# 2024 Amendments

The following table lists the codes, paragraphs, and pages in which the 109th National Conference on Weights and Measures adopted amendments. In the column headed “Action,” changes are noted as “added,” “amended,” “deleted,” or “renumbered.” Each code, section, or paragraph that has been changed will be noted as “Added 2024” or “Amended 2024.”

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| Section | Code | S&T Item No. | Paragraph | Action | Page |
| 2.20. | Scales | SCL-23.3 | S.1.1.1. Digital Indicating Elements | Amended | 2-7 |
| S.1.2. Value of Scale Division Units | Amended | 2-8 |
| S.1.2.1. Digital Indicating Scales, Units | Amended | 2-8 |
| S.1.2.2. Verification Scale Interval | Amended | 2-8 |
| S.1.2.2.1. Class I and II Scales and Dynamic Monorail Scales | Amended | 2-8 |
| S.1.2.2.2. Class III and IIII Scales | Amended | 2-9 |
| S.1.2.2.2.1. Dynamic Monorail Scales | Added | 2-9 |
| S.1.2.2.2.2. Weight Classifiers | Added | 2-9 |
| S.1.2.2.3. Extended Display Mode | Added | 2-9 |
| S.5.4. Relationship of Minimum Load Cell Verification Interval Value to the Scale Division | Amended | 2-21 |
| Table 3. Parameters for Accuracy Classes | Amended | 2-22 |
| Table S.6.3.a. Marking Requirements | Amended | 2-24 |
| Table S.6.3.b. Notes for Table S.6.3.a. Marking Requirements | Amended | 2-25 |
| T.1.1. General | Amended | 2-40 |
| T.2.2. General | Amended | 2-42 |
| T.2.4. Jewelers’ Scales | Amended | 2-42 |
| T.2.7.1. Equipped With Balance Indicators | Amended | 2-42 |
| T.2.7.2. Not Equipped With Balance Indicators | Amended | 2-42 |
| T.2.8. Railway Track Scales | Amended | 2-43 |

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| Section | Code | S&T Item No. | Paragraph | Action | Page |
|  |  |  | T.N.1.2. Accuracy Classes | Amended | 2-43 |
| T.N.1.3. Verification Scale Division | Amended | 2-43 |
| T.N.3.4. Crane and Hopper (Other than Grain Hopper) Scales | Amended | 2-44 |
| Table 6. Maintenance Tolerances | Amended | 2-44 |
| T.N.4.3. Single Indicating Element/Multiple Indications | Amended | 2-46 |
| T.N.6.1. Test Load | Amended | 2-49 |
| T.N.8.1.3. Temperature Effect on Zero-Load Balance | Amended | 2-50 |
| T.N.9. Radio Frequency Interference (RFI) and Other Electromagnetic Interference Susceptibility | Amended | 2-51 |
| SCL-24.3. | Table 6. Maintenance Tolerances | Amended | 2-44 |
| SCL-22.3 | UR.3.3. Single-Draft Vehicle Weighing | Amended | 2-57 |
| UR.3.4. Weighing of Axle Loads and Axle-Group Loads | Added, renumbered subsequent paragraph | 2-57 |
| 2.24 | Automatic Weighing Systems | AWS-24.2 | N.1.6. Influence Factor Testing | Deleted | 2-XXX |
| AWS-24.3 | N.2.2.3. Shift Test (Dynamic) | Added | 2-110 |
| 3.30. | Liquid-Measuring Devices | B1: LMD-24.1 | N.3.5.3. Field Standard Meter Test | Amended | 3-18 |
| 3.31. | Vehicle-Tank Meters | B1: VTM-24.1 | N.3.1. Field Standard Meter Test | Amended | 3-39 |
| 3.32. | Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices | B2: LPG‑24.2 | S.2.5.1. Zero-Set-Back Interlock, Electronic Stationary Meters (Other than Stationary Retail Motor-Fuel Dispensers) and Electronic Vehicle-Mounted Meters | Amended | 3-53 |
| S.2.5.2. Zero-Set-Back Interlock for Stationary Retail Motor‑Fuel Devices | Amended | 3-54 |
| B1: LPG-24.3 | N.3.2. Field Standard Meter Test | Amended | 3-56 |

| Section | Code | S&T Item No. | Paragraph | Action | Page |
| --- | --- | --- | --- | --- | --- |
| 3.35. | Milk Meters | B1: MLK-24.1 | N.3.2. Field Standard Meter Test | Amended | 3-94 |
| 3.37. | Mass Flow Meters | B1: MFM-24.1 | N.3.2. Field Standard Meter Test | Amended | 3-117 |
| 3.40. | Electric Vehicle Fueling Systems | EVF-24.2 | S.2.7. Indication of Delivery | Amended | 3-156 |
| EVF-23.4 | S.5.2. and S.5.2.(b) EVSE Identification and Marking Information; maximum deliverable amperes | Amended | 3-159 |
| S.5.3.(e) Abbreviations and Symbols; maximum current deliverable | Added | 3-159 |
| N.3. Test of an EVSE System | Amended | 3-160 |
| N.3.1. Performance Verification in the Field | Amended | 3-160 |
| N.3.2. Accuracy Testing and N.3.2.(a); For AC systems and N.3.2.(b) For DC systems | Amended | 3-161 |
| N.3.3. Performance Verification in the Field of a DC EVSE | Added to amend and renumber N.3.2.(b) | 3-161 |
| EVF-23.6 | S.5.2. EVSE Identification and Marking Requirements | Amended | 3-159 |
| S.5.2.1. Marking of Accuracy Class DC EVSEs Placed in Service Prior to 2024 | Added | 3-159 |
| T.2. Load Test Tolerances | Amended | 3-162 |
| T.2.1. EVSE Load Test Tolerances | Amended | 3-162 |
| T.2.2. EVSE Accuracy Test Tolerances for DC Systems | Added | 3-162 |
| 3.41 | Non-Utility Electricity-Measuring Systems (NUEMS) – Tentative Code | OTH-16.1 | New Code | Added | 3-165 |
| Appendix D. | Definitions | SCL‑23.3 | auxiliary indication | Added | D‑9 |
| OTH-24.2 | Certificate of Conformance (CC) | Added | D-11 |
| SCL-23.3 | extended display-mode | Added | D‑17 |
| EVF-23.4 | maximum current deliverable (MCD) | Added | D-22 |
| maximum deliverable amperage (MDA) | Added | D-22 |
| SCL-23.3 | nmax (maximum number of scale divisions) | Amended | D-25 |
| nmax (maximum number of verification scale intervals) | Added | D‑25 |
| OTH-24.2 | National Type Evaluation Program (NTEP) | Added | D-25 |
| SCL-23.3 | scale division, number of (n) | Amended | D-31 |
| verification scale division, value of (e) | Amended | D‑37 |
| verification scale interval, number of (n) | Added | D‑37 |
| weight classifier | Amended | D‑38 |

# 2024 Editorial Changes

| Section | Code | Paragraph | Action | Page |
| --- | --- | --- | --- | --- |
| Introduction | D. System of Paragraph Designation | Numerical Designation Example | Corrected example to reflect new paragraph name in Section 2.20.: S.1.2. Value of Scale **~~Division~~** Units. | 2 |
| 2.20. | Scales | S.1.8.2. | Reference to S.1.8.2. corrected to S.1.8.3. | 2-14 |
| 3 | Table of Contents | 3.39. & 3.40. | Removed the term “Tentative Code” from the titles “Hydrogen Gas-Measuring Devices” and “Electric Vehicle Fueling Systems” | 3-1 |
| 3.30. | Liquid-Measuring Devices | Table of Contents | In the title of UR.3.4. the words “Printed Ticket” were corrected to “Recorded Representations”. | 3-24 |
| N.4.1. Normal Tests | Corrected acronym for maximum discharge flow rate from MFDR to MDFR by repositioning the “D” for “discharge” to the proper position. | 3-18 |
| Appendix C | General Tables of Units of Measurement | Units of Area | Abbreviation for acre absent | C-6 |
| C-25 |
| Units of Area-Survey Measure | Incomplete Abbreviation for acre | C-15 |
| Appendix D | Definitions | utility-type water meter | Corrected punctuation by changing the period near the end of this definition to a comma to read: A device used for the measurement of water, generally applicable to meters installed in residences or business establishments, excluding batching meters. | D-36 |
| verification scale interval, number of (n) | Removed the mathematical term that identified (n) as the “quotient” in the mathematical calculations required to determine the value of (n). | D-37 |

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