.3. Test Drafts.

No changes.

HGM – HYDROGEN GAS-MEASURING DEVICES

HGM-6 V Tentative Code Status and Preamble., A.2.(c) Exceptions., N.2 Test Medium., N.3. Test Drafts., N.4.1. Master Meter (Transfer) Standard Test., N.4.2. Gravimetric Tests., N.4.3 PVT Pressure Volume Temperature Test., N.6.1.1. Repeatability Tests., T.3. Repeatability., T.6. Tolerance –Minimum Measured Quantity (MMQ). and Appendix D. Definitions where applicable.

Committee agreed to present the item as shown in Publication 16 with the following three exceptions:

1. Do not delete but instead retain N.4.1. and N.4.1.1.

   N.4. Tests.

   N.4.1. Master Meter (Transfer) Standard Test. – When comparing a measuring system with a calibrated transfer standard, the minimum test shall be one test draft at the declared minimum measured quantity and one test draft at approximately ten times the minimum measured quantity or 1 kg, whichever is greater. More tests may be performed over the range of normal quantities dispensed.

   N.4.1.1. Verification of Master Metering Systems. – A master metering system used to verify a hydrogen gas-measuring device shall be verified before and after the verification process. A master metering system used to calibrate a hydrogen gas-measuring device shall be verified before starting the calibration and after the calibration process.

2. Eliminate the proposed addition of "**with a minimum of 1000 divisions**," to N.6.1.1. and the proposed addition of "**greater than 1000 divisions**" to T.3.

   N.6.1.1.Repeatability Tests. –Tests for repeatability should include a minimum of three consecutive test drafts of approximately the same size and be conducted under controlled conditions where variations in factors are reduced to minimize the effect on the results obtained.

   …

   T.3. Repeatability. – When multiple tests are conducted at approximately the same flow rate and draft size the range of the test results for the flow rate shall not exceed 40 % of the absolute value of the maintenance tolerance and the results of each test shall be within the applicable tolerance. (Also see N.6.1.1. Repeatability Tests.)

3. Do not add new paragraph T.6. as proposed.

EVF – ELECTRIC VEHICLE FUELING SYSTEMS

EVF-3 D S.3.5. Temperature Range for System Components. and S.5.2. EVSE Identification and Marking Requirements.

No changes.

EVF-4 VC Appendix D – Definitions: power factor (PF).

No changes.

TXI – TAXIMETERS

TXI-1 VC N.1.3.2. Taximeters Using Other Measurement Data Sources.

No changes.

GMA – GRAIN MOISTURE METERS 5.56 (A)

GMA-2 VC Table S.2.5. Categories of Devices and Methods of Sealing.

Committee agreed to present the item under consideration showing Table S.2.5. with a nonretroactive date of 1999 as being removed (using strikethrough text) and replaced with a new nonretroactive date of 2020.
Also, to specify the dates for Table S.2.5. footnotes 1 & 2 as 2020 and to update the amended date for Table S.2.5. to add 2019. The Committee also agreed to retain the voting status of this item.

GMA-3 D Table T.2.1. Acceptance and Maintenance Tolerances Air Oven Method <u>for All Grains and Oil Seeds.</u>

No changes.

MDM – MULTIPLE DIMENSION MEASURING DEVICES

MDM-2 W S.1.7. Minimum Measurement

No changes.

TNS – TRANSPORTATION NETWORK SYSTEMS

TNS-1 W A.4. Type Evaluation.

Committee agreed to withdraw this item based on the request from the submitter.

OTH – OTHER ITEMS

OTH-4 D Electric Watthour Meters Code under Development

No changes.

OTH-5 V Appendix D – Definitions: Batch (Batching)

No changes.

Ms. Rachelle Miller, Wisconsin | Committee Chair
Mr. Loren Minnich, Kansas | Member
Mr. Josh Nelson, Oregon | Member
Mr. Brad Bachelder, Maine | Member
Mr. Jason Glass, Kentucky | Member
Mr. Luciano Burtini, Measurement Canada | Canadian Technical Advisor
Mr. Rick Harshman, NIST, OWM | NIST Technical Advisor
Mr. Darrell Flocken, NCWM | NTEP Technical Advisor

Specifications and Tolerances Committee