

**96<sup>th</sup> Annual Meeting of the  
National Conference on Weights and Measures**

**July 17 – 21, 2011  
Missoula, Montana**

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**Addendum Sheets to the Interim Report of the  
Laws and Regulations (L&R) Committee**

Reference  
Key Number

**200 INTRODUCTION**

The Laws and Regulations Committee (hereinafter referred to as “Committee”) submits its Interim Report to the National Conference on Weights and Measures. The Report consists of the Interim Report offered in Publication 16, “NCWM Committee Reports,” and this Addendum. Page numbers in tables below refer to pages in Publication 16.

Presented below is a list of voting and information items. Voting items are indicated by the suffix **V** or, if the voting item is part of the Consent calendar, by the suffix **VC**. If the item is informational, it is indicated by the suffix **I**; if the item is withdrawn, it is indicated by the suffix **W**. Items marked with a **D** after the key numbers are developing issues. The developing designation indicates an item has merit; however, the item is returned to the submitter for further development before any action at the national level. The Committee’s Final Report is proposed to be grouped in the following order:

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**Subject Series List**

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Uniform Laws.....	220 Series
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\*The asterisked items will not be printed in the hardcopy of Publication 16 for the meeting attendees. The appendices can be viewed online at: <http://www.ncwm.net>, or at the NIST Weights and Measures Website at: <http://www.nist.gov/pml/wmd/pubs/pub16-11.cfm>.

**Voting Items**

Separate vote of the NCWM is being requested on the following items:

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**Withdrawn Items**

The following items are withdrawn (W) and require no formal action of the NCWM:

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**Informational and Developing Items**

**The following items are informational (I) or under development (D) and require no formal action of the NCWM:**

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**Details of all Items**

**In order by Reference Key Number**

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**231 UNIFORM PACKAGING AND LABELING REGULATION (UPLR)**

**231-1 W HB130, Packaging and Labeling Requirements, Section 6, Declaration of Quantity: Consumer Products**

**No change.**

There were no comments heard during the open hearings on this agenda item.

**231-2 I HB 130, Packaging and Labeling Requirements, 6.12. Supplementary Quantity Declarations and 6.14. Qualification of Declaration Prohibited.**

**No change.**

The Committee is recommending that this be reviewed at the fall regional meetings. There was a letter received from Clorox in regards to the removal of the statement “lasts the same as” from their packaging for briquettes.

**231-3 W Packaging and Labeling Requirements, Section 9. Prominence and Placement: Non-Consumer Packages**

**No change.**

There were no comments heard on this item.

**231-4 W HB 130, Packaging and Labeling Requirements, 10.4. Multi-unit Packages.**

**No change.**

There were no comments heard on this item.

**232 METHOD OF SALE REGULATION**

**232-1 ✕ I HB 130, Method of Sale Regulation, Section 2.13.4. Declaration of Weight**

**Change from Voting Item to Informational Item**

The Committee further reviewed this item in the work session. After seeking clarification from Industry, States and reviewing letters that were submitted to the conference, the Committee feels this proposal is not ready to be voted on. The Committee would like additional information from the regions and industry for clarification on the language. It is unclear and unknown what the proper density factor is for High Density (HDPE) or similar worded products.

The Committee is recommending that this item move from Voting status to Informational status.

**232-2 I HB 130, Uniform Regulation for Method of Sale of Commodities – Packaged Printer Ink and Toner Cartridges**

**No change.**

Concerns were expressed that the ISO/IEC test procedure for yield is not a practical method of testing. The Packaged Printer Ink and Toner Cartridge subcommittee met on Sunday, July 17<sup>th</sup>. A presentation given by Industry will be included in the final report. Industry expects to attend and brief attendees at the regional meetings. The Committee would like to see additional work from the Packaged Printer Ink and Toner Cartridge subcommittee.

**232-3 V HB 130, Method of Sale Regulation, Section 1.7.2. Pelletized Ice**

**No change.**

There were no comments heard on this item.

**232-4 V HB 130, Method of Sale Regulation, Section 2.33. Vehicle Motor Oil**

No change.

A comment was heard from the floor whether it is appropriate for Section 2.33.1.3, - Brand to be included in this proposal. API and some State regulators agree that this section is important for traceability purposes. The Committee added the words “or receipt” after the word “invoice” throughout this proposal. A comment was heard to change the term “motor” to “engine”. After discussion with the FALS Chairperson it was recommended to keep the term “motor”. The Committee also feels that time needs to be granted for the implementation of this regulation so the words, “All references to invoice or receipt will be enforceable effective on July 1, 2012” were added to the proposal.

**2.33. Oil.**

**2.33.1. Labeling of Vehicle Motor Oil.**

**2.33.1.1. Viscosity. – The label on a vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the viscosity grade classification preceded by the letters “SAE” in accordance with the SAE International’s latest version of SAE J300, Engine Oil Viscosity Classification.**

**2.33.1.2. Intended Use. – The label on a vehicle motor oil container shall contain a statement of its intended use in accordance with the latest version of SAE J183, Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”).**

**2.33.1.3. Brand – The label on a vehicle motor oil container and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the name, brand, trademark, or trade name of the vehicle motor oil.**

**2.33.1.4. Engine Service Category. – The label on a vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the engine service category, or categories, met in letters not less than 3.18 mm ( $\frac{1}{8}$  in) in height, as defined by the latest version of SAE J183, Engine Oil Performance and Engine Service**

**Classification (Other than “Energy Conserving”) or API Publication 1509, “Engine Oil Licensing and Certification System.”**

**2.33.1.4.1. Inactive or Obsolete Service Categories. – The label on a vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall bear a plainly visible cautionary statement in compliance with SAE J183, Appendix A, whenever the vehicle motor oil in the container or in bulk does not meet an active API service category as defined by the latest version of SAE J183, Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”).**

**2.33.1.4.2. Tank Trucks or Rail Cars. – Tank trucks, rail cars, or other types of delivery trucks that are used to deliver vehicle motor oil are not required to display the SAE viscosity grade and service category or categories as long as the bill of lading or other documentation provides that information**

**All references to invoice or receipt will be enforceable effective on July 1, 2012.**

**(Added 201X)**

**237 ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATION**

**237-1 I HB 130, Engine Fuel Quality Requirements for Hydrogen**

**No change.**

The Committee received an update from Juana Williams, NIST Technical Advisor and U.S. National Hydrogen Work Group Representative. Below is an updated Hydrogen Fuel Quality Specification chart.

<b>Table 1. Hydrogen Fuel Quality Specification*</b>					
<b>Constituent</b>	<b>Value</b>	<b>Unit</b>	<b>Limit</b>	<b>Test Method(s)</b>	<b>Responsible Standards Committee and Status of test method</b>
Standard Practice for Gaseous Sampling				ASTM D7606-11	
1	Hydrogen Fuel Index	99.97	%	Minimum	(a)
2	Total Allowable Non-Hydrogen, Non-Helium, Non-Particulate	100.0	ppm v/v	Maximum	(b)
3	Total Non-Hydrogen Gases	300.0	ppm v/v	Maximum	(c)
4	Ammonia	0.1	ppm v/v	Maximum	ASTM D7653-10
5	Carbon Dioxide	2.0	ppm v/v	Maximum	ASTM D7653-10 ASTM D7649-10
6	Carbon Monoxide	0.2	ppm v/v	Maximum	ASTM D7653-10
7	Formaldehyde	0.01	ppm v/v	Maximum	ASTM D7653-10
8	Formic Acid	0.2	ppm v/v	Maximum	ASTM D7550-09 ASTM D7653-10
9	Helium	300.0	ppm v/v	Maximum	ASTM D1945-03

10	Nitrogen and Argon	100.0	ppm v/v	Maximum	ASTM D7649-10	
11	Oxygen	5.0	ppm v/v	Maximum	ASTM D7649-10	
12	Particulate Concentration	1.0	mg/kg	Maximum	ASTM D7650-10 ASTM D7651-10	
13	Total Halogenated Compounds	0.05	ppm v/v	Maximum	to be specified	WK 23815 under ASTM D03.14
14	Total Hydrocarbons	2.0 (d)	ppm v/v	Maximum	ASTM D7675-11	
15	Total Sulfur Compounds	0.004	ppm v/v	Maximum	ASTM D7652-11	
16	Water	5.0	ppm v/v	Maximum	ASTM D7653-10 ASTM D7649-10	
Footnotes to Table 1 –						
a. Hydrogen fuel index = Sum of all non-hydrogen gases (as % of sample) subtracted from 100 %.						
b. Total Allowable Non-Hydrogen, Non-Helium, Non-Particulate = Sum of all constituents listed on the table, except hydrogen, helium, and particulates.						
c. Total Non-Hydrogen Gases = Sum of all constituents listed on the table except hydrogen and particulates.						
d. Total Hydrocarbons may exceed 2 ppm v/v only due to the presence of methane, provided that the total gases do not exceed 300 ppm v/v.						
* The FTC’s Fuel Rating Rule (16 CFR Part 309-see the requirements in “Labeling of Alternative Fuels” at <a href="http://www.ftc.gov/bcp/edu/pubs/business/autos/bus29.shtm">http://www.ftc.gov/bcp/edu/pubs/business/autos/bus29.shtm</a> ) requires dispensers to bear a declaration of the minimum percent of hydrogen determined according to test methods described in “Standard Test Method for Analysis of Natural Gas by Gas Chromatography (ASTM D1946).						
						Updated 7/12/2011

**237-2 V HB 130, Definitions for Hydrogen Fuel for Internal Combustion Engines and Fuel Cell Vehicles**

**No change.**

There was one comment heard from a state regulator in support of this item.

**237-3 I Engine Fuels and Automotive Lubricants Regulation, Section 3.15. Biodiesel and Biodiesel Blends**

**No change.**

The FALS Committee reported that due to some unexpected circumstances little information has been developed by the subcommittee appointed under the FALS committee to work on this item. They do have plans to complete a report that will contain possible solutions to the FALS Committee at the January 2012 Interim Meeting.

**237-4 I HB 130, Engine Fuels and Automotive Lubricants Regulation, Section 2.1.2. Gasoline-Oxygenated Blends**

**No change.**

The Committee agrees with the drafted language referenced below from the FALS Committee.

2.1.1. Gasoline and Gasoline-Oxygenate Blends (as defined in this regulation). – Shall meet the most recent version of ASTM D4814 “Standard Specification for Automotive Spark-Ignition Fuel” ~~except for the permissible offsets for ethanol blends as provided in Section 2.1.3. Gasoline-Ethanol Blends.~~



~~2.1.2. Gasoline-Oxygenate Blends. — Shall contain no more than 10 volume percent ethanol. For other oxygenates, blends shall contain no more than 2.0 mass percent oxygen except fuels containing aliphatic ethers and/or alcohols (excluding methanol) shall contain no more than 2.7 mass percent oxygen.~~

~~(Added 2009)~~

~~2.1.3. Gasoline-Ethanol Blends. — When gasoline is blended with 1 to 10 volume percent ethanol, the ethanol shall meet the requirements of ASTM D4806 and the blend shall meet ASTM D4814 with the following permissible exceptions:~~

~~(a) The maximum vapor pressure shall not exceed the ASTM D4814 limits by more than 1.0 psi for:~~

~~(1) Only 9 to 10 volume percent ethanol blends from June 1 through September 15.~~

~~(2) All blends of 1 to 10 volume percent ethanol from September 16 through May 31.~~

~~(b) Until May 1, 2012, or until ASTM D4814 incorporates changes to the 50 volume percent evaporated point to account for the volatility effects of up to 10 volume percent ethanol, whichever occurs earlier, the distillation minimum temperature at the 50 volume percent evaporated point shall not be less than 66 °C (150 °F) (see Notes 1 and 2).~~

~~(c) Until May 1, 2012, or until ASTM D4814 incorporates changes to the vapor lock protection minimum temperature for Classes 1–5 to account for the volatility effects of up to 10 volume percent ethanol, whichever occurs earlier, the minimum temperature for a Vapor-Liquid Ratio of 20 for the applicable vapor lock protection class for gasoline-ethanol blends shall be as follows (see Notes 1 and 2):~~

~~(1) Class 1 shall be 54 °C (129 °F)~~

~~(2) Class 2 shall be 50. °C (122 °F)~~

~~(3) Class 3 shall be 47 °C (116 °F)~~

~~(4) Class 4 shall be 41.5 °C (107 °F)~~

~~(5) Class 5 shall be 39 °C (102 °F)~~

~~(6) Class 6 shall be 35 °C (95 °F)~~

~~All gasoline and gasoline-ethanol blends sold in Area V (as shown in ASTM D4814 Appendix Fig. X1.2) shall meet the vapor lock protection minimum temperatures in ASTM D4814.~~

~~NOTE 1: The value for the 50 volume percent evaporated point noted in Section 2.1.3.(b) and the values for Classes 1, 2, and 3 for the minimum temperature for a Vapor-Liquid Ratio of 20 in Section 2.1.3.(c) are now aligned and identical to those that are being published in ASTM D4814-09b and apply equally to gasoline and gasoline-ethanol blends. In future editions of NIST Handbook 130, Section 2.1.3.(b) will be removed editorially and the reference to Classes 1, 2, and 3 in Section 2.1.3.(c) will be removed editorially. In addition, existing Sections 2.1.3. through 2.1.7. of NIST Handbook 130 will be renumbered.~~

~~NOTE 2: The temperature values (e.g., 54 °C, 50. °C, 41.5 °C) are presented in the format prescribed in ASTM E29 “Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications.”~~

~~(Added 2009)~~

**237-5 I HB 130, Engine Fuels and Automotive Lubricants Regulation, Section 2.1.4. Minimum Motor Octane Number**

No change

NOTE: Editorial Correction in the section number: ~~2.1.4.~~ **2.1.5.** Minimum Motor Octane Number.

This item is currently being developed and monitored by the FALS Committee. The CRC is currently reviewing and analyzing the data from the CRC 660 study and additional industry data.

**237-6 V HB 130, Engine Fuels and Automotive Lubricants Regulation, Section 3.13.1. Labeling of Vehicle Motor Oil**

No change.

The Committee added the words “or receipt” after the word “invoice” throughout this proposal. A comment was heard to change the term “motor” to “engine”. After discussion with the FALS Chairperson it was recommended to keep the term “motor”. The Committee also feels that time needs to be granted for the implementation of this regulation so the words, “All references to invoice or receipt will be enforceable effective on July 1, 2012” were added to the proposal.

**3.13. Oil.**

**3.13.1. Labeling of Vehicle Motor Oil.**

**3.13.1.1. Viscosity.** – The label on ~~each container of a~~ vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the viscosity grade classification preceded by the letters “SAE” in accordance with the SAE International’s latest version of SAE J300 Engine Oil Viscosity Classification.

**3.13.1.2. Intended Use.** – The label on ~~each container of a~~ vehicle motor oil container shall contain a statement of its intended use in accordance with the latest version of SAE ~~J300~~ J183 Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”).

**3.13.1.3. Brand** – The label on a vehicle motor oil container and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the name, brand, trademark, or trade name of the vehicle motor oil.

~~**3.13.1.3.1. Exception for Quantities of One Gallon (3.785 L) or Less.** – A container of engine vehicle motor oil with a volume of 1 gal (3.785 L) or less that does not meet an active service category, as defined by the latest version of SAE J183, shall bear a plainly visible cautionary statement in compliance with SAE J183, Appendix A, for obsolete API oil categories.~~

**3.13.1.3.4. Engine Service Category.** – The label on ~~each container of a~~ vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage tank shall contain the engine service category, or categories, met in letters not less than 3.18 mm ( $\frac{1}{8}$  in) in height, as defined by the latest version of SAE J183, Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”) or API Publication 1509, “Engine Oil Licensing and Certification System.”

**3.13.1.4.1. Inactive or Obsolete Service Categories. – The label on a vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle motor engine oil dispensed from a receptacle, dispenser, or storage tank shall bear a plainly visible cautionary statement in compliance with SAE J183, Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”) Appendix A, whenever the vehicle motor oil in the container or in bulk does not meet an active API service category as defined by the latest version of SAE J183, Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”).**

**3.13.1.4.2. Tank Trucks or Rail Cars. – Tank trucks, rail cars, or other types of delivery trucks that are used to deliver vehicle motor oil are not required to display the SAE viscosity grade and service category or categories as long as the bill of lading other documentation provides that information.**

**All references to invoice or receipt will be enforceable effective on July 1, 2012.**

## **260 NIST HANDBOOK 133**

### **260-1 I HB 133, Section 2.3.8. Moisture Allowance - Moisture Loss for Products Not Listed.**

**No change.**

The Committee would like the regions to have an additional review and submit any recommend language changes. The Committee would also like to see the Moisture Loss Work Group become active at the Interim and National Meetings to help with the further development of this issue.

### **260-2 ✕ I HB 133, Chapter 4.7. Polyethylene Sheeting - Test Procedure - Footnote Step 3**

**Change from Voting Item to Informational Item**

The Committee further reviewed this item in the work session. After seeking clarification from Industry, States and reviewing letters that were submitted to the conference, the Committee feels this proposal is not ready to be voted on. The Committee would like additional information from the regions and industry for clarification on the language. It is unclear and unknown what the proper density factor is for High Density (HDPE) or similar worded products.

The Committee is recommending that this item move from Voting status to Informational status.

### **260-3 V HB 133, Section 2.3.8 Moisture Allowance - Pasta Products**

**No change.**

The Committee heard a presentation from the National Pasta Association. Industry addressed several questions and concerns from conference attendees.

### **260-4 W HB 133, Seed Count for Agriculture Seed**

**No change.**

There were no comments heard on this item.

## **270 OTHER ITEMS – DEVELOPING ITEMS**

### **270-1 D Fuels and Lubricants Subcommittee (FALS)**

**No change.**

The NIST Technical advisor informed the Committee that a draft proposal on the laboratory publication will be released by October 2011.

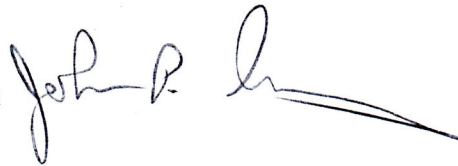
### **270-2 D Packaging and Labeling Subcommittee (PALS)**

**No change.**

The PALS Committee was unable to meet at the July 2012 due to the absence of the Chair, Chris Guay. Mr. Guay has requested that anyone that would like to participate in this subcommittee please contact him.

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Mr. John Gaccione, Westchester County, New York, Chairman  
Mr. Joe Benavides, Texas  
Ms. Jonelle Brent, Illinois  
Mr. Raymond Johnson, New Mexico  
Mr. Tim Lloyd, Montana



Mr. Ron Hayes, Missouri, Chairman FALS

Mr. Lance Robertson, Canada, Technical Advisor  
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