

Specifications and Tolerances (S&T) Committee Agenda Items:

Executive Summary



***In preparation for the 2026 Annual Meeting of the
National Council on Weights and Measures (NCWM) on
July 26 – 30, 2026***

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Executive Summaries from the NIST OWM Analysis of the 2026 NCWM Specifications and Tolerances (S&T) Annual Meeting Agenda

The NIST OWM Executive Summary is extracted from the NIST OWM Analysis. This provides the NIST OWM community with high level points that summarize the technical aspects and recommendations for the Item Under Consideration. The full NIST OWM Analysis can be viewed at **<https://www.nist.gov/pml/owm/publications/owm-technical-analysis>**. NIST OWM offers these comments and recommendations based upon information and input available as of the date of this report.

Language shown in bold face print by ~~striking-out~~ information to be deleted and underlining information to be added. Requirements that are proposed to be nonretroactive are printed in *boldfaced italics*.

Assessment of items contained within this report is as of June 15, 2026, and does not address information received after this date.

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Subject Series List for the Specifications and Tolerances Committee

Handbook 44 – General Code	GEN Series
Scales	SCL Series
Belt-Conveyor Scale Systems	BCS Series
Automatic Bulk Weighing Systems	ABW Series
Weights	WTS Series
Automatic Weighing Systems	AWS Series
Weigh-In-Motion Systems used for Vehicle Enforcement Screening	WIM Series
Liquid-Measuring Devices	LMD Series
Vehicle-Tank Meters	VTM Series
Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices	LPG Series
Hydrocarbon Gas Vapor-Measuring Devices	HGV Series
Cryogenic Liquid-Measuring Devices	CLM Series
Milk Meters	MLK Series
Water Meters	WTR Series
Mass Flow Meters	MFM Series
Carbon Dioxide Liquid-Measuring Devices	CDL Series
Hydrogen Gas-Metering Devices	HGM Series
Electric Vehicle Refueling Systems	EVF Series
Vehicle Tanks Used as Measures	VTU Series
Liquid Measures	LQM Series
Farm Milk Tanks	FMT Series
Measure-Containers	MRC Series
Graduates	GDT Series
Dry Measures	DRY Series
Berry Baskets and Boxes	BBB Series
Fabric-Measuring Devices	FAB Series
Wire-and Cordage-Measuring Devices	WAC Series
Linear Measures	LIN Series
Odometers	ODO Series
Taximeters	TXI Series
Timing Devices	TIM Series
Grain Moisture Meters (a)	GMA Series
Grain Moisture Meters (b)	GMB Series
Near-Infrared Grain Analyzers	NIR Series
Multiple Dimension Measuring Devices	MDM Series
Electronic Livestock, Meat, and Poultry Evaluation Systems and/or Devices	LVS Series
Transportation Network Measuring Systems	TNS Series
Other Items	OTH Series

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*Details of NIST OWM Executive Summaries
(In order by Reference Key)*

GEN – General Code

GEN-26.1 V G-S.5.6. Recorded Representations and Appendix D – Definitions: <u>electronic receipt</u>
NIST OWM Recommendation: Voting with suggested edits • The functional characteristics of a recorded representation are addressed with the addition of the proposed amendment to the definition of recorded representation. • Further amending the definition of recorded representation by including examples of acceptable forms of electronic recorded representations achieves the intent of the item without being prescriptive and will provide additional clarification related to electronic recorded representations. • The proposed edit also eliminates the need for a new definition of “electronic receipt”, which causes confusion as there is no definition of the word receipt, and an electronic receipt is identical to an already defined electronic recorded representation.

SCL – SCALES

SCL-22.2 A UR.3.1.X. Required Minimum for Cannabis Products
¹NIST OWM Recommendation: Assigned • Stakeholders should carefully consider the 100 e minimum load being proposed. • A purchase with a net weight of 0.8 g, would only represent 80 e ($0.8 \text{ g} \div 0.01 \text{ g}$) on a scale with an e = 0.01 g. • OWM is about to publish a Special Publication with an analysis of the suitability aspects when considering scales for the sale of cannabis products. This publication is to help the cannabis task group and other stakeholders determine suitable requirements for these scales. ¹ In contrast to hemp, marijuana remains a Schedule I substance under the Controlled Substances Act. NIST does not have a policy role related to the legalization of the production, sale, distribution, or use of cannabis (including hemp and marijuana). NIST participates in the National Council of Weights and Measures (NCWM) as part of NIST’s statutory mission to promote uniformity in state laws, regulations, and testing procedures.

SCL-24.2 D Multiple Sections Regarding Tare

NIST OWM Recommendation: Developing

- NIST OWM recognizes the issues raised by the submitter. The error introduced into the measurement under the current requirements can be as much as the acceptance tolerance for single interval scales and a multiple of the acceptance tolerance for multi-interval scales.
- NIST OWM believes that the proposed amendments may help solve these issues. However, there are still parts of this item that are not yet fully developed. NIST OWM supports further development of the item.

SCL-25.1 V S.5.2. Parameters for Accuracy Class, S.6. Marking Requirements, and UR.3. User Requirements

NIST OWM Recommendation: Voting

- Expressing the minimum load in scale divisions, d, is technically justified as it is a matter of display resolution, and not the tolerance or accuracy of the scale. OWM encourages the members to carefully read this justification in the detailed OWM analysis.
- This proposal brings the Scales Code in line with OIML R 76 regarding its relationship to the scale division.
- OWM believes that the item has been fully vetted and supports a voting status.

HGV – HYDROCARBON GAS VAPOR-MEASURING DEVICES

HGV-25.1 D S.1.1.4. Advancement of Indicating and Recording Elements., S.11.5. Proving Indicator., S.2.2. Provision for Sealing., S.4.3. Temperature Compensation., S.4.4. Badged identification., N.3. Test Drafts., N.4.1. Normal Tests., and Appendix D. Definitions register

NIST OWM Recommendation: Developing

- There is currently a paragraph numbered UR.1.1. in Section 3.33. This item proposes a new paragraph UR.1.1. which must be renumbered.
- Within the justification of this item, there is a recommendation to add “register” to the Definitions in NIST HB 44, but no definition for “register” is included in the proposal. See Detailed Analysis.
- Although the National Propane Gas Association supported these items at the Interim meeting, the submitter requested that the item be given a developing status so that formatting issues can be corrected and to allow the corrected proposal additional time for review. NIST OWM supports a developing status.

LMD – LIQUID MEASURING DEVICES

LMD-24.2 V N.4.1. Normal Tests
NIST OWM Recommendation: Voting OWM worked with the submitter to develop the current language, which has been vetted through each region and by other stakeholders such as the Meter Manufacturers Association. This item is fully developed and is recommended for adoption.
LMD-26.1 A S.2. Measuring Elements, S.4. Marking Requirements, N.4. Testing Procedures, U.R.6. Temperature <u>Volume Compensation and Correction</u> Wholesale, and <u>T.5. Density Correction Systems</u>
NIST OWM Recommendation: Assigned - OWM recognizes that blending ethanol and petroleum products results in a greater volume of the blended product than the sum of the volume of the separate products when corrected to the reference temperature of 15 °C (60 °F). - This phenomenon has been recognized for some time, as evidenced by a presentation given during the 2007 CWMA Annual Meeting by Ron Hayes (MO Retired). - The question before the weights and measures community is how best to quantify this phenomenon. This item was submitted in response to an issue a state had with a wholesale device that currently utilizes a system that corrects for density/excess volume. - This item has been assigned to an NCWM Task Group. NIST OWM looks forward to the work the task group will perform. - OWM notes that the Item Under Consideration includes the previous version of this proposal, which is stricken through, and that the most recent language provided by the submitter is not formatted to conform to the style of NIST Handbook 44.

WTR – WATER METERS CODE

WTR-26.2 V S.1.1.4. Advancement of Indicating and Recording Elements
NIST OWM Recommendation: Voting • This amendment removes language that could lead to misinterpretation of this requirement (see Original Justification). • OWM supports adoption of this item.

EVF – ELECTRIC VEHICLE FUELING SYSTEMS

EVF-26.2 A Section 3.40 Electric Vehicle Fueling System A.2. Exemptions, S.1 Primary Indicating and Recording Element, S.1.2. EVSE Indication Elements, S.1.3.2 EVSE Values of Smallest Units, S.2.3. EVSE Provision for Power Loss, S.2.4.2. Equipment Capacity and Type of Voltage, S.2.4.4. Agreement Between Indications, S.2.5.1. Money-Value Divisions Digital, S.7 Totalizer for EVSE Systems, N.3.2. Type Evaluation of a DC EVSE
NIST OWM Recommendation: Assigned • NIST OWM is supportive of the intent of this item, “to add clarity, uniformity, and consistency” to Section 3.40. and looks forward to the work of the EVSE Task Group. • Proposed amendments to A.2. (a) would bring devices owned and operated by a Public Utility under the jurisdiction of Weights and Measures officials, which may conflict with state laws or regulations. ○ This change may lead to further confusion and should be carefully considered. • The removal of A.2. (b) may also have unintended consequences. ○ This sub-paragraph exempts devices that dispense electrical energy for “free” from compliance with this section. ○ NIST HB 44 requirements are intended to be applied to transactions that involve a commercial or law enforcement measurement. When there is no fee for EV fuel, there’s no commercial transaction. ○ Most of these devices have no measuring element and would be made obsolete by the removal of A.2. (b). ○ This change must also be carefully considered, as it may have a significant impact on those who own or operate these devices.

EVF-26.2 A Section 3.40 Electric Vehicle Fueling System A.2. Exemptions, S.1 Primary Indicating and Recording Element, S.1.2. EVSE Indication Elements, S.1.3.2 EVSE Values of Smallest Units, S.2.3. EVSE Provision for Power Loss, S.2.4.2. Equipment Capacity and Type of Voltage, S.2.4.4. Agreement Between Indications, S.2.5.1. Money-Value Divisions Digital, S.7 Totalizer for EVSE Systems, N.3.2. Type Evaluation of a DC EVSE

- The proposed language in S.1.X, specifically the phrase “as part of the device,” is vague and could be interpreted as requiring the primary indicating element to be included as a component of the EVSE system, as the term “device” is also interpreted as the combination of the components that are required to facilitate a transaction.
 - A vehicle scale is a weighing device, but typically the primary indicating element is a separate component from the weighing element.
 - A VTM, which is a measuring device, typically has a meter and a separate primary indicating element.
- The proposed retroactive language in S.1.2. could make those EVSE that currently comply with this paragraph obsolete. OWM supports this change, but as a nonretroactive requirement, see suggested language in the Detailed Analysis.
- The proposed amendment to S.1.3.2., changing the number of decimal places for AC EVSE from four (0.0000 kWh) to three (0.000 kWh), will have an effect on measurement accuracy, see detailed analysis.
- The proposed changes to S.2.3.1, S.2.3.2, and S.2.3.3 are formatted in a way that makes it difficult to know what the intended effect will be.
 - In the 2025 version of NIST HB 44, each of these paragraphs is retroactive.
 - In this item, the titles are in italics, which is representative of a nonretroactive requirement, but the remaining language is in upright type, and there are no dates associated with the paragraphs.
 - Adopting these changes as retroactive would affect all EVSE, possibly causing them to be out of compliance
- OWM agrees that the language in S.2.4.2. could be improved, but we have several concerns with the proposed amendments
 - The phrase “and any app used to advertise, or activate, or both” is too broad and would apply to any application that is associated with an EVSE, such as an app that “advertises” the location of an EVSE, but isn’t involved in the commercial transaction
 - Requiring the maximum rate of energy transfer possible and the maximum rate of energy transfer currently available to be displayed may result in providing less clarity and uniformity in the information consumers are provided.
 - See Detailed Analysis for alternatives to the proposed changes.

EVF-26.2 A Section 3.40 Electric Vehicle Fueling System A.2. Exemptions, S.1 Primary Indicating and Recording Element, S.1.2. EVSE Indication Elements, S.1.3.2 EVSE Values of Smallest Units, S.2.3. EVSE Provision for Power Loss, S.2.4.2. Equipment Capacity and Type of Voltage, S.2.4.4. Agreement Between Indications, S.2.5.1. Money-Value Divisions Digital, S.7 Totalizer for EVSE Systems, N.3.2. Type Evaluation of a DC EVSE
• The proposed amendments to S.2.4.4. are redundant as this paragraph and G-S.5.2.2. (a) both require agreement of all values in a system. • OWN supports consistency between the values in S.1.3.2. and S.2.5.1. ○ We are concerned with the amendments proposed to S.1.3.2. and suggest amending S.2.5.1. with language in the Detailed Analysis. • If the weights and measures community supports the changes proposed to S.7., the new requirement should be nonretroactive, see Detailed Analysis. • OWM agrees that type evaluation requirements are most appropriately identified in NCWM Pub 14 or other type evaluation procedures (CTEP) and supports the removal of N.3.2. Type Evaluation Testing of a DC EVSE. ○ In the case of EVSE, there is no sector or work group that actively meets to update/amend the EVSE section of Pub 14. ○ The most qualified opinion on whether this proposed change is appropriate or necessary would be from the NTEP. OWM will defer to their opinion.

FMT – FARM MILK TANKS

FMT-26.1 V S.1.4. General
NIST OWM Recommendation: Voting • <u>At the 2026 NCWM Interim meeting USDA supported language suggested by NY Weights and Measures and recommended by the NEWMA S&T Committee at the 2025 NEWMA Interim Meeting to change the term “address” to “physical address” and to make the new language nonretroactive.</u> • <u>There are some formatting issues that must be corrected before this item is considered for a vote (see detailed analysis).</u> • <u>With the formatting corrections and the addition of the term “physical” to change “address” to “physical address”, NIST OWM supports this as a Voting Item.</u>

FMT-25.1 V UR.1. Installation
NIST OWM Recommendation: Voting - The item under consideration was revised after the 2026 NCWM Interim meeting and includes this new language: <i><u>“A permanent means shall be in place to prevent any readjustment or shifting out of level after the equipment’s calibration.. A stationary tank shall not move during the loading or unloading process.”</u></i> - The word “permanent” should be spelled “permanent”, the extra period after “calibration” should be removed, and an asterisk should be added to precede the nonretroactive date. - With these revisions, OWM supports this as a Voting item.

TIM – TIMING DEVICES

TIM-26.1 V S.1.1.3. Value of Smallest Division
NIST OWM Recommendation: Voting - This item clarifies that EVSE offering time-related services must have a unit of time not greater than 1 minute. - Based on comments made during the regional meetings, OWM is proposing an updated version with simplified language (Note, PUB 16 has the updated version but has incorrect formatting; a summary of these issues has been provided to the NCWM S&T Committee.). See Detailed Analysis.

MDM – MULTIPLE DIMENSION MEASURING DEVICES

MDM-25.1 V Multiple Sections Regarding Adding Volumetric Measuring Devices to Section 5.58
NIST OWM Recommendation: Voting - Each region had the opportunity to review this item, and while only one region recommended Voting status, the other regions didn’t provide specific areas that needed further development. - OWM believes this item is fully developed and supports adoption.

MDM-26.1 V S.1.5.2. Devices Capable of Measuring Irregularly Shaped Objects
NIST OWM Recommendation: Voting with suggested changes • OWM has a few concerns about the existing language in specification S.1.5.2. Devices Capable of Measuring Irregularly Shaped Objects, and the proposed amendments: ○ The title of S.1.5.2. refers to irregularly shaped objects. OWM believes that the existing language applies (or should apply) to all objects and not just irregularly shaped objects. ○ The last portion of the existing language: “<i>provided that electronic rotation of the object to determine the smallest hexahedron is calculated in only a two-dimension horizontal plane, retaining the stable side plane as the bottom of the hexahedron</i>” is irrelevant, and unnecessarily prescriptive and/or restrictive. ○ The proposed additional language under consideration can be interpreted as contradicting the existing language in the paragraph. ○ To accommodate multi-interval instruments, additional requirements are necessary. Restriction of the division size, d, is not enough • OWM has developed alternative language which can be found in the Detailed Technical Analysis. • OWM supports adoption of this item with the recommended changes to the proposal. • Item MDM-25.1 is assigned a Voting status. The NCWM S&T Committee must have a plan to identify any changes that may be needed to this item if item MDM-25.1 is adopted.

OTH – OTHER ITEMS

OTH-25.1 A 2.26 Weigh-in-Motion Systems Used for Vehicle Direct Enforcement
NIST OWM Recommendation: Assigned • The submitters have demonstrated the need for direct and permanent enforcement, and that WIM installations are suitable and extremely effective. • Regarding the installation in New York State: The number of violations has dropped by 60% during its first year of operation. ○ As of 4/4/2025, there had been no legal challenges regarding the accuracy of the WIM system. ○ The WIM installation has proven that WIM systems can be stable over a longer period, depending on the type of pavement.

OTH-25.1 A 2.26 Weigh-in-Motion Systems Used for Vehicle Direct Enforcement

- The certification and inspections of the WIM have become part of the regular W&M program of the NYS Department of Agriculture and Markets. Many of these resources are provided by the owner of the WIM system, lifting the burden on the Bureau of Weights and Measures.
- The installation in New York is the first WIM in the US that is used in direct enforcement of weight limit on public roads. NIST OWM expects that, given the success of the pilot in NYC, these systems will also be installed in other places. This creates a need for a national standard to ensure a harmonized approach.
- The submitters have addressed the concerns expressed during meetings of the Council with respect to the failed item WIM-23.1 by:
 - Reducing the number of test runs during subsequent verifications, and
 - Introducing a class with tighter tolerances, which gives states more flexibility to implement WIM systems as they see fit.
- The proposed classification and tolerances are comparable with the WIM standards from ASTM and OIML.
- NIST OWM supports the work to be done by the WIM Task Group.

OTH-26.1 V Appendix D Definitions – interference test

NIST OWM Recommendation: Voting

- The adoption of this definition separates the interference test applicable to EVSE that assess fees for time-based services from the interference tests for other device types.

OTH-26.2 V Appendix D Definitions – scale division, value of (d)

NIST OWM Recommendation: Voting

- This item updates the definition to clearly allow electronic recorded representations and corrects an inaccurate reference to the “verification scale division”.
- The item is fully developed, has been vetted, and is ready for adoption.

ITEM BLOCK 1 (B1) – TRANSPORTATION-FOR-HIRE SYSTEMS

ITEM BLOCK 1 (B1) I Transportation-for-Hire Systems
NIST OWM Recommendation: Informational NIST OWM suggests the NCWM S&T Committee review the comments received at the Regional Meetings and at the 2026 NCWM Interim Meeting to determine if this item needs further development.

ITEM BLOCK 2 (B2) – REFERENCES TO TYPE EVALUATION

B2: CDL-26.1 V A.4. ~~Type Evaluation~~

B2: HGM-26.1 V A.4. ~~Type Evaluation~~

B2: EVF-26.1 V A.4. Type Evaluation

B2: EMS-26.1 V A.4. Type Evaluation

B2: GMA-26.1 V A.4. ~~Type Evaluation~~

ITEM BLOCK 2 (B2) V References to Type Evaluation
NIST OWM Recommendation: Voting - This item removes paragraphs that no longer serve their intended purpose. - OWM consulted Jeff Gibson, NTEP Administrator, and Darrell Flocken, Former NTEP Administrator, regarding this proposal. Neither Jeff nor Darrell had concerns with the proposed amendments in this block of items.

ITEM BLOCK 3 (B3) – METHOD OF SEALING, CATEGORY 3

B3: SCL-26.1 V Section 2.20, Table S.1.11. Categories of Device and Method of Sealing

B3: BCS-26.1 V Section 2.21, Table S.6 Categories of Device and Method of Sealing

B3: AWS-26.1 V Section 2.24, Table S.1.3. Categories of Device and Methods of Sealing

B3: LMD-26.2 V Section 3.30, Table S.2.2. Categories of Device and Methods of Sealing

B3: VTM-26.1 V Section 3.31, Table S.2.2. Categories of Device and Methods of Sealing

B3: LPG-26.1 V Section 3.32, Table S.2.2. Categories of Device and Methods of Sealing

B3: CLM-26.1 V Section 3.34, Table S.2.5. Categories of Device and Methods of Sealing

B3: MLK-26.1 V Section 3.35, Table S.2.3. Categories of Device and Methods of Sealing

B3: WTR-26.1 V Section 3.36, Table S.2.1. Categories of Device and Methods of Sealing

B3: MFM-26.1 V Section 3.37, Table S.3.5. Categories of Device and Methods of Sealing

B3: CDL-26.1 V Section 3.38, Table S.2.5. Categories of Device and Methods of Sealing

B3: HGM-26.2 V Section 3.39, Table S.3.3. Categories of Device and Methods of Sealing

B3: EVF-26.3 V Section 3.40, Table S.3.3. Categories of Device and Methods of Sealing

B3: EMS-26.2 V Section 3.41, Table S.2.2. Categories of Device and Methods of Sealing

B3: MDM-26.2 V Table S.2.2. Categories of Device and Methods of Sealing

ITEM BLOCK 3 (B3) V Method of Sealing, Category 3
NIST OWM Recommendation: Voting • OWM agrees that similar language across the sections of NIST HB 44 would help with the uniform interpretation of the Method of Sealing for Category 3 devices. • At the 2026 NCWM Interim Meeting the requirements for Method of Sealing, Category 3 in additional codes were added to this item per comments received from SMA and supported at the meeting. • The submitter, Michael Keilty, incorporated the proposed NIST wording below into the Category 3 Sealing requirements for the various codes previously included in the item under consideration and added language to amend these requirements in the Scales, Belt-Conveyor Scales Systems, and Automatic Bulk Weighing Systems codes. “An event logger is required in the device; it must include an event counter (000 to 999), the parameter ID, the date and time of the change, and the new value of the parameter. The event logger information shall be available at the time of inspection either as a printed copy or transmitted in an electronic format. The event logger shall have a capacity to retain records equal to 10 times the number of sealable

ITEM BLOCK 3 (B3) V Method of Sealing, Category 3
parameters in the device, but not more than 1000 records are required. (Note: Does not require 1000 changes to be stored for each parameter.)” - Although NIST OWM supports this item as a Voting item, there were three new codes added to this item at the Interim - This may require additional review, and if the weights and measures community feels the item needs to be downgraded to allow for sufficient review of these changes, OWM would support an Informational status.

ITEM BLOCK 4 (B4) – ELECTRIC VEHICLE ~~FUELING SYSTEMS~~ SUPPLY EQUIPMENT

B4: OTH-26.3 V Handbook 44 Main Table of Contents

B4: OTH-26.4 V Section 3 Table of Contents

B4: EVF-26.4 V Section 3.40. Electric Vehicle ~~Fueling Systems~~ Supply Equipment

B4: EMS-26.1 V A. Application

B4: TIM-26.1 V S.1.4. Recorded Representations

ITEM BLOCK 4 (B4) V Electric Vehicle Fueling Systems <u>Supply Equipment</u>
NIST OWM Recommendation: Voting - OWM supports renaming Section 3.40. Electric Vehicle Fueling Systems, replacing the phrase “Electric Vehicle Fueling Systems” with “Electric Vehicle Supply Equipment”, in the title and throughout NIST HB 44. - Because the phrase “Electric Vehicle Supply Equipment” is used in most instances in NIST HB 44 when referring to devices that supply electrical energy to electric vehicles, it is defined in Appendix D, and is used in NIST HB 130 in the Method of Sale for Retail Sales of Electricity Sold as a Vehicle Fuel, this proposed change will make both handbooks’ terminology more consistent. - In item OTH-26.3, the words “Supply Equipment” should be underlined, instead of stricken through.