



NCWM – NEWS

National Conference on Weights and Measures

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Chairman's Column

John Gaccione, NCWM Chair — Westchester County, New York



Greetings to All.

National Weights and Measures Week

National Weights and Measures this year saluted the weights and measures official. This year's theme "Weights and Measures Officials - Making Sure the Marketplace Measures Up" recognizes the hard work of those officials who make sure consumers get a gallon of gasoline or get the right amount and price when making a purchase by weight or count. We all have heard someone say "I didn't know anybody checks", or "so that's what weights and measures inspectors do". Let's continue to get the word out about how weights and measures officials strive for "equity in the marketplace".

Remember that NCWM can help by providing support to local and state regulatory officials. During my visits to the regional meetings last fall, I reminded the regions that NCWM will help programs reinforce their importance to their states and local jurisdictions. Remember: what a weights and measures official does every day affects every consumer every day.

Initial Meeting Wrap-Up

After one of the busiest and best attended Interim Meetings, NCWM says thanks to our hosts Joe Gomez, New Mexico Weights and Measures staff and to New Mexico Agriculture Commissioner Jeff Witte for his welcoming words. All of the committees, subcommittees and task groups deserve a "pat on the back" for all their hard work. We were introduced to NTEP's new technical specialist, Darrell Flocken and we met Tyler Reeder, NCWM's new project coordinator. Welcome to Darrell and Tyler! And as always thanks to Don, Elisa and Jim for their hard work. Thank you to all who attended the Interim Meet-

ing in Albuquerque. Having Soulshine (Ray Johnson and Rico Smith) perform at the Chairman's Reception was great!

Continuing On Our Way to the Motor City

Next, NCWM is "motoring" along to its 2014 Annual Meeting in Detroit, July 13-17 at the Westin Book Cadillac Hotel. This Annual Meeting is one not to miss. On Sunday, July 13, at least four subcommittees and task groups (Fuels and Lubricant Sub Committee, Natural Gas Steering Committee, Packaging and Labeling Task Group and the Tool Kit Group) will meet. We have scheduled session both in the morning and afternoon on Sunday, to allow interested parties to attend more than 1 session. Take the time to sit in on Sunday's sessions and if you wish to participate in a task group or subcommittee, please let us know.

NCWM's new website is also "motoring" along and providing a wealth of information to members. Looking for something from NCWM? Chances are you can find it on the webpage. Visit www.NCWM.net. NCWM also continues to encourage members to take advantage of the On-line Position Forum; Enhancements have been made to the form allowing members to see comments submitted by other members.

Besides the important business of the conference, Detroit has plenty to offer everyone. Think about the great museums, the rebounding auto industry and its great sports teams. And that Mo-Town sound. I think everyone will be pleasantly surprised. Visit www.visitdetroit.com and www.detroitmi.gov/Visitors.aspx for more information.

Best wishes and see everyone in Detroit!

— John Gaccione,
Westchester County, New York

NCWM Headquarters

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

P. 402.434.4880

F. 402.434.4878

E. info@ncwm.net

W. www.ncwm.net

Don Onwiler Executive Director

Jim Truex NTEP Administrator

Darrell Flocken NTEP Specialist

Elisa Robertson Office Manager

Tyler Reeder Project Coordinator

Are You Protecting Your Back, Fingers and Toes?

by Brett Gurney, Utah

The tasks of employees within a Weights and Measures jurisdiction frequently involve the repetitive handling of heavy weights and other equipment while assuming awkward postural positions in hazardous work environments.

Back safety awareness is necessary due to the prevalence and severity of back injuries throughout business and industry. Backs can be injured by improper lifting, falling and twisting. Back disorders account for a significant amount of human suffering, loss of productivity, and economic burden on compensation systems.

Back disorders can develop gradually as a result of microtrauma brought about by repetitive activity over time or can be the product of a single traumatic event. Because of the slow and progressive onset of this internal injury, the condition is often ignored until the symptoms become acute, often resulting in disabling injury. Acute back injuries can be the immediate result of improper lifting techniques and/or lifting loads that are too heavy for the back to support. While the acute injury may seem to be caused by a single well-defined incident, the real cause is often a combined interaction of the observed stressor coupled with the years of weakening of the musculoskeletal support mechanism by repetitive microtrauma. Injuries can arise in muscle, ligament, vertebrae and discs, either singly or in combination.

Back disorders result from exceeding the capability of the muscles, tendons, discs or the cumulative effect of several contributors:

Contributors to back disorders include the following:

- Reaching while lifting
- Poor posture, how one sits or stands
- Stressful living and working activities, staying in one position for too long
- Bad body mechanics, how one lifts, pushes, pulls or carries objects
- Poor physical condition of job or work station
- Poor design of job or work station
- Repetitive lifting of awkward items and equipment
- Twisting while lifting

- Maintaining bent postures
- Heavy lifting
- Fatigue
- Poor footing, such as slippery floors, or constrained posture
- Lifting with forceful movement
- Vibration, such as with lift truck drivers, delivery drivers, etc.

Lifting heavy items is one of the leading causes of injury in the workplace. Lifting improperly can cause serious injury regardless of the weight of the object or the physical condition of the person lifting the object. Always follow proper lifting procedures to reduce the risk of injury.

Proper lifting makes work easier. You need to "think" about what you are going to do before bending to pick up an object. Over time, safe lifting techniques should become a habit. Instituting proper methods of lifting and handling and other safety measures can protect against injury.

We've probably all seen a small person move heavy objects with apparent ease. Safe lifting of heavy items requires training and practice. The secret lies in taking the proper stance and grip.

Being physically ready to do the job can further reduce the risk of injury. A few basic exercises before starting work can warm up the body and prepare it for strenuous work activities.

Wearing appropriate footwear (steel toed shoes or boots) and work gloves to protect your fingers and toes is an important factor to consider during weights and measures inspections.

When employees use smart lifting practices they are less likely to suffer from back sprains, muscle pulls, wrists injuries, elbow injuries, spinal injuries and other injuries caused by lifting heavy objects.

The following are some basic steps of safe lifting practices:

1. Plan ahead and prepare the area where the object is to be placed. Clear the area of obstructions, debris and tripping hazards. "Good housekeeping" ensures that you won't trip or stumble

over an obstacle. Check that there is enough space for movement, and that the footing is good.

2. Make sure that what you are lifting can be lifted safely.

3. If it is bulky or heavy, get help. Don't attempt the lift by yourself if the load appears to be too heavy or awkward. Size up the load and check overall conditions. You may need to use equipment or ask for assistance from someone to move heavy objects.

4. Move close to the load as you can prior to lifting.

5. Place one foot slightly ahead of the other foot, about 10 to 12 inches. Make certain that your balance is good. Feet should be shoulder width apart, with one foot beside and the other foot behind the object that is to be lifted.

6. Squat down close to the load by bending the knees. Bend the knees; don't stoop.

7. Keep the back straight, but not vertical.

8. Place hands under or around the load, and get a good grip with palms to keep the load from slipping. (Remember: The palms are stronger than fingers.) Grip the load with the palms of your hands and your fingers. The palm grip is much more secure. Make sure fingers are in a clear position from potential injury.

9. Tuck in the chin again to make certain your back is straight before starting to lift. (There is a difference. Tucking in the chin and looking slightly upward straightens the back.)

10. Keep the arms and elbows close to the body while lifting.

11. Use your body weight to start the load moving, and then lift by pushing up with the legs.

12. Gradually lift with strong leg muscles, not the weaker back muscles. This makes full use of the strongest set of muscles.

13. Do not jerk or twist your body while

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lifting and move your feet while you turn. Lift in a smooth manner but not too slow.

14. Keep the load close to the body throughout the movement of the object. Don't twist your body while carrying the load. To change direction, rotate body position by shifting the feet. Do not rotate the back.

15. Organize the load to avoid lifting too high or low.

16. Watch where you are going!

17. Set the load down gradually by bending at the knees. Don't stop to deposit the load on a bench or shelf, place it on the edge and push it into position. Make sure your hands and feet are clear when placing the load.

18. Keep a straight back when lowering the load.

19. Be especially careful when lifting in tight spaces, and protect fingers at all times.

20. If possible, alternate lifting tasks throughout the day so all of the heavy lifting is not done at one time.

21. If necessary, use lifting equipment. If the load is going to be carried more than 10 feet get assistance from a dolly or cart.

Make it a habit to follow the above steps when lifting anything—even a relatively light object.

Back injury prevention training can be helpful for weights and measures employees. A review of the many weights and measures tasks is important to identify potential lifting risks that may cause back injuries. Identify difficult tasks and find resolutions to lessen their risk.

Additional equipment may be needed to lift and carry heavy objects. Weight carts, cranes, loaders, hoists, forklifts, handcarts, dollies, etc. are made for this purpose. All operators should receive proper training on proper operations of lifting equipment. In some instances,

equipment may need to be replaced.

Always use proper lifting techniques. Be safe!

— Brett Gurney,
Utah Department of Agriculture and Food Weights and Measures Program

Source: www.osha.gov

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NTEP: "Certificate Status - Active and Inactive" What is the difference?

What does it mean? by Jim Truex, NTEP Administrator

When going to the NTEP Certificate of Conformance (CC) database one of the search criteria is labeled "Status". Additionally, when viewing search results, one of the column headings is "Status", with an indication of "Active" or "Inactive" for each certificate. A common question asked of NTEP relates to the meaning of the two terms: Active and Inactive. These questions have been posed by Weights and Measures (W&M) administrators, W&M regulatory officials, service agencies, device distributors, manufacturers and certificate holders. The questions are especially pertinent the first part of every year because certificate holders neglect to pay their current NTEP certificate maintenance fees, plus the fact that a total of 37 load cell or weighing element certificates were declared inactive as a result of VCAP. What is the difference? Why is it important information? Does inactive status mean the device installed, approved and in use is no longer traceable to the certificate? Does inactive status mean the certificate is no longer valid? In this article we will answer those questions.

The definitions of active and inactive status are easy to find. NIST Handbook 130, Uniform Regulation for National Type Evaluation, Section 2., defines an "Active Certificate of Conformance" – A document issued based upon testing by a Participating Laboratory, which the certificate holder maintains in active status under the National Type Evaluation Program NIST Handbook 44 (Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices) and test procedures contained in NCWM Publication 14. By maintaining the Certificate in active status, the Certificate holder declares the intent to continue to manufacture or remanufacture the device consistent with the type and in conformance with the applicable requirements. A device is traceable to an active CC if: (a) it is of the same type identified on the Certificate, and b) it was manufactured during the period that the Certificate was maintained in active status. For manufacturers of grain moisture meters, maintenance of active status also involves annual participation in the NTEP Laboratory On-going Calibration Program, OCP (Phase II).

NCWM Publication 14 defines the two terms as follows:

"Active Status" – Devices are being manufactured or remanufactured for commercial application under a NTEP Certificate of Conformance. This means that the Certificate of Conformance is in force with an electronic copy of the Certificate of Conformance issued and distributed and all fees have been paid. (Note: The fees refer to the applicable annual maintenance fee for active NTEP certificates, paid by the certificate holder.)

"Inactive Status" – An inactive Certificate of Conformance is a Certificate which was previously active, but the devices are no longer being manufactured for commercial applications subject to local regulations or laws; however, devices already manufactured, installed or in inventory, but not yet sold, may be used, sold, repaired and resold under inactive Certificates of Conformance.

We can also find the Pub 14 definitions on the NCWM NTEP Certificate of Conformance database search page at www.ncwm.net/ntep/faqs and even though the definitions cited above are not identical, they share the same meaning and intent. Once we have found the definitions we can start to answer the questions posed.

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NTEP: "CERTIFICATE STATUS - ACTIVE and INACTIVE"

What is the difference? What does it mean? by Jim Truex, NTEP Administrator

Question: What is the difference between active and inactive status?

Answer: Active means the NTEP certificate holder intends to continue manufacturing new devices of the same type traceable to the NTEP certificate and has paid the annual maintenance fee. Inactive means the certificate holder has discontinued manufacturing the device type listed on the NTEP certificate.

Question: Why is certificate status important information?

Answer: It is important for W&M administrators and regulators to understand inactive certificates cover devices manufactured prior to the date the certificate became inactive and are: in inventory at the manufacturing facility; in inventory at a distributor's facility; removed from a site for remanufacturing (to the same type) or repair then reinstalled; and resold. Certificate holders must understand that the annual certificate maintenance fee must be paid for each active certificate if they intend to continue manufacturing of the device. Grain moisture meter certificate holders must understand they must pay the annual maintenance fee and participate in the On-going Calibration Program to keep the certificate active. Load cell certificate holders must understand they must pay the annual certificate maintenance fee and submit a VCAP audit report.

Question: Does inactive status mean the device installed, approved and in use is no longer traceable to the certificate?

Answer: No. Devices already manufactured, installed or in inventory, but not yet sold, may be used, sold, repaired and resold under inactive Certificates of Conformance.

Question: Does inactive status mean the certificate is no longer valid?

Answer: No. An inactive certificate is still valid for devices already manufactured, installed or in inventory, but not yet sold and the devices may be used, sold, repaired and resold traceable to the inactive Certificates of Conformance. This is why inactive certificates are still posted and available on the NTEP certificate database.

Question: As an administrator or regulator, if I find a device that has just been installed and the certificate status is "inactive", how can I determine the date when the device was manufactured?

Answer: The NTEP Certificate of Conformance database will tell us the date a certificate became inactive. Some devices include date of manufacture information, but that information is not a Handbook 44 marking requirement, so most do not. The best course of action is to obtain the manufacturer, model and serial number of the device in question. Then contact the NTEP certificate holder who, with that information, should be able to provide the date the device was manufactured.

Hopefully, this article has helped eliminate some of the confusion and answer questions that may have been on your mind. If you have additional questions or would like to discuss the content of this article contact Jim Truex at jim.truex@ncwm.net

— Jim Truex, NTEP Administrator

Committee News 2014 Interim Meeting

Laws and Regulations

Committee by Raymond Johnson Jr.,

Committee Chair, New Mexico

The 2014 Laws and Regulations (L&R) Committee Interim Agenda consisted of 25 items. Presentations and written testimony submitted to the Committee are available on the NCWM website. The Fuels and Lubricants SubCommittee (FALS), Package and Labeling SubCommittee (PALS), Natural Gas Steering Committee and the Moisture Loss Work Group met at the Interim Meeting and reported to the L&R Committee. The Natural Gas Steering Committee continues to meet via teleconference in order to work on all of the S&T and L&R CNG/LNG items.

The L&R Committee designated the status for each of the agenda items as follows:

231 NIST HB 130 – UNIFORM PACKAGING AND LABELING REGULATIONS:

231-1

Sections 6.4., 6.5., 6.7., 6.8.1., 6.8.2., 6.9., and 10.8. Tables

The Committee designated the item as **Informational**. PALS is examining this item and will give new information as the Sub-Committee completes development of the item.

231-2

Section 10.3. Aerosols and Similar Pressurized Containers

The Committee designated the item as **Voting**.

232 NIST HB 130 – UNIFORM REGULATION FOR THE METHOD OF SALE OF COMMODITIES:

232-1

Section 2.20.3. Street Sign Prices and Advertising

The Committee designated the item as **Developing**. The Retail Motor Fuel Dispenser Price Posting and Computing Capabilities Task Group will develop further.

232-2

Section 2.27. Retail Sales of Natural Gas Sold as a Vehicle Fuel

The Committee designated the item as **Withdrawn**.

Laws and Regulations Committee (cont.)

232-3

Section 2.27. Retail Sales of Natural Gas Sold as a Vehicle Fuel

The Committee designated the item as **Voting**.

232-4

Section 2.33. Oil, 2.33.1.4. Engine Service Category, 2.33.1.4.1. Vehicle or Engine Manufacturer Standard, and 2.33.1.4.12. Inactive or Obsolete Service Categories

The Committee designated the item as **Voting**.

232-5

Section 2.XX. Printer Ink and Toner Cartridges Labeling

The Committee designated the item as **Withdrawn**.

232-6

Section 2.30. E85 Fuel Ethanol Flex Fuel Blends

The Committee designated the item as **Voting**.

232-7 2.XX. Diesel Exhaust Fluid (DEF)

The Committee designated the item as **Voting**.

237 NIST HB 130 - UNIFORM ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATIONS:

237-1

Section 1. Definitions - Diesel Liter Equivalent (DLE) and Diesel Gallon Equivalent (DGE)

The Committee designated the item as **Withdrawn**.

237-2

Section 1. Definitions - Diesel Liter Equivalent (DLE) and Diesel Gallon Equivalent (DGE): Compressed Natural Gas

The Committee designated the item as **Voting**.

237-3

Section 1. Definitions - Diesel Liter Equivalent (DLE) and Diesel Gallon Equivalent (DGE): Liquefied Natural Gas

The Committee designated the item as **Voting**.

237-4

Sections 2.1.3. Minimum Antiknock Index (AKI), Section 2.1.4. Minimum Motor Octane Number, and Section 3.2.5 Prohibition of Terms— Table 1.

The Committee designated the item as **Informational**.

237-5

Section 3.11. Compressed Natural Gas and Section 3.12. Liquefied Natural Gas

The Committee designated the item as **Voting**.

237-6

Section 3.13 Oil, 3.13.1.4. Engine Service Category, 3.33.1.4.1. Vehicle or Engine Manufacturer Standard, and 3.13.1.4.12. Inactive or Obsolete Service Categories

The Committee designated the item as **Voting**.

237-7

Section 3.2.7. Documentation for Dispenser Labeling Purposes

The Committee designated the item as **Voting**.

237-8 Section 4.3. Dispenser Filters

The Committee designated the item as **Voting**.

237-9

Section 1. Definitions, Section 2. Standard Fuel Specifications, and Section 3. Classification and Method of Sale of Petroleum Items

The Committee designated the item as **Voting**.

237-10

Section 3.XX. Diesel Exhaust Fluid (DEF)

The Committee designated the item as **Voting**.

260 NIST HB 133:

260-1

Section 3.10. Animal Bedding

The Committee designated the item as **Withdrawn**.

260-2

Section 3.12. Fresh Oysters Labeled by Volume

The Committee designated the item as **Voting**.

260-3

Section 4.3. Paper Plates and Sanitary Paper Products

The Committee designated the item as **Withdrawn**.

270 OTHER ITEMS – DEVELOPING ITEMS

270-1 Fuels and Lubricants Subcommittee

270-2 Packaging and Labeling Subcommittee

270-3 Moisture Allowance Task Group (MATG)

— Raymond E. Johnson, Jr., Committee Chair
New Mexico



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Specifications and Tolerances Committee by Brett Gurney, Utah

The Specifications and Tolerances (S&T) Committee agenda consisted of 28 items. The S&T Committee held an agenda review by conference call on Monday, January 13, 2014 prior to the Interim Meeting. During the Open Hearings the Committee received many comments. The Committee appreciates members' participation at the conference.

310 NIST Handbook 44 – General Code:

310-1 G.S.1. Identification. (Software). The Committee appreciates the work of the Software Sector on this item. The Committee had concerns that this item has remained on its agenda for a long period of time with little progress. If no progress is made in the next year, the Committee plans to withdraw the item from its agenda. The Committee designated this item as **Developing**.

310-2 G-S.5.6. Recorded Representations

The Committee heard multiple comments in support of the item during the open hearing. Many noted that, when a recorded representation is required, providing the customer with different options for recorded receipts is appropriate. The Committee proposes that G-S.5.6. be modified as follows:

G-S.5.6. Recorded Representations. – Insofar as they are appropriate, the requirements for indicating and recording elements shall also apply to recorded representations. All recorded values shall be printed digitally. In applications where recorded representations are required, the customer may be given the option of not receiving the recorded representation. For systems equipped with the capability of issuing an electronic receipt, ticket, or other recorded representation, the customer may be given the option to receive any required information electronically (e.g., via cell phone, computer, etc.) in lieu of or in addition to a hard copy.

(Amended 1975 and 2014)

The Committee designated this item as **Voting**.

320 Scales:

320-1 S.2.1.6. Combined Zero-Tare ("0/T") Key. The Committee heard and agreed with comments indicating concerns with the inclusion of Class III devices and concerns that consumers in those applications would not have a clear indication that tare has been taken; the limitation of zero range; and S.1.1.1.(b) is redundant. If these references are removed, there seems to be no point in making any changes to the paragraph. The Committee designated the item as **Withdrawn**.

320-2 UR.2.4. Foundations, Supports, and Clearance.

During its open hearings, the Committee heard a presentation from the submitter regarding the operation of a railway track scale which does not use rail gaps to separate the live rail portion of the weighing/load receiving element. The Committee also heard that NTEP evaluations have successfully been completed on a device of this design. Based on this information and comments heard during its open hearings, the Committee designated the item as a **Voting** item.

320-3 Part 2.20 Weigh-In-Motion (WIM) Vehicle Scales for Law

Enforcement. The Committee heard comments from USDOT Federal Highway Administration updating the Committee on the progress of the FHA WIM Work Group (WG) in its development of the draft WIM. The Committee looks forward to further development of the draft code by the WG. The Committee designated the item as an **Informational** item.

321 BELT-CONVEYOR SCALE SYSTEMS

321-1 U.R.1.2. Conveyor Installation. The Committee heard comments in support of the proposed changes to UR.1.2. Conveyor Installation. Hearing no opposition to the proposal, the Committee agreed to designate the item as a **Voting** item.

330 LIQUID MEASURING DEVICES

331-1 S.1.6.7. and S.1.6.8. Recorded Representations and UR.3.3. Computing Device. The Committee heard comments in support of the proposed changes to S.1.6.7. and S.1.6.8. and the corresponding proposal to recognize the use of electronic receipts under G-S.5.6. as shown in S&T Agenda Item 310-2. Hearing no opposition to the proposed changes in these items, the Committee designated this item as **Voting**.

330-2 S.1.6.7. Recorded Representations. The Committee heard multiple comments indicating that the current language is adequate to address the scenario outlined in the proposal. The Committee also heard several comments suggesting that this issue would be better addressed as a User Requirement. Based on the lack of support and the questions raised regarding the specific language in the proposal, the Committee designated the item as **Withdrawn**.

330-3 N.4.2.4. Wholesale Devices. The Committee acknowledged comments indicating that it is not practical to conduct tests exactly at the marked minimum flow rate. Based on suggestions heard from the open hearings, the Committee decided to modify the proposal to read as follows:

N.4.2.4. Wholesale Devices. – "Special" tests shall be made to develop the operating characteristics of a measuring system and any special associated or attached elements and accessories. "Special" tests shall include a test at or slightly above the slower of the following rates:

- (a) 20 % of the marked maximum discharge rate; or
- (b) the minimum discharge rate marked on the device.

In no case shall the test be performed at a flow rate less than the minimum discharge rate marked on the device.

The Committee designated the item as **Voting**.

330-4 N.4.2.5. Determination of Error on Wholesale Devices with Multiple Flow Rates and Calibration Factors. The Committee acknowledged that, at the heart of this issue is the need to develop guidance for inspectors and service personnel in the proper use and inspection of systems with multiple calibration factors.

Specifications and Tolerances Committee (cont.)

The Committee believes that, at least initially, work needs to be focused on the development of guidelines and test procedures that could be incorporated into NIST Examination Procedure Outlines. The Committee asks for others interested in this work to contact Ms. Julie Quinn from Minnesota. The Committee looks forward to updates on this work as it progresses. After hearing comments during the open hearings and discussing the item further in its work sessions, the Committee agreed to designate this as **Developing**.

330-5 UR.3.3. Computing Device The Committee heard an update from the NCWM RMFD Price Posting and Computing Capability Task Group regarding the proposals outlined in Item 330-5. The Task Group recognized that Item 330-1 on the S&T Committee's agenda proposes changes to G-S.5.6. Recorded Representations and those proposed changes, if adopted, would affect LMD Code Paragraph UR.3.3. Computing Device. To avoid any redundancies, the Task Group proposed splitting Item 330-5 into two parts: 330-5A and 330-5B. Hearing no comments in opposition to the proposal submitted by the Task Group, the S&T Committee agreed to separate the item into two parts.

330-5A proposes changes to UR.3.3.(c)(1) as shown in S&T Item 330-5 in NCWM Publication 15. The Committee has designated this item as **Voting**.

330-5B was created based upon input from the RMFD Price Posting and Computing Capability Task Group and proposes the following changes UR.3.3.(c)(2):

(c) A dispenser used in an application where a price per unit discount is offered following the delivery is exempt from this requirement, provided the following conditions are satisfied:

(1) The unit price posted on the dispenser and the unit price at which the dispenser is set to compute shall be the highest unit price for any transaction;

(2) All purchases of fuel are accompanied by a printed receipt recorded by the system. for the transaction containing **the receipt shall contain:**

a. the product identity by name, symbol, abbreviation, or code number;
b. transaction information as shown on the dispenser at the end of the delivery and prior to any post-delivery discount including the:

1. total volume of the delivery;
2. unit price; and
3. total computed price of the fuel sale prior to post-delivery discounts being applied.

c. an itemization of the post-delivery discounts to the unit price; and
d. the final total price of the fuel sale.

~~For systems equipped with the capability to issue an electronic receipt, the customer may be given the option to receive the receipt electronically (e.g., via cell phone, computer, etc.).~~

(Added 2012)

(Added 1998) (Amended 1992, 1993, and 2012, **and 2014**)

The Committee designated the item as **Voting**. The Committee also notes that, should Item 310-2, which proposes changes to paragraph G-S.5.6. to recognize electronic receipts not be adopted, the Committee will modify this proposal to retain the reference to electronic receipts prior to presenting this item for a vote at the Annual Meeting.

330-6 UR.4. Maintenance Requirements. The Committee heard multiple comments that this issue is better addressed in the General Code. The Committee believes that it might be more appropriate to consider modifications to the General Code to address the concerns and encourages the submitter to consider pursuing this option as an alternative. The Committee designated this item as **Withdrawn**.

330-7 Part 3.30 Price Posting and Computing Capability and Requirements for a Retail Motor-Fuel Dispenser (RMFD) The Committee expressed appreciation for the TG's hard work. The Committee supports the development of examples that can be included in the NIST EPOs and recognized these as essential to help ensure consistent interpretation of the NIST Handbook 44 provisions and requirements for post-delivery discounts. The Committee agreed that this last task completes the work of the TG. Barring any new issues between now and the Annual Meeting, this item will be dropped from the Committee's agenda in July. The Committee acknowledged that should future issues arise regarding the provisions for post-delivery discounts the Committee may need to request that the TG be resurrected or reconstituted. The Committee designated the item as **Developing**.

331 VEHICLE-TANK METERS

331-1 N.4.2.1. Determination of Error on Vehicle-Tank Meters with Multiple Flow Rates Calibration Factors. The Committee acknowledged that, at the heart of this issue is the need to develop guidance for inspectors and service personnel in the proper use and inspection of systems with multiple calibration factors. The Committee believes that, at least initially, work needs to be focused on the development of guidelines and test procedures that could be incorporated into the NIST Examination Procedure Outlines. After hearing comments during the open hearings and discussing the item further in its work sessions, the Committee agreed to designate this as **Developing**.

331-2 UR.3.2. UR.3. Maintenance Requirements. The Committee heard multiple comments that this issue is better addressed in the General Code. The Committee believes that it might be more appropriate to consider modifications to the General Code to address the concerns and would encourage the submitter to consider pursuing this option as an alternative. The Committee designated this item as **Withdrawn**.
Continued on page 14

Professional Development Committee by Dale Saunders, Virginia

The Professional Development Committee (PDC) presented a brief power point presentation during the opening hearing outlining the PDC agenda. The PDC is committed to providing the highest quality certification and training to the members of National Conference on Weights and Measures and regulatory officials throughout the country.

410 EDUCATION

410-1 Professional Certification Program Professional certifications are offered in many industries as a means of demonstrating competence in a particular field of expertise. Certification may be a means of qualifying an individual for employment or higher pay grade within a profession. The NCWM Professional Certification Program provides confidence that an individual has a strong understanding of U.S weights and measures standards as adopted by NCWM and published in NIST Handbooks, 44, 130 and 133.

To date, the Committee has developed retail motor fuel dispenser, basic package checking and small scales exams. Based upon a 2011 survey, additional examinations will be offered in the following order:

- Vehicle tank meters
- Medium capacity scales
- Large capacity scales
- LPG
- Price Verification

The VTM exam is in development now, as well as the medium and large capacity scale exams. The SME's are writing the questions. The Certification Coordinator is seeking SME's for the LPG liquid measuring exam. A notice about SME's for the price verification exam will come out later this spring. The committee thanks those who have already volunteered to be SME's.

410-2 Training The purpose of this item is to share best practices and approaches to training in response to the broad training needs of weights and measures jurisdictions, and to serve as a link to various training materials on the web. Eventually, it can become a home for the training material program currently under development by the NCWM Board of Directors.

The Committee reported that the Board of Directors has assembled a new work group to be headed by Michael Cleary, former Director of the California Division of Measurement Standards. The group will develop guidance on the scope of training for weights and measures officials, and will report to the PDC. Anyone interested in serving on this working group should contact the NCWM Board of Directors.

The objectives of this group are to:

- Gather subject matter experts
- Identify the core competencies necessary to be a successful weights and measures inspector.
- Develop a comprehensive field training guide comprised of those competencies linked to the handbooks.
- Develop a competency based evaluation process.
- Develop selection criteria for the Field Training Inspectors (FTI) who will manage the field training and their relationship to supervision/management.
- Develop a Routine Observation Form (ROF) that lists basic employee skills during the training period.
- Develop a detailed rating system for the ROF.
- Develop a rating system for the core competencies

checklist.

410-3 Instructor Improvement NIST OWM provided two Train the Trainer courses and trained 37 individuals thus far, as a way to increase the number of trainers available to teach OWM courses. Additional classes will be offered in the future. The training is free, and OWM asks for a minimum commitment from each participant of leading one or two training courses with a NIST OWM trainer in the subsequent year. Expenses involved with teaching the course(s) would be covered by OWM.

410-4 Recommended Topics for Conference The Board of Directors has charged the Committee with recommending appropriate topics for the technical sessions at future Annual Meetings. The Board of Directors asked the PDC to review and prioritize possible presentations and submit those to NCWM Chairman. The Chairman will coordinate with NCWM staff to secure presenters and schedule the sessions.

The Committee acknowledged the continued interest for a presentation on Making Sense of Electronic Receipts and is seeking assistance in identifying a suitable presenter on the topic. A comment was heard from the floor that Price Posting on Retail Motor Fuel Devices should be added to the list so the new changes can be explained.

The Committee recommends the regional associations and NCWM consider offering training on:

- Making Sense of Electronic Receipts
- Training the Trainer in Adult Learning Techniques
- Ethics for weights & measures officials
- Data privacy issues faced by weights & measures officials.

420 Program Management

420-1 Safety Awareness Regional Safety Liaisons should contact the states within their regions to obtain information about the general types of safety problems experienced. Jurisdictions are encouraged to send their safety reports and issues to their Regional Safety Liaison, who in turn will forward them to the PDC.

Below is a list of the Regional Safety Liaisons. Regional Associations should keep the committee updated on current liaison assignments.

- CWMA:** Ms. Julie Quinn, MN Weights and Measures Division
- NEWMA:** Mr. Michael Sikula, NY Bureau of Weights and Measures
- SWMA:** Dr. Matthew Curran, Florida Department of Agriculture and Consumer Services
- WWMA:** Mr. Brett Gurney, Utah Department of Agriculture and Food

The Committee will continue asking the regions to prepare articles for the NCWM Newsletter. The Committee plans to notify the Regional Safety Liaisons as their assignment date approaches.

420-2 PDC Publications The PDC will work with NCWM staff to revamp the NCWM webpage to improve accessibility to PDC publications.

— Dale Saunders, Committee Chair, Virginia

Clean Energy

Brett Barry

North Carolina Dept of Ag

Michael Beal

Kraft Food Group, Inc.

Ann Boeckman

PRO CAL CORPORATION

David Boettner

Yokogawa Corp. of America

Dusty Campbell

Libra Systems, Inc.

Kenneth Cardy

**Virginia Department of
Agriculture and Consumer
Services**

Scott Carson

AM/PM Service

Derek Chan

**New Mexico Department of
Agriculture**

Douglas Chilson

**Mississippi Weights and
Measures**

Adam Choate

Honeywell

Janet Christopher

NGVAmerica

Jeffrey Clarke

Mr. Speedometer Inc.

Matthew Collinson

**ACS-Office of Weights and
Measures**

Brian Crowder

Advanced Digital Data, Inc.

Robert Culbertson

**Mississippi Weights and
Measures**

Gary Cushman

**Rensselaer County Department
of Consumer Affairs**

Laurie Danaher

**Mississippi Dept. of Weights and
Measures**

Scott Deare

Brother International Corporation

James Delahay

Clean Energy

Denis Ding

Scrapright Software

Shon Duty

Aaron Scale Systems, Inc

Keith Elson

**Virginia Department of
Agriculture and Consumer
Services**

Tony Farr

New Mexico Dept of Agriculture

Kirby Garcia

Vivonet Acquisitions LTD.

Bhavraj Ghtura

Mississippi Weights and
Measures

Clay Hammons

**ACS-Office of Weights and
Measures**

Donna Harless

Shell

Scott Hartman

Memphis Weights and Measures

Tracy Harwell

USDA / Milk Market Administrator

Patrick Healy

AC International Cor.

Kerry Huang

**Hudson Count Weights and
Measures**

Amel Ibrahim

**South Dakota Weights and
Measures**

Lori Jacobson

Memphis Weights and Measures

Maurice James

Pivotal LNG

David Jaskolski

Honda R&D Americas, Inc.

Jeff Jetter

**Newton Force Weiging System
Co.Ltd.**

Xudon Jiang

Powell Scales NW

Kevin Jones

**Ohio Department of Agriculture
Division of Weights & Measures**

Michael Kelley

Westchester County

Michael Kelley

Griffith Elder and Co, Ltd

Peter King

**ACS-Office of Weights and
Measures**

John Kirk

BP

David Kovach

**Mississippi Dept of Weights and
Measures**

Michael Kush

Fuzhou Furi Electronics Co., Ltd.

Gary Lan

**Niagara County Weights and
Measures**

Dean Lapp

**Putnam County Consumer Affairs
Nassau County, NY**

John Lee

LW Measurements

Boon Lim

Cardenas Markets, Inc

Robert Lopez

New Mexico Dept of Agriculture

Curtis Lui

Seneca County Auditor's Office

Ron Lutz

New Mexico Dept of Agriculture

Antonio Maestas

**New Hampshire Dept. of Ag:
Markets and Food**

Rebecca Malila

eFueling Technologies, LLC

Marc Marroquin

Afton Chemical

Zachary McAfee

Yamato Scale Co.,Ltd.

Kenji Mitao

**San Diego County, Dept.
of Agriculture, Weights and
Merasures**

Megan Moore

M9 Creations, Inc.

Sterling Moses

Badger Meter Scottsdale

Donald Mundorff

Town of Dartmouth, MA

Paul Murphy

ALPEC

Mindy Newell

Putnam County Consumer Affairs

Jean Noel

Minds Inc

Hugo Normand

North Carolina Dept of Ag

Chad Parker

Cultura Technologies

David Parker

MAPCO Express, Inc.

Brian Parnell

NCR

Dean Peightell

**GSM Steel & Mechanical
Contractors**

Jeremy Pennington

Parker Hannifin

Michael Peters

**ACS-Office of Weights and
Measures**

Kevin Pfeiffer

**Pennsylvania Department of
Agriculture Bureau of W & M**

Laura Phillips

**West Virginia DOL Weights and
Measures**

Wayne Pysh

NCR

Brian Ramsey

Rice Lake Weighing Systems

Patrick Ranfranz

**Inyo & Mono County Weights
and Measures**

Nathan Reade

**National Conference on Weights
and Measures, Inc.**

Tyler Reeder

Ford Motor Company

Charles Richardson

**Virginia Dept of Agriculture and
Consumer Services**

Carl Roberts

**North Reading Weights and
Measures**

Leonard Rose

Loadscan Ltd

Adrian Ruthe

InnoVision Devices LLC

Taylon Schmeling

Shekel Scales Ltd

Offer Shalev

OV Scales & Instruments

Timothy Shannon

Heyl & Patterson, Inc

Raymond Shore

Volkswagen Group of America

Jenny Sigelko

Charge Anywhere LLC

Thami Smires

WEM Automation

Bradley Stokke

Cardinal Scale Mfg. Co.

Matt Stovern

**ACS-Office of Weights and
Measures**

Anthony Sumblin

Kraus Global

Johnathan Taylor

The Kind Group

Johnathan Teller

North Carolina Dept of Ag

Tony Tilley

**Pennsylvania Dept of Ag Bureau
of W & M**

Milton Velazquez

Mettler-Toledo, LLC

Russell Vires

North Carolina Dept of Ag

Scott Wallace

Flint Hills Resources

Tommy Watson

**Mississippi Weights and
Measures**

Rick Wheeler

**ACS-Office of Weights and
Measures**

Peter Widel

Bonavita

Roger Wittmann

NEXTEP Systems, Inc.

Thomas Woycick

**Organization Zhejiang South-
Ocean Sensor Manufacturing
Co., Ltd**

Ginger Wu

**State of Idaho Weights and
Measures**

Kevin Young

onePOS, LLC

Travis Young

Specifications and Tolerances Committee (cont.)

332 LPG AND ANHYDROUS AMMONIA LIQUID-MEASURING

332-1 S.1.4.3. Provisions for Power Loss, S.1.5.1.1. Unit Price S.1.5.1.2. Product Identity., S.1.6. For Retail Motor Vehicle Fuel Devices Only., S.1.7. For Wholesale Devices Only., UR.2.7. Unit Price and Product Identity., and UR.2..8 Computing Device.

The Committee heard comments in support of the proposed changes. The Committee also supports the objective of making changes to align the LPG and the LMD code with respect to requirements for retail motor fuel dispensing applications. The Committee designated the item as **Developing**.

332-2 S.1.5.3. Recorded Representations, Point-of-Sale Systems. The Committee heard no objections to the addition of the proposed paragraph. The Committee believes that the addition of this paragraph will further align the LPG and LMD Codes. The Committee designated the item as **Voting**.

336 Water Meters

336-1 UR.3. Installation Requirements. The Committee heard comments opposing the addition of the proposed paragraph. Comments indicated the language is redundant with corresponding General Code requirements. The Committee designated the item as **Withdrawn**.

337 Mass Flow Meters

337-1 Appendix D – Definitions: Diesel Litter and Diesel Gallon Equivalents (DLE, DGE) The Committee heard comments from the NGV Steering Committee (SC) suggesting the Committee withdraw this item. The submitter of this item (who is also a member of the SC) submitted an alternative item that was intended to replace this item. The Committee designated the item as **Withdrawn**.

337-2 Appendix D – Definitions: Diesel Litter and Diesel Gallon Equivalents (DLE, DGE) for Compressed Natural Gas. The Committee met with the L&R Committee to discuss the comments received on Items 337-1 through 337-5 and corresponding items on the L&R Committee's agenda. The two Committees heard an update from Mahesh Albuquerque, CO, speaking as Chairman of the NCWM NGV Steering Committee. As a result of these discussions, the S&T Committee agreed to the following regarding Items 337-1 through 337-5:

- **Withdraw** Items 337-1 and 337-4 and consolidate the remaining three items (337-2, 337-3, and 337-5) into a single item.
- Ask that the SC rework its proposed changes to NIST Handbook 44 to reflect the comments heard during the Committee's open hearings and in writing.
- Designate the consolidated item as a **Voting** item in anticipation that the SC will present a revised version of the proposed changes to NIST Handbook 44 prior to the publication of the Committee's Interim Report (in NCWM Publication 16).

If the revised version of the code is not presented prior to the publication date of NCWM Publication 16 or agreement

cannot be reached within the SC or the S&T Committee on the revised version, the Committee will designate this item as an **Information** item.

337-3 Appendix D – Definitions: Diesel Litter and Diesel Gallon Equivalents (DLE, DGE) for Liquefied Natural Gas. See comments under 337-2.

337-4 S.1.2. Compressed Natural Gas Dispensers, S.1.3.1.1. Compressed Natural Gas Used as an Engine Fuel, S.5.2. Marking of Gasoline Volume Equivalent Conversion Factor. The Committee heard comments from the NGV Steering Committee (SC) suggesting that the Committee withdraw this item. The submitter of this item (who is also a member of the SC) submitted an alternative item that was intended to replace this item. The Committee designated the item as **Withdrawn**.

337-5 S.1.2. Compressed Natural Gas Dispensers, S.1.3.1.1. Compressed Natural Gas Used as an Engine Fuel, S.5.2. Marking of Gasoline Volume Equivalent Conversion Factor. See comments under 337-2.

354 TAXIMETERS

354-1 USNWG on Taximeters – Taximeter Code Revisions and Global Positioning System-Based Systems for Time and Distance Measurement. While there are no specific proposed changes to the Taximeters Code at this time, it is anticipated that some proposals will be submitted prior to the next cycle of regional weights and measures association meetings in fall 2014. The Committee designated the item as **Developing**.

358 MULTIPLE DIMENSION MEASURING DEVICES

358-1 Measurement of Bulk Material in Open-Top Truck and Trailer Units. The Committee heard a presentation from LoadScan Limited regarding their equipment and received additional background material and information from LoadScan at the meeting. The Committee acknowledged there is not yet a specific proposal to consider and that additional information and input is needed for the development of this item. The Committee designated this item as **Developing**.

360 OTHER ITEMS

The Committee heard updates on these items and agreed to maintain their **Developing** status.

360-1 International Organization of Legal Metrology (OIML) Report

360-2 Appendix D – Definitions: Remote Configuration Capability.

360-3 Electric Vehicle Fueling and Submetering.

I appreciate those who shared comments during the open hearing and express my gratitude for our Committee Members, NIST Technical Advisors, NCWM NTEP Technical Advisor and Measurement Canada Advisor.

— Brett Gurney, Committee Chair, Utah



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Event Calendar

April 2014

NTEP Lab Meeting

Albany, New York
April 1st - April 3rd

May 2014

NEWMA Annual Meeting

Manchester, New Hampshire
May 5th - May 8th

CWMA Annual Meeting

St. Louis, Missouri
May 19th - May 22nd

July 2014

NCWM 99th Annual Meeting

Detroit, Michigan
July 13th - July 17th

August 2014

NTEP Grain-Analyzer Sector Meeting

Kansas City, Missouri
August 20th - August 21st

NTEP Weighing and Software Sectors - Joint Meeting

Atlanta, Georgia
August 26th - August 28th

Be sure to mark your calendar for all the upcoming NCWM, NIST and regional meetings.

September 2014

CWMA Interim Meeting

St. Charles, Missouri
September 8th - September 11th

WWMA Annual Meeting

Portland, Oregon
September 14th - September 18th

October 2014

SWMA Annual Meeting

Raleigh, North Carolina
October 4th - October 8th

NTEP Measuring Sector Meeting

Raleigh, North Carolina
October 7th-October 9th

NEWMA Interim Meeting

Norwich, Connecticut
October 15th - October 16th

NTEP VCAP NOTICE

NCWM is working to identify all active certificates for weighing elements 2000 lb capacity and less, using non-NTEP load cells. As a courtesy, certificate holders are being notified of VCAP requirements and the established time line. Please note that the NCWM Board of Director's does not consider it to be NCWM's responsibility to identify all certificate holders and affected certificates. Certificate holders are responsible for reviewing their active NTEP certificates and compliance with VCAP.

