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## 2019 Amendments

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The following table lists the laws and regulations amended by the 104<sup>th</sup> (2019) National Conference on Weights and Measures (NCWM). As appropriate, the text on the cited pages indicates the changes to the law or regulation, section, or paragraph as “Added 2019” or “Amended 2019.” Unless otherwise noted, the effective date of the regulations added or amended in 2019 is January 1, 2020.

Law or Regulation	L&R Committee Item No.	Section	Action	Page
<b>IV. Uniform Regulations</b>				
<b>B. Uniform Regulation for the Method of Sale of Commodities</b>	MOS-5	Preamble	Amended	107
		Section 1. Food Products	Amended	107
		Section 2. Non-Food Products	Amended	115
	MOS-6	2.39. Tractor Hydraulic Fluid	Added	143
	MOS-7	2.4.3.(a)(1) Quantity	Amended	116
	MOS-8	2.38. Non-Utility Transactions of Electrical Energy (other than Vehicle Fueling Applications)	Added	143
	MOS-11	2.37. Pet Treats or Chews	Amended	142
<b>E. Uniform Open Dating Regulation</b>	ODR-2	1. Background (Effective January 1, 2022 this regulation will be removed in its entirety.)	Amended	163
<b>G. Uniform Fuels and Automotive Lubricants Regulation</b>	FLR-6	<b><u>1.31.</u></b> <b>Hydraulic Fluid</b>	Added	189
		<del>1.312.</del> Hydrogen Fuel	Renumbered	189
		<del>1.323.</del> Internal Combustion Engine	Renumbered	189
		<del>1.334.</del> International Organization for Standardization (ISO)	Renumbered	189
		<del>1.345.</del> Kerosene	Renumbered	189
		<del>1.356.</del> Lead Substitute	Renumbered	189
		<del>1.367.</del> Lead Substitute Engine Fuel	Renumbered	189
		<del>1.378.</del> Liquefied Natural Gas (LNG)	Renumbered	189
		<del>1.389.</del> Liquefied Petroleum Gas (LPG)	Renumbered	190
		<del>1.3940.</del> Low Temperature Operability	Renumbered	190
		<del>1.401.</del> Lubricant	Renumbered	190
		<del>1.412.</del> Lubricity	Renumbered	190
		<del>1.423.</del> M85 Fuel Methanol	Renumbered	190
		<del>1.434.</del> Motor Octane Number	Renumbered	190

Law or Regulation	L&R Committee Item No.	Section	Action	Page
		1.445. Motor Oil	Renumbered	190
		1.456. MTBE	Renumbered	190
		1.467. Oil	Renumbered	190
		1.478. Oxygen Content of Gasoline	Renumbered	190
		1.489. Oxygenate	Renumbered	190
		1.4950. Racing Gasoline	Renumbered	190
		1.501. Research Octane Number	Renumbered	190
		1.512. SAE (SAE International)	Renumbered	191
		1.523. Thermal Stability	Renumbered	191
		<b>1.54. Tractor Hydraulic Fluid</b>	Added	191
		1.535. Unleaded	Renumbered	191
		1.546. Wholesale Purchaser Consumer	Renumbered	191
		<b>2.22. Products for Use in Lubricating Tractors</b>	Added	196
	<b>3.17. Tractor Hydraulic Fluid</b>	Added	206	
	Priority Item	2.1.2.(a) Gasoline-Ethanol Blends	Amended	191
	FLR-1	Section 3. Classification and <b>Labeling for Method of Sale</b>	Amended	197
	FLR-7	2.2. Diesel Fuel.	Amended	192
2.2.1.(a) Cetane Number. <b>NOTE: ASTM D613, "Standard Test Method for Cetane Number of Diesel Fuel Oil"</b>		Added	192	
2.2.(b) Low Temperature Operability.		Amended	193	
<b>2.2.(c) Thermal Stability</b>		Deleted	193	
2.2.(c) Lubricity.		Renumbered and Amended	193	
<b>2.2.(d) Corrosion.</b>		Added	193	
<b>2.2.(e) Filter Blocking Tendency (FBT).</b>		Added	193	
<b>2.2.(f) Injector Deposit Control.</b>		Added	193	
<b>2.2.2. Use of Other Diesel Terminology.</b>	Added	193		

## 2019 Editorial Changes

The following items were deemed editorial in nature based on the following criteria: 1) the modified text did not change the meaning or procedure outlined, 2) modified text corrected an omission or clarified how the text was written, or 3) the item itself was reformatted and relocated in the text to make the organization of the content more meaningful.

**Note:** For the purposes of this table, the **bold, underscored** text indicates new language added and **bold, strikeout** text indicates deleted text.

Law or Regulation	Section	Action	Page
<b>I. Introduction</b>			
	A. Source	Updated E-mail and URL	1
	H. Effective Enforcement Dates of Regulations	7. Uniform <del>Regulation for</del> Fuels, <del>Petroleum Products,</del> and Automotive Lubricants <u>Regulation</u>	3
	J. The International System of Units	General Conference on Weights and Measures ( <del>GIPM</del> <u>CGPM</u> )	3
	Form 15	Updated Form	4
<b>II. Uniformity of Laws and Regulations</b>			
	C. Summary of State Laws and Regulations in Weights and Measures (as of <del>August 1, 2018</del> <u>November 1, 2019</u> )	Updated table and tallies.	6-9
<b>III. Uniform Laws</b>			
	Table of Contents	C. Uniform <del>Engine</del> Fuels and Automotive Lubricants Inspection Law	13
<b>A. Uniform Weights and Measures Law</b>	Section 2. System of Weights and Measures	General Conference on Weights and Measures ( <u>CGPM</u> )  NIST Special Publication 330, “The International System of Units (SI),” <u>2019 edition</u>	19
	Title	Correction to: Section 4. Technical Requirements for Weighing <u>and Measuring Devices</u>	20
<b>C. Uniform Fuels and Automotive Lubricants Inspection Law</b>	Section 8. Prohibited Acts	Correction to <b>8.6. Represent</b> <u>Misrepresent</u>	47

Law or Regulation	Section	Action	Page
<b>IV. Uniform Regulations</b>			
<b>A. Uniform Packaging and Labeling Regulation</b>	Background	NIST Special Publication 330 “The International System of Units (SI)” <del>2008</del> <b>2019</b> edition	51
	2.15. SI or SI Units	General Conference on Weights and Measures ( <b>CGPM</b> )  NIST Special Publication 330 “The International System of Units (SI)” <del>2008</del> <b>2019</b> edition	60
	6.3. Net Quantity.	Added for clarity 6.3.1. Use of “Net Mass” or “Net Weight.” – <b>When stating the net quantity of contents in terms of weight</b> a quantity declaration may stand alone	61
		Added for clarity <b>6.3.2. Use of “Net Contents.” – When stating the net quantity of contents in terms of fluid measure or numerical count, a quantity declaration may stand alone [e.g., “177 mL (6 fl oz)”] or may include the term “net” or “net contents” either preceding or following the declaration. (Amended 2019)</b>	62
		Renumbered 6.3. <del>23</del> . Lines of Print or Type	62
	Table 6.5. SI Units: Mass, Measure	Placed the following sections within the table: 6.5.(f) Rule of 1000. 6.5.(g) SI declarations should be shown in three digits. 6.5.(h) the declaration of net quantity of contents shall be expressed in mixed units.	63
	6.7.(d) area measurement	Editorial correction: <del>cubic</del> <b>square</b>	66
	11.25. Pillow, Cushions, Comforters, Mattress Pads, Sleeping Bags, and Similar Products.	Department of Consumer Affairs, Bureau of <b>Household Goods and Services (BHGS)</b> ( <a href="http://bhgs.dca.ca.gov">bhgs.dca.ca.gov</a> ) <del>Electronic and Appliance Repair, Home Furnishings and Thermal Insulation (BEARHFTI)</del>	85

Law or Regulation	Section	Action	Page
<b>B. Uniform Regulation for the Method of Sale of Commodities</b>	2.4.3. Quantity.	<i>NOTE: Implementation for the requirement for use of the liter in (1) package may continue to show the <b>cubic decimeter</b> (<math>dm^3</math>) <b>level</b> instead of liters (L) for four years after the effective date of this regulation to allow for the use of current packages inventories</i>	116
	2.16.3.1. (a) Stamped or Stenciled Tare Weight	The 49 CFR 178.5035 “ <b>General Requirements for Specification Cylinders</b> ” requires the maker of cylinders to retain test reports verifying the cylinder tare weight accuracy to a tolerance of 1 %.	128
	2.28.1.2. Basis Weight	Title change: ASTM D646, “ <b>Standard Grammage of Test Method for Mass Per Unit Area of Paper and Paperboard of Aramid Papers (Basis Weight).</b> ”	134
<b>C. Uniform Unit Pricing Regulation</b>	1. Background	Updated URL to NIST SP 811 “Unit Pricing Guide a Best Practice Approach to Unit Pricing”	149
<b>G. Uniform Fuels and Automotive Lubricants Regulation</b>	1.44. Motor Octane	ASTM D2700, “ <b>Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel Motor Method Engine Test.</b> ”	190
	1.51. Research Octane Number	ASTM D2699, “ <b>Standard Test Method for Research Method Octane Number of Spark-Ignition Engine Test Fuel.</b> ”	190
	2.4. Aviation Gasoline.	2.4.(b) ASTM D6227, “Standard Specification for <del>Grade 82</del> Unleaded Aviation Gasoline <b>Containing a Non-hydrocarbon Component.</b> ”	193
	2.12. M85 Fuel Methanol.	Updated title: ASTM D5797, “Standard Specification for <del>Fuel</del> Methanol <b>Fuel Blends (M7051-M85)</b> for <b>Methanol-Capable</b> Automotive Spark Ignition Engines.”	194
	3.10.4. NFPA Labeling Requirements Also Apply.	Title added: NFPA 58, “ <b>Liquified Petroleum Gas Code</b> ”	201
	3.11.2.1.3. NFPA Labeling.	Title added: NFPA 52, “ <b>Vehicular Natural Gas Fuel Systems Code</b> ”	201

Law or Regulation	Section	Action	Page
	3.12.2.3. NFPA Labeling.	Title added: NFPA 57, " <b><u>Liquefied Natural Gas (LNG) Vehicular Fuel Systems Code</u></b> "	201
	4.3.2. Delivery of Aviation Fuel	Title change: EI 1581, "Specification and <b><u>Laboratory</u></b> Qualification Procedures for Aviation Jet Fuel Filter/ <b><u>Water</u></b> Separators."	209
<b>VI. Examination Procedure for Price Verification</b>	2.23. Universal Product Code (UPC).	Updated company address and URL	219
<b>VI. NCWM Policy, Interpretations, and Guidelines</b>	2.6.11. Good Quantity Control Practices.	10. Weighing and measuring devices are suitable for their intended purpose. <del>and measurement standards are suitable and traceable to national standards.</del> <b><u>Recognized policies and procedures are established and followed to maintain metrological traceability to the International System of Units (SI) through the NIST.</u></b> This includes a system of equipment maintenance and calibration to include recordkeeping procedures.	273