

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.”

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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			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
		EVF-23.6	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

Section	Code	S&T Item No.	Paragraph	Action	Page
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	n_{\max} (maximum number of scale divisions)	Amended	D-25
			n_{\max} (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
		Units of Area-Survey Measure	Incomplete Abbreviation for acre	C-25
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.	C-15
		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-36
				D-37

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