# Report of the Laws and Regulations (L&R) Committee

John Gaccione, Chairman Westchester County, New York

Reference Key Number

## 200 INTRODUCTION

This is the report of the Laws and Regulations Committee (hereinafter referred to as the "Committee") for the 96<sup>th</sup> Annual Meeting of the National Conference on Weights and Measures (NCWM). This report is based on the Interim Report offered in the NCWM Publication 16, "Committee Reports," testimony at public hearings, comments received from the regional weights and measures associations and other parties, the NCWM 2011 Online Position Forum, the addendum sheets issued at the Annual Meeting, and actions taken by the membership at the voting session of the Annual Meeting. The Informational items shown below were adopted as presented when this report was approved.

Table A identifies the agenda items and appendix items. The agenda items in the Report are identified by Reference Key Number, title, and page number. The first three digits of the Reference Key Numbers of the items are assigned from the subject series listed below. Voting items are indicated with a "V" after the item number. Items marked with an "I" are Informational. Items marked with a "D" are Developing items. The developing designation indicates an item has merit; however, the item is returned to the submitter for further development before any further action is taken by the Committee. Items marked "W" have been Withdrawn from consideration. Table B provides a list of acronyms used in this report, and Table C provides a summary of the results of the voting on the Committee's items and the report in its entirety.

This report contains recommendations to amend National Institute of Standards and Technology (NIST) Handbook 130, 2011 Edition, "Uniform Laws and Regulations," or NIST Handbook 133, "Checking the Net Contents of Packaged Goods," Fourth Edition (January 2011). Proposed revisions to the handbook(s) are shown in **bold face print** by **striking out** information to be deleted and **underlining** information to be added. New items proposed for the handbooks are designated as such and shown in **bold face print**. Text presented for information only is shown in *italic* print. When used in this report, the term "weight" means "mass."

**Note:** The policy of NIST is to use metric units of measurement in all of its publications; however, recommendations received by the NCWM technical committees have been printed in this publication as they were submitted and, therefore, some may contain only reference to inch-pound units.

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Table B Glossary of Acronyms and Terms

Acronym	Term	Acronym	Term	
AOSA	Association of Official Seed Analyst	NBB	National Biodiesel Board	
API	American Petroleum Institute	NCWM	National Conference on Weights & Measures	
ASTM	American Society for Testing and Materials International	NEWMA	Northeastern Weights & Measures Association	
CFR	Code of Federal Regulations	NIST	National Institute of Standards & Technology	
CNG	Compressed Natural Gas	OEM	Original Equipment Manufacturer	
CWMA	Central Weights & Measures Assn.	P&G	Procter and Gamble	
CRC	Coordinating Research Council	PALS	Packaging and Labeling Subcommittee	
FALS	Fuels and Lubricants Subcommittee	PDP	Principal Display Panel	
FDA	Food and Drug Administration	§	Section Symbol	
FD&C Act	Food Drug and Cosmetic Act	SAE	Society of Automotive Engineers	
FPLA	Fair Packaging and Labeling Act	SI	International System of Units	
FSS	Fuel Specifications Subcommittee	SWMA	Southern Weights & Measures Association	
FTC	Federal Trade Commission	TG	Task Group	
HB 130	NIST Handbook 130, Uniform  Laws and Regulations in the areas of Legal Metrology and Engine Fuel Quality		Uniform Packaging and Labeling Regulation	
HB 133	NIST Handbook 133, Checking the Net Content of Packaged Goods		U.S. Environmental Protection Agency	
HDPE	High Density Polyethylene	USDA	U.S. Department of Agriculture	
ISO	International Organization for Standardization	USNWG	U.S. National Work Group	
L&R	Laws and Regulations	WG	Work Group	
LLPD	Linear Low Density Polyethylene	WMD	NIST Weights & Measures Division	
MLWG	MLWG Moisture Loss Work Group		Western Weights & Measures Association	

Table C Voting Results

Reference Key Number		of State entatives	Hou Dele	Results	
Number	Yeas	Nays	Yeas	Nays	
232-3	31	0	32	0	Passed
232-4	22	7	23	9	Failed
237-6	22	8	22	10	Failed
260-3	17	11	26	5	Failed

# **Details of all Items** (In order by Reference Key Number)

## 231 UNIFORM PACKAGING AND LABELING REGULATION (UPLR)

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

(This item was Withdrawn.)

**Source:** Northeastern Weights and Measures Association (NEWMA)

**Purpose:** To allow manufacturers to develop multilingual labels. This item would permit manufacturers to use approved symbols on consumer packages.

**Item Under Consideration:** Amend HB 130 Packaging and Labeling Regulations, Section 6: Declaration of Quantity: Consumer Packages, addition to 6.4.1. Combination Declaration:

## **Numerical Count**

## Numerical count can be expressed as either:

- (a) alpha-numeric characters (Figure A); or
- (b) <u>alpha-numeric characters in conjunction with an approved symbol of the commodity from Section 6.7.1 (Figure B).</u>

3 Razors

(Figure A)



Amend HB 130 Packaging and Labeling Regulations, Section 6: Declaration of Quantity: Consumer Packages, Section 6.7.1., Symbols and Abbreviations (Figure C).



**Background/Discussion:** A representative of Procter and Gamble (P&G) submitted a proposal at the 2009 NEWMA Interim Meeting held in Springfield, Massachusetts. This proposal is to amend the language in HB 130 Packaging and Labeling Regulation, Section 6 that will facilitate value comparisons for a diverse set of consumers. It is proposed to amend the net content declaration of content for consumer products labeled only with a count, to allow for the use of approved symbols. According to P&G, this will limit the language of net content information, especially products with multi-language declarations, making the statement more noticeable to the eye. In addition, labels that are intended towards consumers whose first language is not English will benefit from knowing the content visually versus by text. P&G states that by ensuring the net content information is more noticeable; consumers will be more likely to make value comparisons.

P&G cites 21CFR 201.15 (c)(2); this requirement formally applies to over the counter drug products, but absent guidance for other categories of products subject to the Food Drug and Cosmetic Act (FD&C Act) and Food

Packaging and Labeling Act (FPLA). This provides the best guidance principles for manufacturers to develop compliant multilingual labels. P&G states that net content translation and package size considerations can make a compliant statement difficult to understand.

Language extracted from 21 CFR 201.15:

- (c)(1) All words, statements, and other information required by or under authority of the act to appear on the label or labeling shall appear thereon in the English language: *Provided, however*, that in the case of articles distributed solely in the Commonwealth of Puerto Rico or in a Territory where the predominant language is one other than English, the predominant language may be substituted for English.
- (2) If the label contains any representation in a foreign language, all words, statements, and other information required by or under authority of the act to appear on the label shall appear thereon in the foreign language.
- (3) If the labeling contains any representation in a foreign language, all words, statements, and other information required by or under authority of the act to appear on the labeling shall appear on the labeling in the foreign language.

At the 2009 NEWMA Interim Meeting held October 12 - 15, 2009, in Springfield, Massachusetts, the NEWMA L&R Committee recommended this proposal be a Developing item.

At the 2010 NCWM Interim Meeting held in Nashville, Tennessee, Mr. Chris Guay, P&G, provided an explanation that in Europe, products sold by count are using pictograms in the net content declaration and the package could be considered multi-language. This system would allow for industry to develop one package that can be used in several different countries without having to develop packaging for one specific language. An official urged that this be a Developing item to see if pictograms could be acceptable.

The Committee would like to see this item go through all the regions (NEWMA, CWMA, WWMA, and SWMA) for review and comment. The Committee requested from Mr. Guay, an approved set of international pictograms and further information on the labeling requirements (FPLA). The NIST Technical Advisor will also research the pictograms for any conflicts with other Federal Laws and Regulations. The NIST Technical Advisor met with the Federal Trade Commission (FTC) on February 26, 2010, to seek their assistance in reviewing this proposal. The L&R Committee agreed that this should be a Developing item.

At the 2010 NEWMA Annual Meeting held in Groton, Connecticut, in May 2010, there were no comments heard on this item. The NEWMA L&R Committee agreed that this item should remain as a Developing item until further information is made available. The NIST Technical Advisor has not heard back from FTC regarding this issue.

At the 2010 CWMA Annual Meeting held in Springfield, Illinois, in May 2010, an industry representative mentioned that there are several issues with this proposal: the Federal Drug Administration (FDA) will need to update labeling regulations, changing demographics, and international marketing of products requiring information in several languages. Regulations need to be put in place to either prohibit this practice or to establish guidelines and regulations. An inspector commented that the use of pictographs is currently in the marketplace, and it is considered a violation in their jurisdiction.

At the NCWM Annual Meeting held in St. Paul, Minnesota, on July 12 - 15, 2010, no comments were received on this item.

At the 2010 CWMA Interim Meeting held in Rock Island, Illinois, an industry representative provided an explanation that the use of pictographs is already appearing in the marketplace. Due to limited space restrictions on packages, pictographs are preferred over the use of multiple languages. It was commented that this is an acceptable practice in Europe, where several languages may be required on products. The CWMA L&R Committee

recommends that the NCWM L&R seek further guidance from FDA and FTC, and that this be an Informational item.

At the 2010 WWMA Annual Meeting held in Olympia, Washington, a manufacturer representative stated that several large manufacturers are currently using pictograms on packages. The representative is asking for guidance and language from the NCWM L&R as to the acceptable practice of using pictograms. A county and state official questioned how "acceptable" pictograms, if approved, would be controlled. Questions were raised on who would maintain, approve, and standardize these pictograms. They further stated that use of a pictogram should not replace current language for net quantity. The WWMA L&R Committee recommends that use of a pictogram be supplemental, if used, and not part of the net quantity statement. The WWMA L&R Committee would like to see additional information on the international use of pictograms. The WWMA L&R Committee recommends that this be a Developing item, in order for the NCWM L&R Committee to seek guidance from the FTC.

At the 2010 SWMA Annual Meeting held in Columbia, South Carolina, there were no comments heard during open hearings. The SWMA L&R Committee would like to see a database of approved pictographs, and would also like to know who would be responsible for updating, maintaining, and disseminating this information to the states. The SWMA L&R Committee recommends that this item move forward as a Developing item.

At the 2010 NEWMA Interim Meeting held in Norwich, Connecticut, there were no comments heard on this item. The NEWMA L&R Committee recommends that this be a Developing item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Chris Guay, P&G, stated that in Europe many products, sold by count, are using pictograms in the net content declaration. This type of packaging could be considered multi-lingual. There are currently packages in the U.S. marketplace, from Fortune 500 companies, that are using only icons on their packages to declare net quantities and no action is taken against those in violation. Mr. Guay explained that acceptance of this proposal would enable industry to develop one package that could be used in several different countries. Companies are modifying their approach in packaging in order to meet consumer needs. Mr. Guay remarked that currently the law suggests that icons cannot be used. Several visuals were presented of icons found in the marketplace, and the Committee agreed that the symbols used on the samples would most likely not be understood by consumers and they are confusing to what they are, mean, and represent.

The NIST Technical Advisor stated that if voted on and approved, a request for an "icon" database along with an approval system would need to be developed. A state official reported that the NCWM Board of Directors formed a Subcommittee identified as the Packaging and Labeling Subcommittee (PALS) under the L&R to address these types of issues. Mr. Guay was nominated to Chair this Subcommittee.

The L&R Committee believes the intent of the FPLA is to have the net contents statement on packing in the English language and does not allow for pictures, icons, and similar type declarations. The Committee recommends that the item be Withdrawn. The Committee further recommends that if Procter and Gamble decides to develop a similar proposal in the future that it be considered by the Packaging and Labeling Subcommittee (PALS) to determine if there is industry wide support for the use of symbols in lieu of text for the quantity declaration statement.

At the 2011 NEWMA and CWMA Annual Meetings, there were no comments heard on this item. Both regions recommended that this item be Withdrawn.

At the 2011 NCWM National Meeting held in Missoula, Montana, there were no comments heard on this item.

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

**Source:** Central Weights and Measures Association (CWMA)

**Purpose:** Provide clearer language to help guide industry and state officials when federal agencies are inconsistent in their interpretations, and this proposal provides better guidance.

#### **Item Under Consideration:**

- **6.12. Supplementary Quantity Declarations.** The required quantity declaration may be supplemented by one or more declarations of weight, measure, or count, such declaration appearing other than on a principal display panel. Such supplemental statement of quantity of contents shall not include any term qualifying a unit of weight, measure, or count that tends to exaggerate the amount of commodity contained in the package (e.g., "giant" quart, "larger" liter, "full" gallon, "when packed," "minimum," "equivalent," "lasts the same as," or words of similar import).
- **6.14.** Qualification of Declaration Prohibited. In no case shall any declaration of quantity be qualified by the addition of the words "when packed," "minimum," or "not less than," "equivalent," or "lasts the same as," or any words of similar import (e.g., "approximately"), nor shall any unit of weight, measure, or count be qualified by any term (such as "jumbo," "giant," "full," or the like) that tends to exaggerate the amount of commodity.

(Amended 1998)

**Background/Discussion:** Manufacturers are using the terms "equivalent" or "lasts the same as" to qualify net weight statements. Clearer language is needed to provide consumers with better information. Industries and state officials need better guidance for product labeling. Currently FTC does not consider the terms "equivalent," or "lasts the same as" exaggerated or misleading.

At the 2010 CWMA Interim Meeting, a state regulator presented an example of a label (refer to Appendix A) that was perceived as mislabeled. It was agreed that no conflicting information regarding the net weight statement should be in the lower one-third of the principal display panel (PDP). The CWMA L&R Committee recommends that this move forward as a Voting item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, it was reported that this language was lifted straight out of the Fair Packaging and Labeling Act (FPLA), and if modified states could run into problems with their investigations. A NIST Technical Advisor stated that language "lasts the same as" or "equivalent" is in the marketplace, which may be misleading to consumers. The Committee was reminded that the lower 30 % should be free of supplementary quantity declarations as specified in Section 6.12 in the UPLR.

The Committee would like to see this issue go to all regions for comment. The NIST Technical Advisor remarked that the section was amended in 1998 to include the term "approximately" (which is not included in the Federal Regulations) as a prohibited term. There has been no indication that the differences between the UPLR and Federal Regulations are being challenged. It was also recommended that FTC be notified that this is an issue before the Conference. The Committee recommends that the item under consideration be Informational.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, there was a recommendation to obtain additional data from the submitter of the proposal along with clarification from the Federal Trade Commission on their letter dated November 4, 2010 (refer to the Report of the 96<sup>th</sup> Annual NCWM Conference [SP1125, 2012], Appendix A). No additional comments were heard on this item. The NEWMA L&R Committee recommended that this item be Informational.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, the submitter of the proposal commented that the terms "last the same as" and "equivalent to" are not quantity statements and should not be in the net quantity of the principle display panel area. The CWMA L&R Committee finds that this will be helpful for enforcement issues and recommended that this item be Informational.

At the 2011 NCWM National Meeting held in Missoula, Montana, there were no comments heard on this item. The Committee received a letter (refer to Appendix A) from Clorox, stating the term "lasts the same as" is being removed from their packaging. The Committee would like to receive additional input from the fall 2011 Regional meetings on this item.

# 231-3 W HB 130, Packaging and Labeling Requirements, Section 9. Prominence and Placement: Non-Consumer Packages

(This item was Withdrawn.)

Source: Western Weights and Measures Association

**Purpose**: Modify HB 130 – UPLR, Section 9.2. Prominence and Placement: Non-consumer packages, add a minimum height requirement.

#### **Item Under Consideration:**

#### Section 9. Prominence and Placement: Non-consumer Packages

- **9.1. General.** All information required to appear on a non-consumer package shall be definitely and clearly stated thereon in the English language. Any required information that is either in hand lettering or hand script shall be entirely clear and equal to printing in legibility.
- 9.2. Minimum Height of Numbers and Letters. The height of any letter or number in the quantity declaration on a non-consumer package shall not be less than that shown in Table 1 with respect to the area of the panel and the height of each number of a common fraction shall meet one-half the minimum height standards. When upper and lower case or all lowercase letters are used in SI symbols, it is the uppercase "L," lowercase "d," or their equivalent in the print or type that shall meet the minimum height requirement. However, no letter shall be less than 1.6 mm (\frac{1}{16} in) in height. Other letters and exponents must be presented in the same type style and in proportion to the type size used.

**Background/Discussion:** At the 2010 WWMA Annual Meeting, a county weights and measures official commented that same requirement for consumer and non-consumer packages should exist. They have found quantity declarations on non-consumer packages that were in a font size that was so small, it was easily missed. By requiring a minimum font size for the quantity declaration on these packages, weights and measures officials will have an easier time being able to evaluate labels for FPLA requirements and follow-up on short measure packages.

The NIST Technical Advisor noted that under the FPLA and U.S. Department of Agriculture (USDA) regulations, there are no minimum height requirements for non-consumer packages; this proposal raises the potential for conflict, which may result in federal preemption. It was also noted that defining the term "definitely and clearly stated" by a qualifying statement that it be a minimum 1.6 mm ( $^{1}$ / $_{16}$  in) in height could nullify its meaning. It was further mentioned that the term "definitely and clearly stated" affects free area, style of type or lettering, minimum height of letters and numbers, and proportion of numbers and letters for non-consumer packages. The WWMA L&R Committee recommends that this item move forward as a Voting item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, the Committee agreed to withdraw this item over concern that its adoption would impose unjustified and costly new requirements on non-consumer packages. The new provisions would be in direct conflict with packaging and labeling regulations for non-consumer packages issued by the FTC, FDA, and USDA.

At the 2011 NEWMA and CWMA Annual Meetings, there were no comments heard on this item. Both regions recommended this item be Withdrawn.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, there were no comments heard on this item.

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

(This item was Withdrawn.)

Source: Central Weights and Measures and Procter and Gamble

Purpose: Provide specific language and more than one way in defining the labeled net contents for multi-packs.

# **Item Under Consideration:**

- **10.4. Multi-unit Packages.** [NOTE 7, page 78] Any package containing more than one individual "commodity in package form" (see Section 2.1. Package) of the same commodity shall bear on the outside of the package a declaration of:
  - (a) the number of individual units;
  - (b) the quantity of each individual unit; and
  - (c) the total quantity of the contents of the multi-unit package.

#### Example:

Soap bars, 6 Bars, Net Wt 100 g (3.53 oz) each Total Net Wt 600 g (1.32 lb).

The term "total" or the phrase "total contents" may precede the quantity declaration.

A multi-unit package containing unlabeled individual packages which are not intended for retail sale separate from the multi-unit package, may contain, in lieu of the requirements of Section (a), a declaration of quantity of contents expressing the total quantity of the multi-unit package without regard for inner packaging. For such multi-unit packages, it shall be optional to include a statement of the number of individual packages when such a statement is not otherwise required by the regulations.

# **Examples**:

Deodorant Cakes:

5 Cakes, Net Wt 113 g (4 oz) each, Total Net Wt 566 g (1.25 lb); or

5 Cakes, Total Net Wt 566 g (1 lb 4 oz)

Soap Packets:

10 Packets, Net Wt 56.6 g (2 oz) each, Total Net Wt 566 g (1.25 lb); or Net Wt 566 g (1 lb 4 oz); or

10 Packets, Total Net Wt 566 g (1 lb 4 oz)

(Amended 1993)

(d) The net content statement for a multi-unit package may have either metric or inch pounds appear first. Since the secondary unit on the primary package is often a rounded value, the difference between primary and secondary declaration is multiplied by the number of individual units in the multi-unit package. Multi-unit product net content declarations may either multiply both primary and secondary units by the number of units in the multi-unit package or multiply the primary declarations by the number of units and convert (and round) this quantity.

(Added 201X)

**NOTE 7:** For foods, a "multi-unit" package means a package containing two or more individually packaged units of the identical commodity in the same quantity, intended to be sold as part of the multi-unit package but labeled to be individually sold in full compliance with this regulation. Open multi-unit retail food packages under the authority of the Food and Drug Administration or the U.S. Department of Agriculture that do not obscure the number of units or prevent examination of the labeling on each of the individual units are not

required to declare the number of individual units or the total quantity of contents of the multi-unit package if the labeling of each individual unit complies with requirements so that it is capable of being sold individually. (See also Section 11.11. Soft Drink Bottles and Section 11.12. Multi-Unit Soft-Drink Bottles.) (Added 1984)

**Background/Discussion:** This proposal was submitted by Mr. Guay with P&G. Mr. Guay is requesting a valid way for defining the labeled net contents for a multi-pack (multiples of the same product, packaged together). One approach allows for the inch-pound units and metric units from a single package to be multiplied by the number of packages within the multi-pack. Multiplying both values by the number of units compounds the rounding error of a single package. This would cause the content/weight statement to be inaccurate. However, this would be a consumer-friendly approach.

The second approach would allow the first declaration (either inch-pound units or metric units) from a single package to be multiplied by the number of packages in the multi-pack and the primary value is converted to the secondary unit. This approach is more accurate than the first approach.

Example of the net contents for 15 pack of Tide:

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15 x 1.2 L =18.0 L =18000 mL
15 x 40 FL OZ = 600 FL OZ
18 L (600 FL OZ)
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Or

18000 mL x 1 FL OZ divided by 29.5735 mL = 608.653 FL OZ **18 L (608 FL OZ)** 

Compare the two: 18 L (608 FL OZ) vs. 18 L (600 FL OZ)

At the 2010 CWMA Interim Meeting, the submitter of this proposal submitted the language in the section "Item under Consideration." He mentioned that they are being fined in some states for labeling issues. The CWMA L&R Committee recommends that the language submitted be considered by the NCWM L&R Committee.

At the 2010 WWMA Annual Meeting, a manufacturer stated that they have been fined by a state regarding the method used to calculate total net weight on multi-unit packages. The manufacturer stated that one method is consumer-friendly while the other is more accurate. The manufacturer is seeking input on the merit of this item before submitting specific language. A county official explained that whatever method is used, neither may overstate the actual net content. This historically has been the preferred method rather than requiring an exact conversion. The WWMA L&R Committee agrees that this is clearly permitted based on HB 130, UPLR, Section 6.13. Rounding that states, "in no case shall rounded net content declarations overstate a quantity; the packer may round converted values down to avoid overstating the net contents." The WWMA L&R Committee recommends that this item be Withdrawn.

At the 2010 SWMA Annual Meeting and the 2010 NEWMA Interim Meeting, both of these member states voted to recommend that this item be Withdrawn because existing guidance in HB 130 Section 6.13. is deemed sufficient to address the issue raised.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Guay, P&G explained to the Committee that he submitted this proposal because of citations that they were receiving from one state. That state claimed that the product is less accurate with the current practice that P&G uses on their labeling. Mr. Guay stated his proposal will add additional guidance to current regulations. The Fair Packaging and Labeling Act (FPLA) requires dual units to be in inch-pound and metric (SI). When rounding the numbers, there is a considerable difference on multi-pack units. This item was considered at the meetings of two regional associations. Both regions determined that the

current language in HB130, Section 6.13. is adequate to address this issue. The Committee concurs with the conclusion of the regional association and withdrew this item.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, there were no comments heard on this item. The NEWMA L&R Committee does not see a need to have such a proposal because there are regulations currently in place. NEWMA recommended that this item be Withdrawn.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, there were no comments heard on this item. The CWMA L&R Committee recommended that this item be Withdrawn.

At the 2011 NCWM National Meeting held in Missoula, Montana, 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

(This item was removed from Voting status, and the Committee determined that additional work needs to be done, and returned it to Informational status.)

**Source:** Western Weights and Measures Association (WWMA)

**Purpose:** Update HB 130, Section 2.13.4. to provide new density values for heavier density plastics that are currently in the marketplace.

**Item under Consideration:** Amend HB 130, Method of Sale Regulation, Section 2.13.4. as follows:

**2.13.4. Declaration of Weight.** – The labeled statement of weight for polyethylene sheeting and film products under Sections 2.13.1.1. Sheeting and Film, and 2.13.3.1. Bags, shall be equal to or greater than the weight calculated by using the formula below. The final value shall be calculated to four digits, and declared to three digits, dropping the final digit as calculated (for example, if the calculated value is 2.078 lb, then the declared net weight shall be 2.07 lb).

For SI dimensions:

 $M = T \times A \times D/1000$ , where:

M = net mass in kilograms

T = nominal thickness in centimeters

A = nominal length in centimeters times nominal width [NOTE 6, page 122] in centimeters

D = density in grams per cubic centimeter as determined by ASTM Standard D1505 68, Standard Method of Test for Density of Plastics by the Density Gradient Technique (or latest issue)

For the purpose of this regulation, when D is not known, the minimum density (D) used to calculate the target net weight for linear low polyethylene products (LLPD) and products other than high density (HDPE) shall be 0.92 g/cm<sup>3</sup> (when D is not known).

For products labeled High Density (HDPE) or similar wording, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm<sup>3</sup>.

For inch-pound dimensions:

 $W = T \times A \times 0.03613 \times D$ , where:

W = net weight in pounds;

T = nominal thickness in inches;

A = nominal length in inches times nominal width [NOTE 6, page 122] in inches;

D = density in grams per cubic centimeter as determined by ASTM Standard D1505 68, Standard Method of Test for Density of Plastics by the Density Gradient Technique (or latest issue); and 0.03613 is a factor for converting g/cm<sup>3</sup> to lb/in<sup>3</sup>.

For the purpose of this regulation, the minimum density shall be 0.92 g/cm<sup>3</sup>.

(Added 1977) (Amended 1980, 1982, 1987, 1989, 1990, and 1993, and 201X)

**NOTE 6:** The nominal width for bags in this calculation is twice the labeled width.

**Background/Discussion:** It was stated at the 2009 WWMA Annual Meeting in Los Cruces, New Mexico, that manufacturers and distributors of polyethylene bags are using the calculated target weight identified in HB 130 Section 2.13.4. to understate the net quantity of their labels. The polyethylene industry recognizes a density value of 0.92 g/cm³ for linear low density polyethylene (LLDP) products. When 0.92 g/cm³ is used to calculate the target net weight of high density polyethylene (HDPE), the product may make the target net weight. However, when the appropriate density value of 0.95 g/cm³ is used to test HDPE, the product often fails to meet the calculated target net weight. Further testing reveals than one or more of the labeled width, thickness, or count statements are inaccurate. It appears that some manufacturers are aware that weights and measures officials are restricted to testing HDPE product using the 0.92 g/cm³ value, because the actual density value is not stated on the product label. Existing procedural guidelines do not address HDPE materials. When testing at manufacturing locations, weights and measures officials are able to obtain information regarding the density of the product directly from the manufacturer. However, at distributor locations density information is not available and officials must test using the 0.92 g/cm³ value designated in HB 130 and HB 133 to verify the weight of the product. When the product has no net weight statement on the package, 0.92 g/cm³ is the only factor that the inspector may use to calculate the target net weight.

Initial proposal as submitted in 2009

Amend HB 130, Method of Sale Regulation, Section 2.13.4. as follows:

**2.13.4. Declaration of Weight.** – The labeled statement of weight for polyethylene sheeting and film products under Sections 2.13.1.1. Sheeting and Film, and 2.13.3.1. Bags, shall be equal to or greater than the weight calculated by using the formula below. The final value shall be calculated to four digits, and declared to three digits, dropping the final digit as calculated (for example, if the calculated value is 2.078 lb, then the declared net weight shall be 2.07 lb).

For SI dimensions:

 $M = T \times A \times D/1000$ , where:

M = net mass in kilograms

T = nominal thickness in centimeters

A = nominal length in centimeters times nominal width [NOTE 6, page 122] in centimeters

D = density in grams per cubic centimeter as determined by ASTM Standard D1505 68, Standard Method of Test for Density of Plastics by the Density Gradient Technique (or latest issue)

For the purpose of this regulation, when **D** is not labeled on the package, known, the minimum density (**D**) used to calculate the target net weight for linear low density polyethylene products (LLPD) and products other than high density (HDPE) shall be 0.92 g/cm<sup>3</sup> (when **D** is not known). For products labeled High

# <u>Density (HDPE)</u> or similar wording, which does not specify the minimum density (D) on the package label, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm<sup>3</sup>.

For inch-pound dimensions:

 $W = T \times A \times 0.03613 \times D$ , where:

W = net weight in pounds;

T = nominal thickness in inches;

A = nominal length in inches times nominal width [NOTE 6, page 122] in inches;

D = density in grams per cubic centimeter as determined by ASTM Standard D1505 68, Standard Method of Test for Density of Plastics by the Density Gradient Technique (or latest issue); and 0.03613 is a factor for converting g/cm<sup>3</sup> to lb/in<sup>3</sup>.

For the purpose of this regulation, the minimum density shall be 0.92 g/cm<sup>3</sup>.

(Added 1977) (Amended 1980, 1982, 1987, 1989, 1990, and 1993, and 201X)

NOTE 6: The nominal width for bags in this calculation is twice the labeled width.

The 2009 WWMA Association supports the following item and recommends that it be a Voting item:

**2.13.4. Declaration of Weight.** – The labeled statement ...

For the purpose of this regulation, the minimum density shall be 0.92 g/cm<sup>3</sup> (when D is not known). For the purpose of this regulation, the minimum density shall be 0.92 g/cm<sup>3</sup>.

Amend Section 2.13.4. Declaration of Weight as follows:

For the purpose of this regulation, when D is not known, the minimum density (D) used to calculate the target net weight for linear low polyethylene products (LLDP) and products other than high density (HDPE) shall be 0.92 g/cm<sup>3</sup> (when D is not known). For products labeled "High Density," HDPE, or similar wording, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm<sup>3</sup>.

The NEWMA L&R Committee reviewed this item at its 2009 Interim Meeting and recommends that this proposal be a Developing item.

At the 2010 NCWM Interim Meeting held in Nashville, Tennessee, the Committee heard support for the density factor changing from 0.92 g/cm³ to 0.95 g/cm³ on this item. A California county commissioner indicated that the information provided by the WWMA was data extracted from Internet searches. Manufacturers are complaining that under current practice they cannot compete fairly.

Mr. Jackelen from Berry Plastics urged the Committee to reject this proposal. Mr. Jackelen stated that 0.92g/cm³ density currently works for manufacturers and that changing it to 0.95 g/cm³ will cause undue cost and waste. Most manufacturers do not make high density (HD) bags, but are producing blends. According to Mr. Jackelen, another reason to reject the proposal is if the 0.95 g/cm³ bag is punctured, it continues to tear.

A state official commented that if you use the term HD, then you are bound by the 0.95 g/cm³. If you use the length x width x thickness x density to determine the net weight, then the density value needs to be added on the package labeling. A state official said that manufacturers should consider disclosing the density factor on every product as part of the labeling. It was voiced that if there are questions about an absolute 0.95 g/cm³ density, then there should be an alternative.

Another state official commented that the 0.95 g/cm³ will be factored in only when the density is not known. The Committee received letters that were reviewed on this item. The Committee recommended moving the item under consideration forward as a Voting item.

At the 2010 NEWMA Annual Meeting in Groton, Connecticut, there was concern that there appears to be a lack of data on this item. It was never reviewed by all regions and also not presented to industry to seek comments. The NEWMA L&R Committee felt that this item was not an emergency and would like to review comments received from all the regions and industry.

At the 2010 CWMA Annual Meeting in Springfield, Illinois, the CWMA L&R Committee heard no comments on this item and recommends moving it forward as a Voting item.

At the 2010 NCWM National Meeting in St. Paul, Minnesota, the Committee heard from Mr. Jackelen (refer to Appendix B) who opposed this item and requested that it be Withdrawn. Mr. Jackelen believes this proposal will have a detrimental effect because can liners are made of natural gas and oil and the cost of these two items are increasing. Currently, the 0.92 g/cm³ is an established practice in industry and the marketplace, and is used to set the bottom weight Changing this density will cause confusion. Mr. Jackelen clarified that high density (HD) does not mean it is a better density. There are other linear bags that have higher quality than HD. As far as sustainability, if 0.95 g/cm³ is the established requirement it will cause an additional 12 million pounds of trash to be generated.

An official countered that the intent of this proposal is to provide the inspectors with information. There is fraud in the marketplace on these types of items and additional information is warranted. A director recommends that a minor amendment be done to the item under consideration, and insert "for products labeled HD when the D is not on the package label use 0.95 g/cm³." Also, use a similar statement "if the packer or manufacturer does not disclose the density then use 0.95 g/cm³." The director pointed out that it is not the role of the Conference to address quality issues, but to have a level playing field for inspectors to test a product. Another official remarked that companies need to identify their product on the container, and inspectors will use what density is disclosed.

The Committee received one letter asking for the withdrawal of this proposal and California submitted material safety data sheets from several companies (refer to Appendix B). The Committee considered comments received and agreed that more work was needed so the item was changed to Informational status.

At the 2010 CWMA Interim Meeting, there were no comments heard on this item. The CWMA L&R Committee recommends that this item remain Informational.

At the 2010 WWMA Annual Meeting, a state official commented that 10 companies have filed complaints concerning products being mislabeled, where the density was unknown. A state official submitted new language to replace a portion of language within the item under consideration. Two county officials spoke in support of the amended item, which would assist weights and measures officials in the field. A county official submitted a letter of support. The WWMA L&R Committee recommends that the amended language move forward as a Voting item. The WWMA L&R Committee also recommends that additional language be inserted for SI dimensions.

Amend Section 2.13.4. Declaration of Weight as follows:

For the purpose of this regulation, when D is not labeled on the package, known, the minimum density (D) used to calculate the target net weight for linear low density polyethylene products (LLPD) and products other than high density (HDPE) shall be 0.92 g/cm<sup>3</sup> (when D is not known). For products labeled High Density (HDPE) or similar wording, which does not specify the minimum density (D) on the package label, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm<sup>3</sup>.

At the 2010 SWMA Annual Meeting held in Columbia, South Carolina, there were no comments heard on this item. The SWMA L&R Committee would like to seek additional comments from industry, other than material safety data sheets (refer to Appendix A in this report). The SWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2010 NEWMA Interim Meeting held in Norwich, Connecticut, they noted that this proposal is confusing and that additional work needs to be done to clarify the impact of the proposed changes on manufacturers and consumers. The NEWMA L&R Committee recommends this move forward as a Developing item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Mike Jackelen, Berry Plastics, stated this item as written will have a detrimental effect on the industry due to the high cost of plastics. Mr. Jackelen further explained that high density plastics are of higher quality, but are of a thinner gauge which subjects it to tearing. A state regulator stated the WWMA recommended a change to the language for specifying that only when the density is not known or not labeled then the 0.95 g/cm³ would apply.

The Committee agreed that adding a requirement which gives the manufacturer the option of providing the actual density of the plastic provides flexibility for industry and will assist weights and measures officials to ensure the accuracy of quantity declarations. The Committee recommends the revised language under consideration from the WWMA move forward as a Voting item.

At the 2011 NEWMA and CWMA Annual Meetings, there were no comments heard on this item. Both regions recommended this item be a Voting item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, it was noted that there is a corresponding test procedure proposal on the agenda under Item 260-2. Mr. Mike Jackelen, Berry Plastics, stated that if such a proposal passes it would have a detrimental effect on the plastics industry. This product is currently being made from oil and gas, both of which prices have skyrocketed. By adopting the 0.95 g/cm³ density, an additional 12 million pounds of plastics would be added into the marketplace and ultimately landfills at current productions rates. Current industry practice is 0.92 g/cm³ for high density polyethylene. Introducing a change will only confuse the marketplace. A director spoke in support of this proposal saying it will give weights and measures officials a tool to check non-consumer packages. It was emphasized that "D" could be stated on the product, but, if not, officials need a density factor in order to conduct inspections. This director also reminded everyone that this issue is about accuracy and not quality. Another director expressed concern with the term "when D is not known." Currently 0.92 g/cm³ is the lower density rating, when "D" is not known, the proposed language will allow industry to use densities lower than 0.92 g/cm³. A letter from industry was received stating that 0.95 g/cm³ may not represent the density of HDPW currently in the marketplace (refer to Appendix B.). Industry indicated that 0.948 g/cm³ is a more accurate factor. The Committee believes that additional data from industry needs to be received on the density factors before proceeding with this item. The Committee returned this item back to Informational status.

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

**Source:** Southern Weights and Measures Association (SWMA)

**Purpose:** This proposal is to clarify the labeling requirements for industry, consumers and weights and measures officials.

#### **Item Under Consideration:**

## 2.XX. Printer Ink and Toner Cartridges Labeling.

## 2.XX.1 Definitions.

2.XX.1.1. Printer ink cartridges – Any cartridge or module that contains ink or a similar substance in liquid form employed in the printing of documents, papers, pictures, etc., that is used in a printing device and designed to be replaced when no longer able to supply its contents in printing.

2.XX.1.2. Toner cartridges – Any cartridge or module that contains toner, powder, or similar non-liquid substance employed in the copying or printing of documents, papers, pictures, etc. that is used in a copying device and designed to be replaced when no longer able to supply its contents in printing and/or copying.

# 2.XX.2. Method of Sale and Labeling.

2.XX.2.1. Method of sale, printer ink cartridges. – All printer ink cartridges kept, offered, or exposed for sale or sold shall be sold in terms of the count of such cartridges and the fluid volume of ink in each cartridge, stated in terms of milliliters or fluid ounces.

2.XX.2.2. Method of Sale, toner cartridges. – All toner cartridges kept, offered, or exposed for sale or sold shall be sold in terms of the count of such cartridges, and the net weight of toner substance.

# (Added 201X)

**Background/Discussion:** Over the past several years, there has been a change in the marketplace on inkjet and toner cartridges net content statements. Currently, there is little uniformity in the marketplace on this item, and the Committee is seeing some labels with a net content or with only a page yield count (e.g., prints 1000 pages). The NIST Weights and Measures Division (WMD) pointed out that according to guidelines printed in HB 130 from the Weights and Measures Law, Section 19 "information required on packages," these products are required to have the net contents of the ink (and toner) labeled, but manufacturers have resisted, claiming an exemption under the FPLA. The purpose of this proposal is to specifically clarify the requirements for industry, consumers, and weights and measures officials.

At the 2009 SWMA Annual Meeting in Clearwater, Florida, a Lexmark representative commented that they do not believe that a net content statement should be required, and that a page yield is sufficient. He read the main points of a letter from Lexmark to Mr. Max Gray, Director of Florida Agriculture and Consumer Services, dated March 17, 2009. The main points within the letter were: 1) the ink associated with a cartridge is a small fraction of the total cost of the print cartridge mechanism; 2) a page yield can provide a meaningful comparison to a consumer, if all manufacturers employ the same estimating assumptions and techniques; and 3) the International Organization for Standardization (ISO) studied this issue for years and has rejected reliance on ink volume or quantity; instead ISO has developed a yield, estimating and claiming methodology that permits cartridges to be compared using a consistent yardstick. Unlike ink volume measurements, page yield measurements provide a consumer with a reliable way to compare the amount of printing that can be expected. Lexmark also stated that ink is expressly exempt from labeling as provided by the FPLA 16 CFR 503.2(a).

An industry representative believes this issue does need to be discussed and reviewed further. However, many officials believe that consumers should know what they are getting. If it is determined that page count is the quantity statement, then the page print standard should be reviewed and have tighter standards. Mr. Gray felt that more data is needed from manufacturers on this issue.

The SWMA L&R Committee recommends the item for consideration for Developing by the NCWM L&R Committee.

At the 2010 Interim Meeting held in Nashville, Tennessee, the Committee heard testimony from Mr. Matthew Barkley, Hewlett Packard, regarding how the FPLA creates an exemption for ink, which extends to toner and ink cartridges. A declaration of weight and volume are not the best way for consumers to make value comparisons. Customers benefit from page count/yield. Mr. Barkley urges that this issue be Withdrawn. If this issue is to proceed, it should be Informational and a review of the FPLA exemption needs to be reviewed. Page yield is widely accepted and has repeatability measures.

Mr. Paul Jeran, Hewlett Packard, submitted a white paper (refer to Appendix C) from the Information Technology Industry Council (ITI). This white paper included manufacturers from Epson, Hewlett Packard, Kodak, and Lexmark. Mr. Jeran explained that his background is with ink and toner measurement. For the same volume of ink, two different systems of the same model cartridge from two different vendors can print a different number of pages. In order to determine the page yield, they are using the ISO/IEC methodology. ISO is currently working on a photo yield standard.

A state official expressed concerns with page yield being the standard page print for quantity. There is variation based on the type of cartridge, printer, and font and if graphics/photos are being printed. There is also a concern

with what ink cartridge refillers are doing. The Florida official reviewed the current practice of refillers, and they are listing on the labels the amount of ink. There are many manufactured packages in the marketplace, so value comparison to original equipment manufacturer (OEM) is critical. This is an expensive commodity and clarifications of the requirements are needed. A state official recommended that this item not be Withdrawn, but made Informational so additional information can be researched on this item. It is firmly believed that there needs to be a consistency with the declaration statement on these types of items. A consumer stated that he believes the net content needs to be stated with voluntary supplemental information for page yield. Some voiced their opinion that consumers need to know page yield in order to make a value comparison. The NIST Technical Advisor stated that under the FTC regulations ink and toner cartridges were not part of the CFR. NIST met with the FTC on February 26, 2010, to request clarification of the exemption. According to the Committee, there needs to be a test procedure for verification of net content developed for ink and toner cartridges. The Committee recommends that this item be made Informational until they can receive clarification from the FTC, review ISO standards, and determine what refillers' current practices are.

At the 2010 NEWMA and the CWMA Annual Meetings, both Associations received a presentation from Mr. Stephen Pociask from American Consumer Institute, regarding a lack of consumer information when purchasing computer printers and cartridges. Both Associations expressed that there are still many unanswered questions and would like to hear from manufacturers of ink and toner cartridges. Both Associations are recommending that this be an Informational item.

At the 2010 Annual Meeting held in St. Paul, Minnesota, Mr. Pociask, presented a study done by his organization. It was asked who initially requested the study and who funded it. Mr. Pociask stated that the study was done back in 2007, with funding by a telemarketing research company.

A Weights and Measures Official expressed concern that the study presented was not clear; is page count based on certain fill levels or declaring the weight on the cartridge itself? Mr. Pociask responded that currently Quality Logic uses the ISO standards. He also concluded that net weight is easy to enforce. Mr. Pociask stressed that his focus is to provide information that give consumers useful information in purchasing printers and the life cost of the printer, including printer ink cost.

Another official stated that the study was interesting, but would like to hear from manufacturers. There are several issues; cartridges are only for specific printers, when comparing price per page you suggest that price is static, and ink cartridge refillers need to be addressed.

Mr. Joshua Rosenberg, IT Industry Council (ITI), agreed that providing consumers with information is meaningful, however; relevant to the consumer is the number of pages that can print. The ISO standards are a good tool, but will lead to customer confusion. Mr. Rosenberg expressed that there is a lot more that needs to be discussed on this issue (refer to Appendix C).

At the 2010 Annual Meeting, the Board of Directors established a Task Group (TG) for the Printer Ink and Toner Cartridges to review and obtain additional information from all stakeholders. Ms. Vicky L. Dempsey, Chief Inspector, Montgomery County, Ohio will Chair this group and Lisa Warfield will be the NIST Technical Advisor.

At the 2010 CWMA Interim Meeting, Ms. Dempsey, Chairperson for the TG on Printer Ink and Toner Cartridges announced her resignation to the Association. Ms. Dempsey gave a briefing on this issue, in particular whether this particular form of ink is included in the exemption of the FPLA. It was indicated that FDA believes this exemption only applies to ink in pens, not in printer cartridges. Regulators commented that "yield" is more important for cost comparison for consumers; however, other regulators felt that "yield" is not a weights and measures issue. Another concern was that the ISO yields are based upon approximations. Discussion also included whether regulators would have to purchase printers in order to verify yield. It was generally agreed that this is a very complicated matter, and the method of sale needs to be measurable. A regulator stated he had spoken with a manufacturer and questioned how the packages are filled. The response indicated that packages are filled by volume.

The CWMA L&R Committee supports the efforts of a TG for the Printer Ink and Toner Cartridges to gather more information for development of this proposal.

At the 2010 WWMA Annual Meeting and the 2010 NEWMA Interim Meeting, it was announced that NCWM is seeking a chairperson for the Printer Ink and Toner Cartridges TG. The CWMA and WWMA are recommending that this item move forward as Informational.

At the 2010 SWMA Annual Meeting, it was announced that a chairperson is needed for the TG on Printer Ink and Toner Cartridges. The SWMA L&R Committee does not endorse the formation of an Ink and Toner TG to resolve this issue. Only within the past couple years have manufacturers changed their declaration statement to read "yield." Allowing the declaration by yield will open the door for other commodities to change their labeling (e.g., loads of laundry). The SWMA L&R Committee recommends that these commodities be sold by volume and weight; however, they are not opposed to yield being a supplementary statement. This will allow for inspectors to verify the net contents, and also provide information for consumers to make value comparisons. The SWMA L&R Committee would like to seek additional information from industry and ink refillers. A recommendation was made for the item under consideration move forward as a Voting item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, the Ink and Toner Cartridge WG held its first work session. There was discussion on the current forms and types of printer ink. Industry also explained that they are able to deliver less ink with a better print quality. As a result, they refrain from using the net content statement but feel that a page yield is more useful information for a consumer in making comparisons. Industry was informed that yield is not acceptable and they cannot use words like "approximate" and "estimated." It was agreed that yield could be a supplementary statement on the package.

The Ink and Toner WG requested additional information from industry in regards to:

- 1. How the ISO standard works, and how this standard fits into the weights and measures test procedure.
- 2. How is print darkness measured?
- 3. An explanation as to why manufacturers removed the net weight declaration from packages and replaced it with a page yield?
- 4. When changing formulas, is the toner receptacle resubmitted back through the ISO standards to validate the page print accuracy?

Industry agreed to prepare a presentation to address these concerns at the Ink and Toner WG to be held in July 2011.

The Committee recommends that this item be Informational.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, there were no comments heard on this item. The Committee Chair reminded members that the Printer and Toner WG will be meeting on the Sunday prior to the start of the NCWM Annual Meeting, and that industry will be giving a presentation. The NEWMA L&R Committee recommended that this item move forward as an Informational item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, there were several comments heard on this item. Concern was expressed that ink cartridges used to have quantity on the label, but now, in the marketplace, only yield is used for labeling. A state director expressed concern that ink refillers are not being addressed under this proposal. The CWMA L&R Committee recommended that this item move forward as an Informational item.

The Printer Ink and Toner Cartridge WG met on Sunday, July 17, 2011, at the NCWM Annual Conference in Missoula, Montana. This workgroup was attended by several members of state, county, and city weights and measures officials as well as members of industry. Mr. Josh Rosenberg, with the Information Technology Industry Council (ITI), and other members of the printer industry gave a presentation outlining their viewpoints using yield as the method of sale for their products. The printer industry representatives were asked questions regarding the amount of product each cartridge held and all agreed their respective companies were aware of the net contents of each container. A stakeholder stated that packages must have the weight, measure, or count – no other type of labeling is acceptable. Industry was also informed that "yield" is not an acceptable means of labeling for any product.

The Ink and Toner WG will meet at the NCWM 2012 Interim meeting in New Orleans. The printer industry was asked to consolidate their presentation to only address the labeling issue of their products and address the WG with this information. Also, the Printer Ink and Toner Cartridge WG plans to make a proposal to the NCWM L&R Committee for a method of sale for packaged printer ink and toner cartridges.

During the open hearings at the 2011 NCWM Annual Meeting, Mr. Rosenberg, with ITI (also representing Lexmark, HP, Kodak, Epson and Brother), entered their Sunday presentation for the record (refer to Appendix C.) Mr. Rosenberg remarked that a label by volume or weight does not meet the objectives of their organization or consumers' preference. Mr. Rosenberg believes that yield is the best way to enable consumers to make informed purchase decisions. He further believes there is a way to provide information through yield data and the ability to apply the ISO standard for yield. Mr. Rosenberg stated they will be in attendance at the upcoming regional meetings to address any issues or concerns. A stakeholder noted that he does not believe the ISO yield standard is acceptable, due to the default system of each manufacturer's printer being different. He also pointed out that NCWM is not a performance based evaluation agency, and encourages the Ink and Toner WG to develop an item based on the use of weight or volume as the unit of measure.

The Committee would like to see additional work from the Printer Ink and Toner WG.

Ms. Maureen Henzler, Kansas, is the Chairperson for the WG on Printer Ink and Toner Cartridges. If you are interested in participating in this TG, e-mail Ms. Henzler at maureen.henzler@kda.ks.gov or Lisa Warfield, NIST, at lisa.warfield@nist.gov.

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

(This item was adopted.)

**Source:** NIST Weights and Measures Division, International Dairy Foods Association, Food and Drug Administration (FDA)

**Purpose:** Provide a method of sale for pelletized frozen desserts in accordance with FDA's August 2010 statement.

## **Item Under Consideration:**

- **1.7.1.** Factory Packaged Ice Cream and Similar Frozen Products. Ice cream, ice milk, frozen yogurt, and similar products shall be kept, offered, or exposed for sale or sold in terms of fluid volume. (Amended 1995)
- **1.7.2. Pelletized Ice Cream <u>and Similar Pelletized Frozen Desserts</u> A semi-solid food product manufactured at very low temperatures using a nitrogen process and consisting of small beads of varying sizes. Bits of inclusions (cookies, candy, etc.) that also vary in size and weight may be mixed with the pellets.** 
  - **1.7.2.1. Method of Retail Sale** Packaged pelletized ice cream <u>or similar pelletized frozen desserts</u> shall be kept, offered, or exposed for sale on the basis of net weight.

**Note:** The method of sale <u>for pelletized ice cream</u> shall be enforceable after April 17, 2010, <u>and after August 2, 2011, for similar pelletized frozen desserts.</u>

(Added 2010) (Amended 20XX)

**Background/Discussion:** In a letter from the FDA (refer to NCWM 2010 Interim Meeting, L&R Agenda, Appendix D), a statement was issued that the net quantity of content statement on pelletized frozen desserts, in addition to pelletized ice cream, conform to the standards for frozen desserts in 21 CFR Part 135. Nonstandardized frozen desserts that are similar to the standardized frozen desserts in 21 CFR Part 135 should be declared in terms of net weight. The FDA expects manufacturers of these pelletized frozen desserts to revise their labels to reflect a net

weight declaration during the next package printing cycle and encourage all marketers of pelletized frozen desserts to modify their labels with a net weight declaration within one year from the issue date (August 2011).

At the 2010 fall regional meetings, there were no comments heard on this item. All four Associations have recommended that this item move forward as a Voting item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, there were no comments heard on this item. The Committee recommends that the item move forward as a Voting item.

At the 2011 NEWMA and CWMA Annual Meetings, there were no comments heard on this item. Both regions are recommending this item be a Voting item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, there were no comments heard on this item.

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

(This item was returned to committee on a split vote.)

Source: Central Weights and Measures Association

**Purpose**: Adopt a method of sale in HB 130 for vehicle motor oil. There is a corresponding Fuels and Automotive Lubricants Regulation to require detailed invoicing requirements. Some oil facilities may not deliver the advertised oil, so consumers may be receiving lower quality oil than what is specified. It is being recommended that retailers that provide oil change services be required to provide consumers with a document that lists the oil's manufacturer, brand name, SAE viscosity, and service requirements as defined in API 1509, SAE J183, or ASTM D4485.

#### **Item Under Consideration:**

#### 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)

**Background/Discussion:** At the 2011 NCWM Interim Meeting in Dallas, Texas, it was pointed out that if Item 237-6, HB 130 Engine Fuels and Automotive Lubricants Regulation, Section 3.13.1. Labeling of Vehicle Motor Oil was adopted by the Conference it would require a corresponding method of sale. It was also noted that this method of sale is important to consumers and stakeholders because not all of the states adopt the Engine Fuels and Lubricants Regulation.

#### 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 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.
- <u>2.33.1.2.</u> 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.
- 2.33.1.3. Brand The label on a vehicle motor oil container and the invoice 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 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  $\binom{1}{8}$  in) in height, as defined by the latest version of SAE J183 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 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.
  - 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.

## (Added 201X)

The Committee recommends this item move forward as a Voting item.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, membership reviewed the proposal under the background/discussion, and it was noted that the title to the SAE and API standard would be noted. It was also noted to change the word "motor" to "engine." A representative from API did not object to these changes. The NEWMA L&R Committee recommended that this item move forward as a Voting item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, there was support from API and a state representative. The CWMA L&R Committee recommended that this item move forward as a Voting item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, the FALS and L&R Committee received a letter from the Independent Lubricant Manufacturers Association (ILMA) in support of this and a corresponding proposal Item 237-6 (refer to Appendix G.) The FALS group believes this has unanimous support. It was noted that the SAE and API standards technical title would be editorially placed in the proposal. It was agreed that the term "motor" would not change to "engine." A representative of API stated that bulk oils are the weak link in the property chain. A State representative expressed concern with the cost and training for testing the "brand." API responded that the brand name is a critical part of the traceability. API does have a licensing program for engine oil but, without knowing the brand name, it would be hard to determine compliance with any specifications. Several state regulators supported this proposal because of significant problems in the industry. It was also emphasized that industry wants this as well as the weights and measures regulatory community. It was mentioned that some car manufacturers will void a warranty unless a specific brand is used. The FALS Chairperson supports this proposal so that producers can guarantee their product and enforce mislabeling.

During the voting session, a state regulator agreed that brand helps with traceability, but he believes the labeling requirement should be limited to specification. Several states stated they would support this item only if Section 2.33.1.3. Brand was removed from the proposal.

#### 237 ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATION

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

**Source:** Western Weights and Measures Association (WWMA)

**Purpose:** Adopt engine fuel quality requirements for hydrogen in HB 130 to address gaseous hydrogen refueling applications.

**Item Under Consideration:** The U.S. National Work Group (USNWG) Fuel Specifications Subcommittee (FSS) presented the following recommendation for consideration.

Table 1. Hydrogen Fuel Quality Specifications*							
	Constituent	99.97	Unit	Limit	Test Method(s)	Responsible Standards Committee and Status of test method	
	Standard Practi	ice for Gaseo	us Samplin	g	ASTM D7606-11		
1	Hydrogen Fuel Index		%	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		

# Table 1. Hydrogen Fuel Quality Specifications\*

#### 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 http://www.ftc.gov/bcp/edu/pubs/business/autos/bus29.shtm); 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

**Specification for Hydrogen Fuel:** The FSS identified several quality criteria where there was tentative agreement with their associated values (see properties 6, 7, 8, 9, 12, 14, and 16 which are highlighted in green) in the proposed Table 1. Hydrogen Fuel Quality Specification. When a quality property and numerical value (defining a maximum or minimum limit) is added to the specification, appropriate test methods must then be identified. As test methods are identified and adopted by the FSS, they will be added to column 6 (test methods) in Table 1. The FSS did not agree on all of the properties contained in the DMS proposal because there was either not enough research data or test methods available to support a decision (see properties 1, 2, 3, 4, 5, 10, 11, 13, and 15 which are highlighted in yellow) in Table 1 below. These and perhaps other properties will receive further consideration by the FSS and may be added to the quality standard in the future when such action is supported by research.

In April 2009, at the USNWG on hydrogen meeting held in Sacramento, California, they further refined the definitions for hydrogen vehicle fuel based on work by SAE International. The definitions were modified to include more technically correct language, and the text is in alignment with the widely recognized "Bosch Automotive Handbook." In January 2010, a column was added to Table 1 to reflect the responsible standards committee and the status of the test method.

**Background/Discussion:** Twenty-four states have hydrogen refueling dispensers in operation. Hydrogen stations using permanent and mobile refueling systems for automobiles, fleet vehicles (buses), forklifts, and airport totes are increasing and may go unnoticed. Many stakeholders, who are not familiar with the weights and measures standards process, will need to participate at this stage before it becomes a commercial application. This effort by the USNWG for the Development of Commercial Hydrogen Measurement Standards is to ensure there are appropriate standards and test procedures in place in time for dispenser manufacturers, service agencies, and officials to educate the general public, not if, but when, retail hydrogen applications become commercially available.

Existing codes do not fully address hydrogen refueling applications because of hydrogen's properties and other technical differences in the setup and operations of dispensing systems. The development of legal metrology standards for newly emerging hydrogen technology is a necessary component of the hydrogen infrastructure. The weights and measures community must have time to consider requirements for hydrogen-refueling systems before this application is available for public access at corner service stations.

The USNWG brought proposals for equipment, method of sale, and fuel quality requirements before the weights and measures community to share this information about upcoming standards for an emerging technology. The simultaneous development of the code and corresponding test procedures, will allow for input from the weights and measures and hydrogen communities, appropriate trials of the standards, and to address all areas of concerns early in the standards development process.

This item was reviewed at the WWMA and SWMA 2008 Annual Meetings and at the NEWMA 2008 Interim Meeting. NEWMA members generally discussed the "hydrogen issue" and its usage in the marketplace. It is anticipated that hydrogen at first will be relegated to "fleet vehicles" (such as compressed natural gas [CNG]), and that retail sales will be slow in coming to the marketplace. These Associations are recommending this item remain a Developing item.

At the 2009 Interim and Annual Meetings, the NIST Technical Advisor briefed the Committee on work that the USNWG FSS has done to date (refer to Appendix J in the "Report of the 94<sup>th</sup> NCWM" [SP 1099, 2009]).

There were no comments heard on this proposal at the CWMA 2009 Interim Meeting.

At the WWMA 2009 Annual Meeting held in Los Cruces, New Mexico, industry representatives acknowledged that some details of the specifications for fuel standards are in development. The WWMA L&R Committee believes it is best to be proactive on this item so that Hydrogen stations can be ready to make retail sales.

At the SWMA 2009 Annual Meeting, a state recommended that as the test methods are developed they get published. It also requested that documentation be produced on the effects of hydrogen if they exceed certain property values listed in the table "Hydrogen Fuel Quality Specification," and why this is important in the testing of hydrogen.

NEWMA reviewed this proposal at their 2009 Interim Meeting and recommends leaving this as a Developing item.

At the NCWM 2010 Interim Meeting, the NIST Technical Advisor provided an updated Table 1. Hydrogen Fuel Quality Specification (refer to L&R Appendix B in the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]) that amends the chart to identify which Standards Committee is actively working on the test method under development.

At the 2010 NEWMA and CWMA Annual Meeting, no comments were received on this item and both Associations are recommending that this item move forward as an Informational item.

At the 2010 NCWM Annual Meeting in St. Paul, Minnesota, Mr. Jennings, Tennessee, informed the Conference that the American Society for Testing and Materials International (ASTM) is actively working on a hydrogen specification. Until further developed by ASTM, there is nothing that can be done on this item. Mr. Jennings would also like to provide users with information on what the significance is of each property.

At the 2010 CWMA Interim Meeting in Rock Island, Illinois, a representative of the USNWG provided an update on ASTM efforts to establish test methods. An industry representative provided information that some of the specifications of the SAE standard contained parameters that could not be measured by the current test methods. A ballot cannot take place at ASTM until these test methods are established, and test methods will take some time to develop. The CWMA L&R Committee recommended that the proposal be further developed by the NCWM Fuels and Lubricants Subcommittee (FALS) due to their expertise in this area.

At the 2010 WWMA Annual Meeting held in Olympia, Washington, a state official, who is also a member of the USNWG, recommended that this item be split into two separate proposals. One proposal would address: "Specifications for Hydrogen Fuel for Internal Combustion Engines and Fuel Cells." The second item would address: "Definitions" with the existing language and definitions as recommended by the USNWG FSS. The state official commented that work has been done by the USNWG on definitions, and that moving the terms to a vote would help move the implementation and acceptance of hydrogen. It was stated that "specifications" could take years to develop. The WWMA L&R Committee agreed with the recommendation in having the definitions as a separate item (refer to Item 237-2). The WWMA L&R Committee recommends that this item remain Informational.

At the 2010 SWMA Annual Meeting, the NIST Technical Advisor informed the group that the WWMA recommended to separate the fuel specifications from the definitions. The SWMA L&R Committee also agreed to separate these two items. The SWMA L&R Committee recommends moving the fuel quality proposal forward as an Informational item.

At the 2010 NEWMA Interim Meeting, there were no comments heard on this item. The NEWMA L&R Committee recommends moving forward the fuel specification portion as an Informational item. The NEWMA's L&R recommendation for the definitions is documented in Item 237-2.

Table 1. Hydrogen Fuel Quality Specifications*						
Property		Value	Unit	Limit	Test Method(s)	Responsible Standards Committee and Status of test method
1	Ammonia	0.1	ppm v/v	Maximum	ASTM D7653-10	
2	Carbon Dioxide	2.0	ppm v/v	Maximum	ASTM D7653-10 ASTM D7649-10	
3	Carbon Monoxide	0.2	ppm v/v	Maximum	ASTM D7653-10	
4	Formaldehyde	0.01	ppm v/v	Maximum	ASTM D7653-10	
5	Formic Acid	0.2	ppm v/v	Maximum	ASTM D7550-09 ASTM D7653-10	
6	Helium	300.0	ppm v/v		to be specified	ASTM D03.14
7	Hydrogen Fuel Index	99.97	% (a)		to be specified	
8	Nitrogen and Argon	100.0	ppm v/v		ASTM D7649-10	
9	Oxygen	5.0	ppm v/v	Maximum	ASTM D7649-10	
10	Particulate Concentration	1.0	mg/kg	Maximum	ASTM D7650-10 ASTM D7651-10	
11	Total Allowable Non-Hydrogen, Non- Helium, Non-Particulate constituents	100.0	ppm v/v	Maximum	to be specified	
12	Total Non-Hydrogen Gases	300.0	ppm v/v (b)	Maximum	to be specified	
13	Total Halogenated Compounds	0.05	ppm v/v	Maximum	to be specified	WK 23815 under ASTM D03.14
14	Total Hydrocarbons	2.0	ppm v/v (c)	Maximum	to be specified	WK 22378 under ASTM D03.14
15	Total Sulfur Compounds	0.004	ppm v/v	Maximum	to be specified	WK 24073 under ASTM D03.14
16	Water	5.0	ppm v/v	Maximum	ASTM D7653-10 ASTM D7649-10	

# Footnotes to Table 1:

- a. Hydrogen fuel index is the value obtained with the value of total gases (%) subtracted from 100 %.
- b. Total Gases = Sum of all impurities listed on the table except particulates.
- c. 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 http://www.ftc.gov/bcp/edu/pubs/business/autos/bus29.shtm; requires dispensers to bear an declaration of 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 1/20/2011

At the 2011 NCWM Interim Meeting held in Dallas, Texas, the NIST Technical Advisor submitted an updated Table 1. Hydrogen Fuel Quality Specification that was received from the USNWG. The USNWG also submitted the following updated specifications for the allowable level of the constituents listed in Table 1. Hydrogen Fuel Quality Specifications and corresponding standardized procedures for collecting and measuring each constituent are now available for: Ammonia [1], Carbon Dioxide [2], Carbon Monoxide [3], Formaldehyde [4], Formic Acid [5],

Nitrogen and Argon [8], Oxygen [9], Particulate Concentration [10], and Water [16]. The next stage in the development of these standards is to round robin the methods to establish precision and bias.

Standard Test Methods for Sulfur [15] and Hydrocarbons [14] will be made available shortly since these standards are in publishing. ASTM Subcommittee D03.14 on Hydrogen and Fuel Cells has tentative plans for sending the standards for Helium [6] and Halogenates [13] to ballot in March 2011.

The Committee recommends that the item remain Informational.

At the 2011 NEWMA and CWMA Annual Meetings, an updated specifications chart was reviewed. Both Regions are recommending this item move forward as an Informational item until further developed by the USNHWG.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, a revised chart updated on July 12, 2011, was distributed (refer to item under consideration). It was noted by a representative of the USNHWG that the previous color coded chart was eliminated since only one constituent remains to be completed. The Committee is in agreement that the revised chart move forward as an Information item.

Additional information on this hydrogen proposal and the corresponding method of sale regulation and hydrogen gas measuring devices code adopted in 2010 can be found at website: http://www.nist.gov/pml/wmd/lmdg/hydrogen.cfm. For additional information on this item, contact Mr. Marc Buttler at marc.buttler@nist.gov or (301) 975-4615.

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

(This item was removed from Voting status.

The Committee determined that additional work needs to be done and returned it to Informational status.)

**Source:** Western Weights and Measures Association (WWMA). This item was previously within Item 237-1.

Purpose: Adopt definitions for hydrogen fuel, internal combustion engine, and fuel cell.

**Item Under Consideration:** In April 2009, the U.S. National Work Group (USNWG) for the Development of Commercial Hydrogen Measurement Standards Fuel Specifications Subcommittee (FSS) presented the following recommended definitions for consideration.

FSS supports the proposed new definitions to address gaseous hydrogen refueling applications.

- 1. Specification for Hydrogen Fuel for Internal Combustion Engines and Fuel Cells
- 2. Definitions

# 1.XX. Fuel Cell. – An electrochemical energy conversion device in which fuel and an oxidant react to generate energy without consumption of its electrodes or electrolytes. (Added 201X)

1.XX. Hydrogen Fuel. – A fuel composed of the chemical hydrogen intended for consumption in a surface vehicle with an internal combustion engine or fuel cell.

(Added 201X)

1.XX. Internal Combustion Engine. – A device used to generate power by converting chemical energy bound in the fuel into mechanical work to power a vehicle.

(Added 201X)

**Background/Discussion:** This proposal was reviewed at all the fall regional meetings under Item 237-1. At the 2010 WWMA and SWMA Annual Meetings and the 2010 NEWMA Interim Meeting, the Associations made the

recommendation to have the definitions for hydrogen fuel for internal combustion engines and fuel cell vehicles considered as a separate item. All of the Associations are recommending this item move forward as a Voting item. (refer to Item 237-1 above for additional background information)

At the 2011 NCWM Interim Meeting held in Dallas, Texas, a NIST Technical Advisor reported that the USNWG for hydrogen supports this item and recommends it be adopted by the NCWM. The Committee recommends this item for adoption by the NCWM.

At the 2011 NEWMA and CWMA Annual Meetings, no comments were heard on this item. The NEWMA and CWMA L&R Committees recommended that this item move forward as a Voting item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, a state official spoke in support of this item. There were no additional comments heard. During the voting session, it was asked if online comments were reviewed for additional language changes. The Committee Chair responded that online comments were reviewed by the Committee.

Jim Simnick submitted the following changes via the NCWM online commenting system:

- 1.XX. Fuel Cell. An electrochemical energy conversion device in which fuel and an oxidant react to generate **electrical** energy without consumption of its electrodes or electrolytes.
- 1.XX. Hydrogen Fuel. A fuel composed of the <u>molecular ehemical</u> hydrogen intended for consumption in a surface vehicle <u>or electricity production device</u> with an internal combustion engine or fuel cell.
- 1.XX. Internal Combustion Engine. A device used to generate power by converting chemical energy bound in the fuel <u>via spark-ignition or compression ignition combustion</u> into mechanical work to power a vehicle **or other device**.

Prior to the voting session it was recommended that the definition be amended to the language submitted by Mr. Simnick. A representative of the USNHWG remarked that the substitution of the word molecular for chemical is questionable; accordingly they would like to take the language back to the USNHWG for additional review and study. A state official requested that the Committee remove this item from Voting status and return to Informational status. The Committee was in agreement that an additional review is required by the USNHWG and removed the item from Voting status.

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

**Source:** Southern Weights and Measures Association (SWMA)

**Purpose:** Amend Section 3.15. Biodiesel and Biodiesel Blends of the Engine Fuels and Automotive Lubricants Regulation to remove the exemption for declaration of biodiesel content on product transfer documents for biodiesel blends up to 5 %.

**Item Under Consideration:** Amend Section 3.15. Biodiesel and Biodiesel Blends of the Engine Fuels and Automotive Lubricants Regulation.

# 3.15. Biodiesel and Biodiesel Blends.

**3.15.1. Identification of Product.** – Biodiesel shall be identified by the term "biodiesel" with the designation "B100." Biodiesel blends shall be identified by the term "Biodiesel Blend."

## 3.15.2. Labeling of Retail Dispensers.

**3.15.2.1. Labeling of Grade Required.** – Biodiesel shall be identified by the grades S15 or S500. Biodiesel blends shall be identified by the grades No. 1-D, No. 2-D, or No. 4-D.

- **3.15.2.2. EPA Labeling Requirements Also Apply.** Retailers and wholesale purchaser-consumers of biodiesel blends shall comply with EPA pump labeling requirements for sulfur under 40 CFR § 80.570.
- **3.15.2.3. Automotive Fuel Rating.** Biodiesel and biodiesel blends shall be labeled with its automotive fuel rating in accordance with 16 CFR Part 306.
- **3.15.2.4. Biodiesel Blends.** When biodiesel blends greater than 20 % by volume are offered by sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states, "Consult Vehicle Manufacturer Fuel Recommendations."

The lettering of this legend shall not be less that 6 mm ( $\frac{1}{4}$  in) in height by 0.8 mm ( $\frac{1}{32}$  in) stroke; block style letters and the color shall be in definite contrast to the background color to which it is applied.

**3.15.3.** Documentation for Dispenser Labeling Purposes Required on Transfer Documents. – The retailer shall be provided, aAt the time of delivery of the fuel, a declaration of the volume percent biodiesel shall be disclosed on all transfer documents. on an invoice, bill of lading, shipping paper, or other document. This documentation is for dispenser labeling purposes only; ilt is the responsibility of any potential blender to determine the amount of biodiesel in the diesel fuel prior to blending.

## (Amended 201X)

# **3.15.4.** Exemption.

- (a) Biodiesel blends that contain less than or equal to 5 % biodiesel by volume are exempted from the requirements of Sections 3.15.1. Identification of Product, and 3.15.2. Labeling of Retail Dispensers, and 3.15.3. Automotive Fuel Rating when it is sold as "diesel fuel" as required in Section 3.3. Diesel Fuel.
- (b) <u>Diesel fuel containing less than 1 % by volume biodiesel is exempted from the requirement</u> of 3.15.3. Documentation for Dispenser Labeling Purposes.
- (c) <u>Diesel fuel containing 1 % and not more than 5 % by volume biodiesel fuel is exempt from disclosing the actual percent by volume of biodiesel as required in Section 3.15.3.</u>

  <u>Documentation for Dispenser Labeling Purposes. However, the term "Contains Biodiesel" or other similar terms shall be used.</u>

#### (Amended 201X)

(Added 2005) (Amended 2008 and 201X)

**Background/Discussion:** At the 2009 SWMA Annual Meeting held in Clearwater, Florida, a discussion over blending was presented by a FALS member. Biodiesel is being blended at many terminals across the country in concentrations up to 5 %. Marketers downstream of the terminal are then attempting to blend additional biodiesel to target levels, and finding that their product is being over-blended because they were not aware that the fuel contained any biodiesel. Per Mr. Jennings, Tennessee, at least one major truck stop operator has already voiced concerns to the FALS Chairman. This amended proposal will remove the exemption declaration of biodiesel content on product transfer documents for biodiesel blends up to 5 %. Biodiesel is blended at terminals in concentrations up to 5 %. Mr. Jennings felt it was important to start this recommendation and have the FALS Chairman vet the proposal out to all members of the FALS Committee for their comments before the NCWM Interim meeting in January 2010.

#### 3.15. Biodiesel and Biodiesel Blends

**3.15.1. Identification of Product.** – Biodiesel shall be identified by the term "biodiesel" with the designation "B100." Biodiesel blends shall be identified by the term "Biodiesel Blend."

## 3.15.2. Labeling of Retail Dispensers.

- **3.15.2.1. Labeling of Grade Required.** Biodiesel shall be identified by the grades S15 or S500. Biodiesel blends shall be identified by the grades No. 1-D, No. 2-D, or No. 4-D.
- **3.15.2.2. EPA Labeling Requirements Also Apply.** Retailers and wholesale purchaser-consumers of biodiesel blends shall comply with EPA pump labeling requirements for sulfur under 40 CFR § 80.570.
- **3.15.2.3. Automotive Fuel Rating.** Biodiesel and biodiesel blends shall be labeled with its automotive fuel rating in accordance with 16 CFR Part 306.
- **3.15.2.4. Biodiesel Blends.** When biodiesel blends greater than 20 % by volume are offered by sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states "Consult Vehicle Manufacturer Fuel Recommendations."

The lettering of this legend shall not be less that 6 mm ( $\frac{1}{4}$  in) in height by 0.8 mm ( $\frac{1}{32}$  in) stroke; block style letters and the color shall be in definite contrast to the background color to which it is applied.

- **3.15.3. Documentation for Dispenser Labeling Purposes.** The retailer shall be provided, at the time of delivery of the fuel, a declaration of the volume percent biodiesel on an invoice, bill of lading, shipping paper, or other document. **This documentation is for dispenser labeling purposes only; it is the responsibility of any potential blender to determine the amount of biodiesel in the diesel fuel prior to blending.**
- **3.15.4.** Exemption. Biodiesel blends that contain less than or equal to 5 % biodiesel by volume are exempted from the requirements of Sections 3.15.1. Identification of Product, <u>and</u> 3.15.2. Labeling of Retail Dispensers, and 3.15.3. Automotive Fuel Rating when it is sold as "diesel fuel" as required in Section 3.3. Diesel Fuel.

(Added 2005) (Amended 2008 and 20XX)

The SWMA Committee recommends moving this item forward to the NCWM L&R Committee Agenda as a Voting item.

At the 2010 NCWM Interim Meeting, Mr. Hayes, FALS Chairman, gave an update on the Subcommittee's work to remove the current exemption for biodiesel disclosure in diesel fuel at 5 % and below, on product transfer documents.

A draft of substitute language was circulated among FALS members prior to the interim meeting. This substitute expanded the disclosure of biodiesel content on all transfer documents (not limited to ones to the retailer) and for levels greater than 1 % biodiesel. The substitute was an attempt to find middle ground. FALS members were more agreeable to this substitute, but many still felt more work is needed.

The L&R and FALS Committee received seven letters (refer to L&R Appendix E within the "Report of the 95<sup>th</sup> NCWM" Annual Meeting [SP 1115, 2010]) that do not support this proposal as stated. The Committee does support working on this issue and receiving feedback from industry. There is concern with the documentation and comingling of fuels. If fuel is co-mingled, it would need to be sampled every time, which could be quite costly.

An official would like to see this item move forward as a Voting item. This official would like the spring Regional meetings (NEWMA and CWMA) to review and further develop the language. American Petroleum Institute (API) stated there are many things to consider, such as preemption language, cost implications, commercial issue of declaring with each transaction. API has worked with marketers, but there continues to be a difference of opinion and no consensus. It was voiced by industry that all biodiesel needs to be documented on the paperwork. If not, it puts the wholesaler, retailer, and consumer at risk. There was a comment from a stakeholder that they do not agree with API's comment, and that this has been a two-year battle on who gets to do the blending. Blenders are over-

blending because they are not aware of what the current blend is. To prevent this situation, it would require disclosure on the transfer document.

At the 2010 NEWMA Annual Meeting in Groton, Connecticut, a comment was heard from a stakeholder that the FTC has not changed the existing posting rule. The NEWMA L&R Committee recommends that this item remain Informational.

At the 2010 CWMA Annual Meeting in Springfield, Illinois, there were several comments stating that the exact percentage of an alternative fuel needs to be known. Without the percentage being known, mislabeling can occur, which is not good for consumer, marketers, the environment, and renewable fuels. One question that needs to be addressed is: What is the downside of providing this information? A representative of the National Biodiesel Board (NBB) does not support this proposal and would like to have further discussions to seek what is best for the entire industry. They also commented that FTC declined to modify requirements for disclosure on product transfer documents for fuels containing 5 % or less biodiesel. A state official disagrees that the exact percentage is necessary since it is the blender's responsibility to test the product prior to blending. A representative of the Renewable Fuels Association would like to see the proposal expanded to include all additives, and stated that the focus needs to be in broader terms instead of renewable fuels and recommends that the scope include all blending components.

It was recommended by the CWMA L&R Committee that this item move forward as an Informational item and that FALS form a task force under their guidance, to help further develop this proposal.

At the 2010 NCWM Annual Meeting held in St. Paul, Minnesota, the Committee received numerous letters (refer to Appendix E within the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]), and heard from fifteen stakeholders and industry representatives, supporting Section 3.15.3 that requires disclosure. Several participants expressed concerns with sections of the proposal. Currently, the FTC has the authority to protect consumers and they are looking at requiring product transfer documents. Several stakeholders indicated that they expect FTC to issue a proposed rule on biodiesel in the near future. It would be best if we stayed in line with the FTC ruling on the biodiesel issue. The very low blends seem to be the challenge.

The sections that are of concern to stakeholders are 3.15.4 (b) and (c), since it conflicts with reporting of taxes collected on biodiesel. The exact amount of the blend needs to be documented on the transfer document. The concern is when fuel is picked up from various locations and delivered; the actual amount of biodiesel is not documented. Currently blending at the terminal is not an issue.

The Committee agreed to allow time for the FALS Committee to receive additional information and further discuss this item.

At the 2010 CWMA Interim Meeting, a representative from a Petroleum Marketers Association commented that disclosure sets the tone for a chain of events for biodiesel. It was important for disclosure to be provided all the way through the distribution process because of the potential for over-blending. He believes that it is not realistic for wholesale distributors to test for biodiesel due to the cost. He supports the proposal with exception of the exemptions provided in 3.15.4 Exemptions (b) and (c). A state regulator agreed with this testimony. Another state regulator commented that the current proposal follows the same format as the ethanol regulation. A petroleum dealer mentioned that due to the RFS2, disclosure is needed in order to meet the mandates for blending.

A representative with the NBB commented that this proposal needs to be further developed by the FALS. She believes that we have not heard from all segments of the industry regarding this proposal. She also expressed concern that there will be no benefit to consumers if the cost of the extra testing of fuel is being passed on to consumers. It was mentioned that there are quick testing methods available for determining biodiesel content in the field; although, some are more accurate than others. The NBB representative also stated that the FTC believes that it is the responsibility of the blender to determine biodiesel content prior to blending.

A producer mentioned that the disclosure proposal would require terminals to purchase equipment and to do additional testing. The producer is concerned about tank stratification and the need to change bills of lading as the content varies. Cost and manpower are major concerns for producers. A marketer provided testimony that it is

more efficient for terminals to purchase testing equipment as opposed to requiring all downstream blenders to purchase testing equipment. He stated that changing bills of lading is only a software change. He believes that it is the blenders' obligation to meet the law for labeling, and it is difficult if the biodiesel content is not disclosed. The NBB representative questioned how often marketers test. A marketer responded that they do not routinely test; since they rely on transfer documents to accurately state what they are getting. Another marketer stated that producers can control what goes into their tanks and questioned if producers know how much biodiesel is in each batch. A producer responded that for barrels received by water in Savannah, Georgia, the biodiesel content is only disclosed on Plantation pipeline shipments if it is more than 5 %. The CWMA L&R Committee recommends that the proposal be further developed by the FALS.

At the 2010 WWMA and SWMA Annual Meeting, an industry representative spoke in support of keeping this item Informational and allow the FALS to further develop the requirements in light of the comments received. An industry representative stated that all shipping documents should show the exact blend of biodiesel. The Association recommends that this item remain Informational.

At the 2010 NEWMA Interim Meeting, the NEWMA L&R Committee received written comments from API (refer to Appendix E). The NEWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, a member of both the FALS and L&R Committee reported that this item was debated during the FALS work sessions and a consensus could not be reached. It was agreed upon that a Biodiesel Disclosure Task Group be formed to further study this item. Steve Howell with MARC IV and Samuel Bell, Echols Oil Company will co-chair this Subcommittee. The L&R Committee received five letters (refer to L&R Appendix E.), but no comments were received from the floor during open hearings. Since the Committee received correspondence on the item, they were surprised that no one spoke to it at the open hearing. The Committee recommends that this item move forward as an Informational item.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, a consultant with the National Biodiesel Board (NBB) stated that a report is currently being prepared and will be ready for the 2011 Annual NCWM meeting. The NEWMA L&R Committee recommended that this item move forward as an Informational item

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, the FALS Chairperson remarked that a WG was formed under FALS to develop new language. A petroleum representative opposes the item as currently written as it does not allow the blender to disclose what level blending has occurred. Another petroleum representative remarked that there are other implications beyond small percentages of biodiesel with other additives. It was agreed that as blender you should know exactly what you are getting, but it needs to be tested. The question is, who is the responsible party for providing the test? The CWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2011 NCWM National Meeting held in Missoula, Montana, the FALS Chairperson reported that a Subcommittee has been formed to work out a compromise on the requirements and a report with solutions should be prepared for the FALS at the 2012 Interim Meeting.

If you would like to participate in this Biodiesel Disclosure Task Group Subcommittee, contact Mr. Steve Howell, MARC IV (816-903-6272), e-mail: showell@marciv.com or Mr. Samuel Bell, Echols Oil Company, at (864) 233-6205, e-mail: info@scpma.com.

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

**Source:** Central Weights and Measures Association

**Purpose:** Modify the language in Section 2.1.2. Gasoline-Oxygenate Blends and 2.1.3. Gasoline-Ethanol Blends to be aligned with the Environmental Protection Agency's (EPA's) language in the March 2009 Growth Energy Waiver request.

**Item Under Consideration**: FALS will need to provide recommended language. Section 2. Standard Fuel Specifications is provided below because the most recent language was not in HB 130 (2009), but was released as an amendment in August 2009 (in place of republishing HB 130 [2010]). This language, minus the proposed modifications, has been included in the HB 130 (2011).

#### 2.1. Gasoline and Gasoline-Oxygenate Blends

- **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
    - (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)

**Discussion/Background:** The EPA will make a ruling on the March 2009 Growth Energy Waiver. When the ruling is announced, the above regulation will need to be extended to cover E15 gasoline blends. The Renewable Fuels Association (RFA) is proposing a broader approach to recognizing the authorized proportion of ethanol. RFA recommends the following language:

2.1.2. Gasoline-Oxygenate Blends. – Shall contain no more than the maximum proportion of ethanol authorized by U.S. Environmental Protection Agency (EPA) under Section 211 of the Clean Air Act. 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.

At the 2010 CWMA Interim Meeting, an update was given on the current consideration by EPA to allow higher ethanol blends in conventional vehicles. The FALS Chairperson stated that the FALS Subcommittee may be meeting to discuss this issue at the NCWM Interim Meeting in January 2011. The CWMA L&R Committee received two letters on this issue (refer to Appendix F). The CWMA L&R Committee recommends that this item be forwarded to the FALS for further work.

At the 2010 WWMA Meeting, an industry representative expressed concern on what this action will have on car warranties and potential liability issues. A representative stated that he opposed this item until an official ruling is made by the EPA. The WWMA L&R Committee recommends that this item be made developmental.

At the 2010 SWMA Annual Meeting and the 2010 NEWMA Interim Meeting, there were no comments heard on this item. The Conference would like to see a recommendation from the FALS. Both Associations are recommending that these items go to the FALS for further development.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Ron Hayes, Chairman of FALS, reported that FALS held a conference call on January 14, 2011, and also met at the NCWM to review the FALS items. The FALS Chairman reported that consensus could not be reached on this item.

An industry representative expressed concern with legal and liability challenges if the current proposal is passed. A representative from the renewable fuels industry recommended moving the item forward for adoption as written, because it recognizes EPA as the authority on setting requirements for ethanol and will not restrict ethanol use. An energy representative also noted the proposal collaboratively has gone through all the regions with no opposition and moving this forward as a vote is to recognize what EPA has decided, and their authority not to restrict ethanol content. A representative from API commented that passing the proposal is premature and the NCWM should delay action until revisions to ASTM D4814 can be completed. He also noted that the EPA decision was based on the durability of emissions related equipment and vehicle emissions, and does not preempt rules that are based on grounds other than emissions; ASTM will need to determine the vehicle drivability characteristics of the fuel before amending the D4814 performance standard. It was suggested that the goal of the model engine fuel regulation is to ensure vehicle performance, so adopting the ASTM standard is appropriate. An automotive representative expressed support for waiting on the revisions for ASTM D4814. The Committee agreed to make this item Informational to allow FALS to study it further.

## Section 2. Standard Fuel Specifications

2.1.2. Gasoline-Oxygenate Blends. – Shall contain no more than the maximum proportion of 40 volume percent ethanol authorized by the U.S. Environmental Protection Agency (EPA) under Section 11 of the Clean Air Act. 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)

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, a consultant remarked that proposed labeling is currently with the Office of Management and Budget (OMB), and they are working with the Federal Trade Commission (FTC) to agree on a final requirement. The NEWMA L&R Committee recommended this item move forward as an Informational item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, a letter was received recommending that the CWMA not give consideration to the proposal until ASTM D4814, Standard Specification for Automotive Spark-Ignition Engine Fuel is completed. The CWMA L&R Committee recommended that this item move forward as an Informational item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, the FALS met to modify Section 2.1. (refer to item under consideration). FALS is waiting to see how E15 is incorporated into ASTM D4814, Standard Specification for Automotive Spark-Ignition Engine Fuel. ASTM is currently waiting for performance data from the Coordinating Research Council (CRC) study. A Tennessee state official recommends that the model regulation only refer to the ASTM D4814 specification for gasoline-oxygenate blends. There was additional discussion regarding the vapor pressure exceptions provided in the model law regulation. It was also mentioned that the Environmental Protection Agency (EPA) may eventually discontinue the 1.0 psi allowance for E10 blends. The Committee supports the item under consideration and would like to receive additional input from the Regional meetings.

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

**Source:** BP Global Fuels Technology – West Coast

**Purpose:** Remove Section 2.1.4. Minimum Motor Octane Number since it is considered obsolete.

# **Item Under Consideration:**

# 2.1.7. Minimum Motor Octane Number. The minimum motor octane number shall not be less than 82 for gasoline with an AKI of 87 or greater;

**Background/Discussion:** In the early 90s, the Table titled "Automotive Spark-Ignition Engine Fuel Antiknock Indexes in Current Practice" was removed from the body of D4814 and placed into an Appendix in D4814. This Appendix is non-mandatory information and is not part of the specification. It is inappropriate for NIST HB 130 to continue with the 82 motor octane number minimum for the following reasons: 1) 82 motor octane number minimum is not an ASTM D4814 specification; 2) FTC regulates octane posting and has no motor octane number minimum; 3) neither the Kinder Morgan Pipeline nor the Olympic Pipeline requires a minimum motor octane number specification; and 4) the Colonial Pipeline has no motor octane number minimum for either Reformulated Blendstock for Oxygenate Blending (RBOB) or Conventional Blendstock for Oxygenate Blending (CBOB).

Recent data shows a low motor octane number is actually preferable for the current fleet of vehicles. Motor and Research octane numbers are equally important to the performance of the motor vehicle engine. A minimum motor octane number requirement offers no more protection to the consumer than the road octane number which is the average of the Motor and Research octane numbers.

At the 2010 WWMA Annual Meeting, the WWMA L&R Committee is recommending that this item be made Informational.

At the 2010 SWMA Annual Meeting and the 2010 CWMA and NEWMA Interim Meeting, the Associations are recommending that this item be made Informational and be forwarded to the FALS.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Ron Hayes, FALS Chairman, reported that the Subcommittee recommended that this item be Informational to allow more time for data to be reviewed. There currently exists historical data, and also a Coordinating Research Council (CRC) study is currently be done that will clarify issues and provide data needed to assist with making decision. There were no comments heard from the floor during open hearings. The L&R Committee made this item Informational.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, there were no comments heard on this item. The NEWMA L&R Committee recommended that this item move forward as an Informational item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, the FALS Chairperson indicated that they are waiting for results from the CRC study and recommends this remain Informational because it is not fully developed. The CWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, the FALS met on Sunday, July 17 and a presentation was provided by Mr. Jim McGetrick regarding background information on minimum octane levels. FALS is waiting for the data from the CRC study (report no. 660). The CRC plans to collect additional data on octane. The FALS is recommending this be kept Informational until additional information is received and a recommendation to the Committee can be prepared.

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

(This item was returned to Committee on a split vote.)

Source: Central Weights and Measures Association

**Purpose:** Amend the Fuels and Automotive Lubricants Regulation to require detailed invoicing requirements. Some oil facilities may not deliver the advertised oil, so consumers may be receiving lower quality oil. It is being recommended that retailers that provide oil change services be required to provide consumers with a document that lists the oil's manufacturer, brand name, SAE viscosity, and service requirements as defined in API 1509, SAE J183, or ASTM D4485.

#### **Item Under Consideration:**

## 3.13. Oil.

## 3.13.1. Labeling of Vehicle Motor Oil.

- 3.13.1.1. Viscosity. The label on each container of <u>a</u> vehicle motor oil <u>container</u>, <u>receptacle</u>, <u>dispenser</u>, <u>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</u>, <u>dispenser</u>, <u>or storage tank</u> 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. <u>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 service of the invoice of the in</u>

<u>receptacle</u>, <u>dispenser</u>, <u>or storage tank shall contain the name</u>, <u>brand</u>, <u>trademark</u>, <u>or trade name</u> 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.

3.13.1.34. 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}\text{ 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.

**Background/Discussion:** At the 2010 CWMA Interim Meeting, a state regulator stated that oil changing facilities are affecting revenues from legitimate businesses by masquerading as branded facilities, while selling lower-quality oil (refer to Appendix G). The consumer believes they are receiving the advertised brand of oil. At least one branded oil company has investigated certain questionable installers, filed lawsuits, and have successfully closed those suits with installers in the area of trademark infringement and deceptive trade practices. To assist in mitigating these unlawful trade practices and to protect consumers against fraudulent activity, it is recommended that invoice be established. A state regulator questioned if businesses were using the same hose for hydraulic and motor oil, or if the hose would be flushed prior to using it for a different product. He remarked that there would be a contamination factor. The CWMA L&R Committee recommends that the item under consideration move forward to the NCWM L&R Committee for consideration.

## **Original Proposal:**

3.13. Oil.

## 3.13.1. Labeling of Vehicle Motor Oil.

**3.13.1.1. Viscosity.** – The label on each container of vehicle motor oil shall contain the viscosity grade classification preceded by the letters "SAE" in accordance with the SAE International's latest version of SAE J300.

- **3.13.1.2. Intended Use.** The label on each container of vehicle motor oil shall contain a statement of its intended use in accordance with the latest version of SAE J<del>300</del>183.
- **3.13.1.3.** Engine Service Category. The label on each a container of vehicle motor oil container, receptacle, pump, dispenser, or storage tank and the invoice from the sale of vehicle motor oil dispensed from a receptacle, pump, dispenser, or storage tank shall contain the engine service category, or categories, met in letters not less than 3.18 mm ( $^{1}/_{8}$  in) in height, as defined by the latest version of SAE J183 or API Publication 1509, "Engine Oil Licensing and Certification System."
  - 3.13.1.3.1. Exception for Quantities of One Gallon (3.785 L) or Less Inactive or Obsolete Service Categories.—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 The label on a vehicle motor oil container, receptacle, pump, dispenser, or storage tank and the invoice from the sale of vehicle motor oil dispensed from a receptacle, pump, dispenser, or storage tank shall bear a plainly visible cautionary statement in compliance with SAE J183, Appendix A, for obsolete API oil categories 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 SAI J183.
  - 3.13.1.3.2. Tank Trucks or Rail Cars. Tank trucks or rail cars 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.

At the 2010 WWMA Annual Meeting, an industry representative, who submitted this proposal, recommended that the term "pump" be dropped from the language. A state official questioned if checking the labeling on bulk tanks is the responsibility of weights and measures, or is it an industry issue? The Technical Advisor suggested giving consideration to mirroring this same language in the method of sale. The WWMA L&R Committee recognizes that statement of brand is required on liquid measuring devices in HB 44. The WWMA L&R Committee recommends this item be moved forward as Informational item and have it be reviewed by the FALS.

## 3.13. Oil.

- 3.13.1. Labeling of Vehicle Motor Oil.
  - **3.13.1.1.** Viscosity. The label on each container of <u>a</u> vehicle motor oil <u>container</u>, receptacle, <u>dispenser</u>, or storage tank and the invoice from service on an engine that includes the installation <u>of vehicle motor oil dispensed from a receptacle</u>, <u>dispenser</u>, 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.
  - **3.13.1.2.** Intended Use. The label on each container of <u>a</u> vehicle motor oil <u>container</u> shall contain a statement of its intended use in accordance with the latest version of SAE <u>J300</u> J183.
  - 3.13.1.3. Brand The label on a vehicle motor oil container and the invoice 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.
  - 3.13.1.34. Engine Service Category. The label on each container of <u>a</u> vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice from service on an engine that includes the installation of vehicle motor oil dispensed from a receptacle, dispenser, or storage

 $\frac{\text{tank}}{(^{1}\!/_{\!8}\,\text{in})}$  shall contain the engine service category, or categories, met in letters not less than 3.18 mm  $(^{1}\!/_{\!8}\,\text{in})$  in height, as defined by the latest version of SAE J183 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 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.

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 or other documentation provides that information.

At the 2010 SWMA Annual Meeting, Mr. Ferrick, from API, notified attendees that they were seeing a revised proposal. This revision was not presented at the 2010 CWMA and WWMA meetings. Mr. Ferrick supports this item stating that HB 130 has required that labels on motor oil packages identify the oil's SAE viscosity and API performance level. Both of these items are important pieces of information for consumers. The changes proposed for HB 130 are intended to apply the labeling requirements for packaged motor oils to oils sold in bulk. The changes as proposed would require motor oil manufacturers and distributors to identify the oils they deliver, and for installers to identify the oils they dispense. Requiring distributors to identify the motor oils they deliver to installers will help ensure that installers know what they are dispensing, and requiring installers to do the same on their invoices will provide the same level of information for consumers. The SWMA L&R Committee reviewed the revised language submitted, and agreed that the item has merit. It was also noted that the language needs to be similar for the regulations as well as the method of sale in HB 130. The SWMA L&R Committee would like to move this item forward as an Informational item.

At the 2010 NEWMA Interim Meeting, a representative of API spoke in favor of the need to disclose on all motor oil storage vessels and in receipts for oil change services the motor oil information. Currently, consumers may not be sure of what motor oil product they are receiving and may be subjected to fraud. A disclosure requirement would clearly disclose to consumers what they are purchasing and help eliminate any fraud. The NEWMA L&R Committee believes this is a consumer friendly issue, and that requiring retailer invoices for oil change services to disclose the manufacturer, brand name, SAE viscosity, and service requirements is appropriate. Proposed labeling requirements should be included on the agenda as a Developing item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Mr. Ron Hayes, Chairman of FALS, reported that FALS recommends moving the Western (WWMA) language forward. An API representative and submitter of the item also recommend that this revised version presented at the WWMA move forward. The Committee is recommending NCWM adoption of this item.

## 3.13.1. Labeling of Vehicle Motor Oil.

- **3.13.1.1. Viscosity.** The label on each container of <u>a</u> vehicle motor oil <u>container</u>, receptacle, <u>dispenser</u>, or storage tank and the invoice from service on an engine that includes the installation of <u>vehicle motor oil dispensed from a receptacle</u>, <u>dispenser</u>, 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.
- **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**.

- 3.13.1.3. <u>Brand The label on a vehicle motor oil container and the invoice 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.</u>
  - 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.
- **3.13.1.34.** Engine Service Category. The label on each container of <u>a</u> vehicle motor oil container, receptacle, dispenser, or storage tank and the invoice 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 ( $^{1}/_{8}$  in) in height, as defined by the latest version of SAE J183 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 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.
  - 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 or other documentation provides that information.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, it was noted that the title to the SAE and API standards technical title would editorially be added to the proposal. A request was made to change the word "motor" to "engine." A representative with API did not object to these changes. The NEWMA L&R Committee recommended that the item move forward as a Voting item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, the FALS Chairperson noted there is an identical proposal under Item 232-4 for the method of sale. It was remarked by an API representative that some oils have no business in the marketplace because they may cause engine damage. He further noted that it is vitally important for this language to be accepted. The CWMA L&R Committee recommended that this item move forward as a Voting item with the editorial corrections.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, the FALS and L&R Committee received a letter from a stakeholder in support of this proposal (refer to Appendix I). There is a corresponding method of sale proposal under Item 232-4. It was agreed that the title to the ASTM standards would be editorially added into the proposal. A stakeholder requested that the Committee give consideration to implementing the requirement of this information being available on the receipt to a later date. This will allow retailers time to change over their system. During Committee review, it was agreed that the term "motor" would not be changed to "engine." Consideration was given to adding the following language with regard to receipts, "All references to invoice or receipt will be enforceable effective on July 1, 2012," and to add the word "or receipts" after the term invoice (refer to item under Consideration).

During the Voting session, a motion was made to remove Section 3.13.1.3. Brand. The motion to amend failed. The FALS Chairperson commented that brand is an important issue and by removing this section you will continue to facilitate fraud in the marketplace. Also, consumers may not have the required information to verify warranty work if the product identity were eliminated. Engine oils are made up of different blends and stocks unique to each manufacturer. Keeping the Section for Brand within the proposal was supported by several states and opposed by several others.

#### 260 NIST HANDBOOK 133

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

**Source:** Moisture Loss Work Group (MLWG).

Purpose: Provide additional guidance for making moisture allowances for products not listed in HB 133.

#### **Item Under Consideration:**

#### 2.3.8. Moisture Allowances

## e. How is moisture loss handled for products not listed in NIST Handbook 133?

Officials can test products for which no moisture loss guidance has been provided. If studies are a necessity they should be a collaborative effort between officials and industry. Because of the potential impact on interstate commerce, studies should be completed on a nationwide basis and not by individual jurisdictions unless circumstances justify only local consideration.

The amount of moisture loss from a package is a function of many factors, not the least of which is the product itself (e.g., moisture content, texture and density), packaging, storage conditions (e.g., temperature, humidity, and air flow), time, handling and others. If a packaged product is subject to moisture loss, officials must allow for "reasonable" variations caused by moisture either evaporating or draining from the product. Officials cannot set arbitrary moisture allowances based solely on their experience or intuition. Moisture allowances must be based on scientific data and must be "reasonable." Reasonable does not mean that all of the weight loss caused by moisture evaporation or draining from the product must be allowed. As a result of product and moisture variability, the approach used by an official must be developed on a case-by-case basis depending on many factors to include, but not be limited to, the manufacturing process, packaging materials, distribution, environmental influence and the anticipated shelf life of the product.

NIST Handbook 130 provides a starting point for developing a workable procedure in the Interpretation and Guideline Section 2.5.6. regarding "Resolution for Requests for Recognition of Moisture Loss in Other Packaged Products." Most studies involving nationally distributed products will require that products be tested during different seasons of the year and in different geographic locations to develop a nationally recognized moisture allowance. Some studies may require the development of laboratory tests used for inter-laboratory comparisons to establish moisture content in products at time of pack or at the time of inspection.

Moisture loss or gain is a critical consideration for any net content enforcement effort and one that, in most cases, cannot be addressed solely by a field official. If moisture loss issues are to be deliberated, it is the regulatory official's responsibility to resolve the packer's concern utilizing available resources and due process procedures. To fulfill this obligation the official may be required to utilize specialized test equipment and specific laboratory procedures. Additionally, the collection of adequate test data may require product examination over a broad geographical area and consideration of a wide range of environmental factors. If a national effort is required, a coordinated effort involving industry, trade associations, weights and measures officials, and federal agencies may be required. NIST will provide technical support upon request. If studies are a necessity they should be a collaborative effort between officials and industry but may be very time consuming depending on the product. Because of the potential impact on interstate commerce, studies must be completed on a nationwide basis and not by individual jurisdictions unless circumstances justify only local consideration.

**Background/Discussion:** In previous years, the MLWG reviewed draft changes that were developed to revise and update HB 133 (2005). Some of the proposed changes and recommendations were developed to improve the guidance on making moisture allowances. At the 2010 NCWM Annual Meeting held in St. Paul, Minnesota,

Item 260-1 (refer to the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]) was voted through the Conference with the exception of the item under of consideration.

At the 2010 CWMA Interim Meeting, a state regulator stated that HB 133 provides moisture allowance for only a few products. The regulator provided an example where a product was claiming moisture allowance for a product not contained in HB 133. This regulator was provided with only verbal assistance from NIST regarding what was needed to demonstrate the request for moisture allowance. The regulator believes written procedures need to be developed to provide guidance, and a step-by-step protocol developed for determining moisture allowance in a specific product. Another state regulator agreed and commented that determination of moisture allowance needs to be consistent. An industry representative agreed that more guidance is needed, and recommended that the proposal include the necessary information required to demonstrate moisture loss that warrants an allowance. The CWMA L&R Committee recommends that the MLWG continue to develop this proposal.

At the 2010 WWMA Annual Meeting, a county official expressed concern that the existing language is conflicting and does not provide specific guidance to weights and measures officials (i.e., statements that moisture loss should be determined on a case-by-case basis and at the same time calls for a nationwide study). It was recommended that the MLWG focus its effort on developing a clearer criteria and process for determining moisture loss. The WWMA L&R Committee agrees that the following language within the proposal is contradictory and vague and does not provide specific guidance to officials.

- should be a collaborative effort between officials and industry
- should be completed on a nationwide basis
- must be based on scientific data
- must be developed on a case-by-case basis
- may be required to utilize specialized test equipment and specific laboratory procedure
- a coordinated effort involving industry, trade associations, weights and measures officials may be required

The WWMA L&R Committee recommends that this be a Developmental item.

At the both the 2010 SWMA Annual Meeting and the 2010 NEWMA Interim Meeting, both Associations agreed that the item was not developed. It was recommended by both Associations that this moved forward as a Developing item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, the NIST Technical Advisor gave an update that the HB 133 had amendments that were voted in at the July 2010 Conference. However, the item under consideration was pulled back for further development by the Moisture Loss WG. A state official commented that the MLWG needs to continue to develop this item. The NIST Technical Advisor will set up a WG meeting at the 2011 NCWM National Meeting.

The Committee supports the MLWG meeting in July and would like to receive additional input from the regions. The Committee made this an Informational item.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, the NIST Technical Advisor requested information from the region on how they would like to proceed on this item. Currently, the item under consideration stipulates store, data, and test procedure. The NEWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2011 CWMA Annual Meeting held in Grand Rapids, Michigan, a state representative remarked that current moisture loss issues with a company cannot be resolved due to lack of guidance for proper determination. They would like to see an emphasis on national studies and not case-by-case situations. There were recommendations to

form a workgroup or get an organization involved that can assist. This region would like to see an easy, implementable solution on how to demonstrate moisture loss. The Committee would like to see a moisture loss determination for products not currently listed in HB 133. For this reason, the Committee would like to see this as an Informational item.

At the 2011 NCWM Annual Meeting held in Missoula, Montana, a representative of Kraft foods supported this as an Informational item. Kraft will be providing NIST with additional draft language for consideration. It is important that the language be clear as to who is to provide data, what purpose does the data serve, and is it for a specific product on a national or state level. Kraft will develop a detailed proposal to look at a few more principles of establishing moisture allowance. They will also provide recommendations on guidance of four areas in establishing moisture allowance in order to assist inspectors. The NIST Technical Advisor indicated that additional work needs to be done on this item and asks that comments be submitted from the fall regional meetings.

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

(This item was removed from Voting status.

The Committee determined that additional work needs to be done and returned it to Informational status.)

**Source:** Western Weights and Measures Association (WWMA)

**Purpose:** Update HB 133, Chapter 4.7. Polyethylene Sheeting – Test Procedure to provide new density values for heavier density plastics that are currently in the marketplace.

Polyethylene bags labeled as High Density (HDPE) or similar language have been found to package products whose labeled net weights meet calculated target net weights when employing a density factor of 0.92 g/cm³. When a density factor of 0.95 g/cm³ is used, as appropriate, in the calculation for high density polyethylene materials, these products commonly fail to meet the calculated target net weight. Further testing of these packages of polyethylene bags reveals that one or more of the labeled width, thickness, or count statements are inaccurate. HDPE product distributors that place a net weight statement on their packages based upon the Linear Low Density Polyethylene (LLDP) density value (0.92 g/cm³), have an approximately 3 % advantage over the distributor that uses the correct, high density, factor.

**Item Under Consideration:** Amend the asterisked footnote below Step 3 as follows:

\*Determined by ASTM Standard D 1505-98 (or latest issue) "Standard Method of Test for Density of Plastics by the Density Gradient Technique." For the purpose of this handbook regulation, when the actual density is not known (D) is not labeled on the package, the minimum density (D) used to calculate the target net weight for linear low density polyethylene products (LLDP) and products other than high density (HDPE) shall be 0.92 g/cm³ when the actual density is not known. For products labeled High Density, HDPE, or similar wording, that does not specify the minimum density (D) on the package label, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm³.

**Background/Discussion:** A proposal was presented at the WWMA 2009 Annual Meeting in Los Cruces, New Mexico, that manufacturers and distributors of polyethylene bags labeled as "High Density," or HDPE, have been found to package products whose labeled net weights meet calculated target net weights when employing a density factor of 0.92 g/cm<sup>3</sup>. When a density factor of 0.95 g/cm<sup>3</sup> is used, as appropriate, in the calculation for high density polyethylene materials, these products commonly fail to meet the calculated target net weight. Further testing of these packages of polyethylene bags reveals that one or more of the labeled width, thickness, or count statements are inaccurate.

For example, a box of HDPE has stated dimensions of 24 in x 40 in x .4 mil, and a count of 250. Using the only density factor found in HB 133, 0.92 g/cm³, the calculated target net weight, and that shown on the label, would be 6.38 lbs. If using the actual density factor for the HDPE bags of 0.95 g/cm³, the target net weight would be 6.59 lb. This means that HDPE product distributors that place a net weight statement on their packages based upon the

Linear Low Density Polyethylene (LLDP) density value (0.92 g/cm³), have an approximately 3 % advantage over the distributor that uses the correct, high density, factor.

When the original testing procedure was developed, HDPE bags had not yet entered the marketplace. Currently, this product is quite prevalent in the United States. Amending the test procedure will aid weights and measures inspectors in enforcing labeling requirements that allow true value comparisons and close a loophole within HB 133.

#### **Original Proposal:**

\*Determined by ASTM Standard D 1505-98 (or latest issue) "Standard Method of Test for Density of Plastics by the Density Gradient Technique." For the purpose of this handbook, when the actual density is not known, the minimum density used to calculate the target net weight shall be 0.92 g/cm<sup>3</sup> when the actual density is not known. For products labeled "High Density, HDPE, or similar wording, the minimum density (d) used to calculate the target net weight shall be 0.95 g/cm<sup>3</sup>.

The 2009 WWMA Association supports this item and recommends that it be a Voting item.

NEWMA reviewed this item at their 2009 Interim Meeting and proposes this item be a Developing item.

At the NCWM 2010 Interim Meeting, comments were heard on this item and Item 232-1 together at the open hearings. The Committee heard support for the suggestion that the density factor should change from 0.92 g/cm³ to 0.95 g/cm³. A California official stated that the information provided by the WWMA was data extracted from Internet searches. Currently, manufacturers are complaining that under current practice, they cannot compete fairly.

Mr. Jackelen, with Berry Plastics urged the Committee to reject this proposal. Mr. Jackelen stated that 0.92 g/cm³ currently works for manufacturers and that changing it to 0.95 g/cm³ will cause undue cost and waste. Most manufacturers do not make high density (HD) bags, but are producing blends. Mr. Jackelen also stated an additional reason to reject the proposal is 0.95 g/cm³ bags, if punctured will continue to tear.

A Weights and Measures Official stated that if you use the term HD, then you are bound by the 0.95 g/cm³ density. If you use the length x width x thickness x density to determine the net weight, then the density needs to be added to the package labeling. Another official stated that manufacturers should consider disclosing the density factor on every product as part of the labeling. It was voiced that if there are questions about an absolute 0.95 g/cm³ density, then there should be an alternate suggestion. Another official stated that 0.95 g/cm³ will be factored in when the density is not known. The Committee received letters that were reviewed on this item (refer to Appendix B). The Committee recommends moving the item under consideration forward as a Voting item.

At the 2010 NEWMA Annual Meeting in Groton, Connecticut, there was concern that there appears to be a lack of data on this item. It was not reviewed by all regions and not presented to industry to seek comments. The NEWMA L&R Committee felt that this item was not an emergency and would like to review comments received by all the regions and industry.

At the 2010 CWMA Annual Meeting in Springfield, Illinois, there were no comments heard on this item and the CWMA L&R Committee recommends that this item remain a Voting item.

At the 2010 NCWM Annual Meeting in St. Paul, Minnesota, an official stated that his comments were the same as he expressed in Item 232-4 (refer to the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]. The official stated that with the amendments recommended by another official expressed in Item 232-4, they would support this proposal. There is agreement that the role of the Conference is not to determine quality issues, but rather to set testing standards for inspectors. Moving this item to Informational status will allow time to receive additional information and data from manufacturers of polyethylene.

The Committee believes that additional work needs to be done on this item, including reviewing the labeling requirement of polyethylene. This may include requiring a mandatory statement and review of ASTM standards. The status of this item was changed to Informational during the 2010 Annual Meeting.

At the 2010 CWMA Interim Meeting, there were no comments heard on this item. The CWMA L&R Committee recommends that this move forward as an Informational item.

At the 2010 WWMA Annual Meeting, a state official commented that he is in support of this item with the proposed amended changes to replace the existing language with:

\*Determined by ASTM Standard D 1505-98 (or latest issue) "Standard Method of Test for Density of Plastics by the Density Gradient Technique." For the purpose of this handbook regulation, when the actual density is not known (D) is not labeled on the package, the minimum density (D) used to calculate the target net weight for linear low density polyethylene products (LLDP) and products other than high density (HDPE) shall be 0.92 g/cm³ when the actual density is not known. For products labeled High Density, HDPE, or similar wording, that does not specify the minimum density (D) on the package label, the minimum density (D) used to calculate the target net weight shall be 0.95 g/cm³.

The WWMA L&R Committee recommends this item as amended move forward as a Voting item.

At the 2010 SWMA Annual Meeting, there were no comments heard on this item. The SWMA L&R Committee would like to seek additional information and comments from industry, other than the material safety data sheets that were submitted. The SWMA L&R Committee recommends that this item move forward as an Informational item.

At the 2010 NEWMA Interim Meeting, there were no comments heard on this item. The NEWMA L&R Committee would like this item to move forward as an Informational item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, a state official remarked that within their state there are extensive labeling problems with poly-labeling. She recommends that the Committee consider the revised WWMA language. It will provide guidance and language for when the density is not known.

The Committee recommends the revised language from the WWMA for adoption by NCWM.

At the 2011 NEWMA & CWMA Annual Meetings, there were no comments heard on this item and both regions recommended this move forward as a Voting item.

At the 2011 NCWM National Meeting held in Missoula, Montana, it was noted, there is also a corresponding proposal for the method of sale under Item 232-1. A state official expressed concern with the term "when D is not known." Currently, 0.92 g/cm³ is the lower density rating when "D" is not known. The proposed language will allow industry to use products with densities lower than the 0.92 g/cm³. Several states spoke in support of this item since it does provide clarity for the test procedure. This testing can be destructive unless the density is known. A letter from industry was received stating that 0.95 g/cm³ density may not represent the density of HDPW currently in the marketplace. They indicated that 0.948 g/cm³ is a more accurate factor. The Committee believes that additional data from industry needs to be received on the density factors before proceeding with this item. The Committee placed this item back into Informational status.

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

(This item was returned to committee on a split vote)

**Source:** Southern Weights and Measures Association (SWMA)

**Purpose:** Amend HB 133 by adopting a 3 % moisture allowance for macaroni, noodle, and like products (pasta products).

**Item Under Consideration:** Amend HB 133, Chapters 1 and 2, Moisture allowance to be amended as follows and which will incorporate a 3 % moisture allowance for pasta products, adding the language in bold below:

- Chapter 1: Why do we allow for moisture loss or gain?
  - This handbook provides "moisture allowances" for some meat and poultry products, flour, <u>pasta</u> products, and dry pet food.
  - Test procedures for flour, **pasta products**, some meat, and poultry are based on the concept of a "moisture allowance" also known as a "gray area" or "no decision" area.
- Chapter 2: Moisture Allowances:
  - What is the moisture allowance for flour, **pasta products**, and dry pet food? The moisture allowance for flour, **pasta products**, and dry pet food is 3 % of the labeled net weight.

Note: Pasta products means all macaroni, noodle, and like products packaged in Kraft paper bags, paperboard cartons, and/or flexible plastic bags with a moisture content of 13 % or less at the time of pack.

- Chapter 2: How is the average error for the moisture allowance corrected?
  - This handbook provides "moisture allowances" for some meat and poultry products, flour, **pasta products**, and dry pet food.

**Background/Discussion:** Studies indicate that moisture loss for pasta products is reasonably predictable over time. Pasta exhibits consistent moisture loss in all environments and packaging, which can vary more than 4 % due to environmental and geographic conditions. Although it eventually reaches equilibrium with the surrounding atmosphere, because it is hygroscopic, this balance does not occur until long after packaging and shipping.

At the 2010 Interim Meeting, the Committee heard support for this item from industry and stakeholders. If this item is approved, it will also amend the Moisture Allowance Table in HB 133 giving pasta a 3 % moisture allowance. The Committee reviewed the submitted study (refer to the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]). The Committee recommends moving the item under consideration forward as a Voting item.

At the 2010 NEWMA Annual Meeting held in Groton, Connecticut, a representative of the pasta industry gave the group an explanation of the item and expressed support for this item as written. The NEWMA L&R Committee also supports this item.

At the 2010 CWMA Annual Meeting held in Springfield, Illinois, a representative from the National Pasta Association stated the data supports the 3 % moisture allowance. A Weights and Measures Official commented that testing in their state does not support the proposal. An industry representative stated that guidance is needed for an established moisture allowance, and currently there are no guidelines to establish the moisture loss percentage.

At the 2010 NCWM Annual Meeting held in St. Paul, Minnesota, a representative for the National Pasta Association spoke on behalf of the proposal. This item will allow for a specific moisture loss percentage to be taken. Inspectors will now have a specific number that they can apply to the pasta product. Representatives of several pasta companies spoke in support of this item stating that it is consistent with numerous studies that have been done. A state director opposes this item, since pasta is known to have moisture loss due to the type of product it is. He further explained that applying a blanket 3 % moisture loss does not make sense, what may be good in Florida may not be good in New Mexico. A Weights and Measures Official stated that applying the 3 % does not stop an inspector from going into a distribution or point of pack to inspect; especially if the inspectors believe the packer is under filling packages. He urged that this proposal be supported to provide a tool. Another official felt that the proposal should be voted through, it is important to recognize guidelines for consideration. A pasta association representative also agreed that this work goes back a couple of decades, and that several studies were provided for consideration. Another representative explained that they pack to net weight. Pasta contains 10 % to 13 % moisture;

if the moisture standard is lowered the product falls apart along with the product quality. This item neither passed nor failed vote at the National and was returned to the Committee.

At the 2010 CWMA Interim Meeting, a state regulator provided information regarding informal testing of pasta products in their state. The concern is pasta can gain moisture as well as lose moisture; therefore, they oppose a national moisture allowance for pasta products. It was further explained that moisture loss/gain seems to be dependent upon the type of packaging used. This regulator also commented that product is no longer warehoused for long periods of time, and that it is mostly in climate controlled stores, which would prevent the need for a moisture allowance. Another state regulator agreed that a national standard may not be appropriate due to humidity differences from state to state. The CWMA L&R Committee is recommending that this item be Withdrawn.

At the 2010 WWMA Annual Meeting, a state official expressed support for adopting a 3 % moisture allowance for pasta, citing the significant work done and data provided by the National Pasta Association. The WWMA L&R Committee recommends that any additional data from studies be provided for review. The WWMA L&R Committee also recommends that this item move forward as a Voting item.

At the 2010 SWMA Annual Meeting, there were no comments heard on this item. The SWMA L&R Committee agrees that this item be Withdrawn. However, if further studies are developed, then this should be taken into consideration.

At the 2010 NEWMA Interim Meeting, the Conference expressed strong reservations about this proposal. Comments were heard regarding industry practices in regards to moisture loss when packing and if there is a need to codify the moisture loss allowance at all. A member commented that if this proposal passed, other industries would now approach the Conference and ask for specific moisture allowances for their products. The NEWMA L&R Committee recommends that this item be Withdrawn.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, an overview was presented by the National Pasta Association regarding history and studies that have been performed in regard to moisture loss of pasta. Pasta is a hygroscopic product, and changes in moisture content in the product may occur in the package due to atmospheric changes. Hot, dry, and air conditioned store environments have less humidity and will pull moisture from the product. Subsequently; tropical, wet and high humidity environments (seldom seen in U.S. stores) will pull moisture into the product. Pasta companies do pack to the law and have documented weight control programs, according to Ms. Jayne Hoover, with American Italian Pasta Company.

The Committee recommends this item for adoption by the NCWM.

At the 2011 NEWMA Annual Meeting held in Saratoga Springs, New York, a representative of the National Pasta Association gave a briefing on the history of this item. She remarked that pasta is a mixture of flour and water, and that a moisture loss allowance was granted through the Conference for flour. She noted that packages are filled to weight. However, in the distribution process they may lose weight. Some states argued that they cannot support this item, given that the data reflects inconsistent loss. There was a question regarding whether the courts specify that you must grant a percentage when you consider moisture loss. The Committee recommends that the item be Withdrawn and moisture allowance not be considered for pasta.

At the CWMA Annual Meeting in Grand Rapids, Michigan, a state official opposed this item stating that with proper storage and limited items on a store shelf; moisture loss is not an issue. A representative with the National Pasta Association (NPA) stated that within the legal framework, the law requires that reasonable variations due to moisture loss be considered. There is a legal obligation to allow for reasonable variation under good distribution and manufacturing practices. The NPA has made available the pasta study that they believe continues to remain valid. The makeup of the product and the packaging has not changed, in fact, it is moisture that is adding or subtracting weight in the package. A state official questions whether 3 % is the correct number to use and would like to see a bell curve of data. Another state official would like to see data from NPA on whether moisture is different at separate points within the distribution points and shelf life. There was concern expressed that an average is taken rather than taking into account the different regional areas within the United States. A stakeholder remarked that this is a complex issue; however, we need to keep the solution simple. One strategy would be to define what is

necessary to demonstrate moisture loss. Several states commented they are having issues resolving current moisture loss with companies, due to lack of guidance on the procedure for proper determination. The Committee is recommending the item be indicated as Informational.

At the 2011 NCWM Annual Meeting in Missoula, Montana, a representative from the NPA gave a presentation with background information and a brief legal overview on moisture loss. They also distributed a page with frequently asked questions regarding moisture loss in pasta (refer to Appendix I). A follow-up study (refer to Appendix I) that occurred in 2006 - 2007 shows a 2.5 % to 5 % moisture loss. Pasta consists of flour and water. Currently in HB 133 flour is given a moisture loss allowance of 3 %. Pasta is packaged in either breathable film or paperboard cartons. This allows for the pasta to breathe and not mold. The industry is requesting that this proposal be adopted by the Conference to give officials the guidance that is needed when performing inspections.

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

(This item was Withdrawn.)

**Source:** Western Weights and Measures Association (WWMA)

**Purpose:** The WWMA calls for the NCWM to rescind action taken in adopting the provisions of NCWM 2010 L&R Agenda Item 260-2 (refer to Appendix H). The NCWM L&R Committee should undertake, or establish a WG to undertake, necessary studies, laboratory testing, field trials, and other appropriate measures to establish procedures for verification of the accuracy and repeatability of "mechanical seed counter" devices and/or to develop seed count procedures that are practical and reliable for field enforcement activities by Weights and Measures officials.

**Item Under Consideration**: Call for Reconsideration and/or Repeal of action taken at 2010 Annual Meeting of NCWM (refer to the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]) to amend HB 133 Sections 4.2. and to add a new Section 4.11. re: Seed Count Tests.

**Background/Discussion**: At the 2010 NCWM, the L&R Agenda Item 260-2 was not appropriately presented in full for adequate consideration and review by all Conference attendees prior to discussion, debate, and voting. Late into L&R Open Hearing discussions, it was clarified that the item intended to adopt (as the mandated HB 133 testing procedure for verification of the count of packaged corn, soybean, field bean, and wheat seeds) language from Section 12 "Mechanical Seed Count" of the "Rules for Testing Seeds" of the Association of Official Seed Analysts (AOSA) (Appendix F, refer to the "Report of the 95<sup>th</sup> NCWM" [SP 1115, 2010]). The publication of an incomplete proposal and delayed clarification of the full proposal impeded abilities to fully research the proposed testing methods, associated equipment, and to develop points for discussion.

Section 12 of the "Rules for Testing Seeds" (refer to Appendix H) requires multiple, specific, highly technical steps that present significant challenges with which to comply (i.e., opportunities for non-compliant packers to challenge procedures and test results). Additionally, equipment costs are excessive and Weights and Measures officials are not trained or qualified to perform all required tests.

Examples include:

#### Section 12. - Mechanical Seed Count

## **Concerns:**

- Requires use of a "mechanical seed counter."
- Such devices are typically permanently installed in a laboratory setting.
- Extreme care is required for transport of seed counters to the field.
- Device cost is approximately \$8,000.

#### Section 12.1 - Requires samples of 500 grams (soybean/corn/field beans), 100 grams (wheat)

- Instructs that samples are to be "received" in moisture proof containers.
- Samples must be retained in moisture proof containers "until the weight of the sample prepared for purity analysis is recorded."

#### Concerns:

- Above implies that samples are to be transferred to a laboratory for testing.
- Above indicates that sample is intended to be subjected to purity analysis.
- "Purity analysis" is a specific term in the seed inspection arena, requiring highly technical procedures performed by highly skilled technicians.
- Such are not procedures with which Weights and Measures officials are familiar.

#### Section 12.2 - Seed counter calibration

- Must manually count 10 sets of 100 seeds.
- Requires visual examination to ensure that seeds are "approximately the same size and shape as the seeds in a sample being tested."
- Combined sample of 1,000 seeds (manually counted) is passed through mechanical seed counter with device count not to vary more than ± 2 seeds from 1,000.
- If not within ± tolerance, "...clean mirrors; adjust feed rate and/or reading sensitivity... Rerun until within tolerance."

#### **Concerns:**

- Reference to "sample being tested" refers to required "purity analysis."
- Instruction to "rerun until within tolerance" includes no instruction to conduct additional trial counts for repeatability.
- Preliminary counts failing to meet tolerance could, theoretically, be unlimited.
- A single seed counter indication within tolerance may not indicate reliability.

## **Section 12.3 – Sample preparation** (*Emphasis added*)

- "Immediately after opening the moisture proof container, mix and divide the submitted sample, in accordance with Section 2.2, to obtain a sample for purity analysis..."
- "Conduct the purity analysis to obtain pure seed for the seed count test."

#### **Concerns:**

- The term "divide" has specific meaning and requires very detailed procedural requirements set forth in the "Rules for Testing Seed" manual.
- Reference to "...in accordance with Section 2.2..." confirms the above.
- Section 2.2. states: "A suitable type of mechanical divider (conical, centrifugal, riffle, etc.) should be used." These procedures are not addressed in new § 4.11.
- Need for "suitable...divider" presents added expenses/device transport issues.
- Non-mechanical dividing methods permitted by the "Rules for Testing Seed" are labor intensive, very detailed, yet not incorporated into adopted Section 4.11.
- The directive to "conduct the purity analysis" is not followed by any instruction regarding how such is to be conducted.
- "Purity analysis" is a highly technical, detailed procedure with strict guidelines under "Rules for Testing Seed."
- Weights and Measures officials are not trained to perform such analyses.

#### Section 12.4 – Conducting the test

• "...test the pure seed portion from the purity test and record the number of seeds in the sample."

## **Concerns:**

- Above specifies that the count test must be performed using "pure seed from the purity test."
- Again, Weights and Measures officials are not trained or qualified to perform purity analyses. In some states (e.g., California), licensing is required.

**Summary of Concerns**: The procedures adopted at the 2010 NCWM Annual Meeting require skills and expertise (seed purity analysis) for which weights and measures officials are not trained or qualified, and the procedure

provides no instruction whatsoever regarding how a purity analysis is to be performed. Equipment required (mechanical seed counters and dividers) is very costly and not suited for transport to the field. The adopted procedures for calibrating the mechanical seed counters do not address the potential for numerous failed tests (exceeding the  $\pm 2$  tolerance for a 1000-seed sample), followed by a single in-tolerance test and do not require repeatability testing to verify that the device is reliable. Any deviations from the mandated procedures and use of required equipment subject Weights and Measures agencies to challenges to the test findings, and potential liabilities for taking enforcement actions (e.g., "hold" or "off-sale" orders) in violation of procedures. This item was prematurely approved without consideration of all concerns.

At the 2010 WWMA Annual Meeting, the WWMA L&R Committee recommended that this item move forward as a Voting item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, Kurt Floren, Los Angeles, California, gave an overview of the reasons this item was submitted for consideration and/or repeal of action. He believes that the proposal that was voted in at the July 2010 NCWM meeting was deficient in several areas. A state official commented that the presentation brings up several areas that clearly need to be addressed. Several states support this item, but do agree that this is a large enough item to review that a WG should be formed. Other states voiced that this item should not move forward since the current language addresses the need for those states that test seed.

Anita Hall, representing the Association of Official Seed Analyst (AOSA), presented an overview on the history of testing seed and the development of test procedures. Ms. Hall reviewed how the existing HB 133 method is based on the AOSA method. She assured the Conference that the AOSA mechanical seed count method provides a reliable, reproducible, and practical procedure. Ms. Hall offered AOSA assistance in working with the Conference to provide training to weights and measures officials on the adopted procedure. A stakeholder with AOSA addressed some of the concerns presented in Mr. Floren's talk including: the word tolerance used by AOSA means MAV; field versus laboratory testing will need to be a jurisdictions decision.

The Committee recognizes that changes need to be made to the existing language in order to clarify the procedure. The Committee is requesting that a new proposal with modification(s) to existing language be resubmitted through a new proposal (NCWM Form 15). Once a proposal is received by the Committee, they will determine if a Subcommittee for seed needs to be formed. The Committee withdrew this item.

At the 2011 NEWMA, CWMA, and NCWM Annual meeting there were no comments heard on this item.

## 270 OTHER ITEMS – DEVELOPING ITEMS

#### INTRODUCTION

The NCWM established a mechanism to disseminate information about emerging issues which have merit and are of national interest. Developing items are those items that have not received sufficient review by all parties affected by the proposals or may be insufficiently developed to warrant review by the NCWM L&R Committee. The Developing items listed are currently under review by at least one regional association, Subcommittee, or WG.

The Developing items are marked according to the specific NIST handbook into which they fall – HB 130 or HB 133. The Committee encourages interested parties to examine the proposals included in the appendices and to send their comments to the contact listed in each part.

The Committee asks that the regional weights and measures associations, Subcommittees, and WGs continue their work to fully develop each proposal. Should an association, Subcommittee, or WG decide to discontinue work on a Developing item, the Committee asks that it be notified. When the status of an item changes because the submitter withdraws the item, the item will be listed in a table below. For more details on items moved from the Developing items list to the Committee's main agenda, refer to the new reference number in the main agenda.

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

**Source:** The Fuels and Lubricants Subcommittee (FALS)

**Purpose:** Update the Uniform Engine Fuels, Petroleum Products, and Automotive Lubricants Regulation in HB 130. Another task will be to update the Basic Engine and Fuels, Petroleum Products, and Lubricants Laboratory Publication.

**Item Under Consideration:** FALS has met since the 2007 Annual Meeting and continues its work on a number of items in addition to preparing a major revision of the Fuel Ethanol Specifications.

**Background/Discussion:** The Subcommittee met on January 24, 2007, at the NCWM Interim Meeting to undertake a review of a number of significant issues related to fuel standards. Their first project was to undertake a major review and update of the Uniform Engine Fuels, Petroleum Products, and Automotive Lubricants Regulation in HB 130. The Subcommittee also met at the 2007 NCWM Annual Meeting and continued its work on a number of items in addition to preparing a major revision of the Fuel Ethanol Specifications.

An additional project will be to update and possibly expand the Basic Engine Fuels, Petroleum Products, and Lubricants Laboratory Publication. The Subcommittee will undertake other projects as time and resources permit.

At the 2009 NCWM Interim Meeting and Annual Meeting, the FALS Chairman informed the Committee that FALS is working toward getting changes made to the language within the document.

At the CWMA 2009 Interim, the WWMA 2009 Annual, the SWMA 2009 Annual, and the NEWMA 2009 Interim Meetings, there were no comments heard. The Associations recommend that this proposal remain a Developing item.

At the 2010 NCWM Interim Meeting, the FALS Chairman, Mr. Hayes, informed the Committee that FALS is still working on this project. No comments were heard during the open hearings, and the Committee agrees that this item should remain a Developing item.

At the 2010 NEWMA Annual Meeting held in Groton, Connecticut, no comments were heard on this item. The NEWMA L&R Committee recommends that this item remain Developmental.

At the 2010 CWMA Annual Meeting held in Springfield, Illinois, the NIST Technical Advisor provided information that NIST has begun work on the development of a handbook for State fuel laboratories.

At the 2010 NCWM Annual Meeting in St. Paul, Minnesota, a comment from a petroleum representative stated that this item is premature and that action needs to be taken by the EPA. Mr. Hayes, FALS Chairman, clarified that this item is for a laboratory guide and that FALS supports NIST efforts to develop a handbook for state fuel laboratories. The item mentioned by the petroleum representative is for a new proposal that is being submitted through the regions modifying HB 130, as a result of a potential EPA waiver for gasoline containing more than 10 volume percent ethanol.

At the 2010 fall regional meetings, all of the Associations are recommending that this item be a Developmental item.

At the 2011 NCWM Interim Meeting held in Dallas, Texas, the NIST Technical Advisor reported that a draft laboratory guide for state laboratories will be available for distribution and comment by March 2011. The Committee recommended this item move forward as Informational.

Ron Hayes added that FALS is considering a number of new items including:

- Section 3.2.5. possible deletion of altitude adjustment for octane and economy grades
- Section 3.2.4. establish a nozzle requirement for diesel fuel to prevent misfueling of gasoline vehicles

- Section 4.4. establish nozzle color coding system for retail motor fuel dispensers for product identification
- Reference ASTM microbial contamination standards
- Reference ISO 22241.1 NOx Reduction Agent Part 1 Quality Requirements (quality standard for Diesel Exhaust Fluid)
- Section 3.1.2. Retail Dispenser Labelling Review for potential clarification of "gasoline" identity on retail motor fuel dispensers
- Establish regulations to determine if OEM labelled claims for Automatic Transmission & Tractor Fluids are met

At the NEWMA Annual Meeting in Saratoga Springs, New York, the Committee agreed that additional work is needed to establishing a requirement for misfueling.

At the CWMA Annual meeting in Grand Rapids, Michigan, the FALS Chairperson noted the first draft related to misfueling was released for comment on June 6, 2011.

At the 2011 NCWM Annual Meeting in Missoula, Montana, the FALS Chairperson gave an update. FALS is working on the altitude adjustment table. Today's vehicle population requires fuel with the same octane requirements regardless of altitude. A state official expressed concern that unleaded fuel is currently marketed as regular and unleaded 85 octane. FALS is in agreement that ASTM needs to address this issue as it involves pre-1971 vehicles. Currently, all engine manufacturers require no less than 87 octane. The NIST Technical Advisor remarked that a second draft laboratory guide will be made available prior to October 2011 for distribution and review.

If you would like to participate in this Subcommittee, contact Mr. Ron Hayes, Chairman Fuels and Lubricants Subcommittee, at (573) 751-2922, e-mail: ron.hayes@mda.mo.gov, or Mr. David Sefcik, NIST at (301) 975-4868, e-mail: david.sefcik@nist.gov.

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

At the 2011 NCWM Interim meeting held in Dallas, Texas, the Packaging and Labeling Subcommittee (PALS) met for the first time to discuss ongoing issues and agenda items in regards to packaging and labeling regulations. There were 11 attendees that represented industry, state and county regulatory officials, and a NIST Technical Advisor.

The mission of PALS is to assist the Laws and Regulations Committee in the development of agenda items related to packaging and labeling. The Subcommittee will also be called upon to provide important and much needed guidance to the regulatory and consumer packaging communities on difficult questions. The Packaging and Labeling Subcommittee (PALS) will report to the NCWM Laws and Regulations Committee.

The NIST Technical Advisor reported that FTC will do a review of FPLA in 2013.

It was announced at the NEWMA and CWMA Annual meetings that Mr. Chris Guay is the Chair for this Subcommittee and he is actively seeking volunteers. Mr. Guay has requested at least one representative from each region.

At the 2011 NCWM Annual Meeting, this Subcommittee was unable to meet since the Chair was not in attendance. Volunteers were solicited for this Committee.

NCWM has appointed Mr. Chris Guay, Procter and Gamble, to Chair the Subcommittee that will include state or local weights and measures officials and representatives from regulated industries. Anyone interested in an appointment to the Packaging and Labeling Subcommittee, please contact Mr. Guay at (513) 983-0530, e-mail: guay.cb@pg.com or Mr. Sefcik, NIST at (301) 975-4868, e-mail: david.sefcik@nist.gov.

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

Mr. Rob L. Underwood, Associate Member Representative

Ms. Lisa Warfield, NIST Technical Advisor: e-mail: lisa.warfield@nist.gov Mr. David Sefcik, NIST Technical Advisor: e-mail: david.sefcik@nist.gov

## **Laws and Regulations Committee**