2016 ISSUE 1

NCWM - NEWS

National Conference on Weights and Measures

INSIDE THIS ISSUE

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Chairman's Column

Jerry Buendel, NCWM Chair — Washington State Department of Agriculture

Dear NCWM Members,

This year's Interim Meeting was a great success. We had highest attendance in many years and outstanding training. Attendance was boosted by the presence of many of California's county officials. We enjoyed their hospitality and had a chance to show the county officials how the conference works. A well-deserved thank you goes to the standing committees, subcommittees, task groups, the NIST technical advisors and the NCWM staff for their work on a high volume of topics and issues. The training at this year's conference was timely and excellent. The Transportation Network System Forum and a panel discussion on credit card skimming devices were the two highlights. Our members sincerely appreciate the time and efforts the panel members made to teach us about these fast moving issues.

The theme for National Weights and Measures Week this year, "Weights and Measures – More than meets the eye", emphasizes the many skills officials bring to protect consumers and promote fair competition. It's eye opening when we take stock of the skills and abilities weights and measures officials have to bring to the job. The range of devices has grown both in number and complexity. In addition to devices we test motor fuel, oil and other automotive products, conduct complex investigations and operate in a more challenging legal environment. We need to continue to deliver the message that weights and measures is a significantly impactful regulatory service in government and it affects people on a regular basis.

I announced at our 100th NCWM Annual Meeting in Philadelphia that we would look at ways to develop standards faster and responsibly so we can respond to a rapidly changing marketplace and meet the needs of industry while safeguarding the interests of consumers. We have taken the first step in this improvement process. A team made up of John Gaccione, Joe Gomez, Matt Curran, Julie Quinn, Bob Murnane, David Calix, Carol Hockert and Don Onwiler will begin by examining our current system. They are charged with outlining our processes, identifying stakeholders and their roles, and measuring the performance of our current system. They will report their findings at our 2016 annual meeting. The next charge for the team will be to identify potential changes and suggest other ways to set standards. Other teams will continue the work with specific recommendations and implementation strategies. The membership will be kept informed throughout each step of the process and may be required to weigh in on bylaw changes. I encourage you to talk to the team and the NCWM board members if you have questions or suggestions on how we can improve.

I am very excited about the progress we are making on certification exams and the goal of writing basic competency exams for service technicians and new inspectors. Under the Professional Development Committee's oversight, NCWM has

Continued on page 2

Chairman's Column (cont.)

deployed three new Professional Certification Exams – Large Capacity Scales, Medium Capacity Scales and Vehicle-Tank Meters. Ross Andersen and the volunteer subject matter experts are now working on Liquefied Petroleum Gas and Price Verification certification exams. Over the past few meetings, our membership requested we publish exams suitable for use by jurisdictions to test service companies and new inspectors. The PDC and the Board are responding to the requests by writing two exams; one for liquid measuring devices and one for scales. They will draw on the bank of questions for the current certification exams for these tests and will work to make them available soon.

A third goal for this year was to make progress on the conference efforts to tell our story. The Toolkit Work Group has moved on this goal. They have secured $10,000 from the Board and the Associate Membership Committee to produce a series of short videos that tell our story. Stephen Benjamin and the staff in North Carolina and have completed a video that shows an inspector conducting package inspections, price verification testing and scale inspections in a grocery store. It ismodeled after one they produced for their agency. The video is generic and any jurisdiction can pick it up off of the NCWM website and make changes for their agency. Next will be a video on our work at gas stations. Check the NCWM website for more tools you can use.

I invite you to attend NCWM's 2016 Annual Meeting in Denver. The meeting is scheduled for July 24 to July 28 at the Grand Hyatt Denver. We'll be close to the Colorado State Capital and a few blocks away from Larimer Square where there are many restaurants and shopping. Our members have lots of work to do and we are constantly looking for ways to make the conferences better. We're doing our best to schedule the Sunday work sessions to give interested members the opportunity to attend more than one session and on Tuesday we'll feature informative sessions on current issues.

At next year's conference, you'll notice a change in the item numbering scheme in Publication 16. We have had to make changes to accommodate the increasing number of categories of issues we are working on. If you have questions or suggestions, let us know.

Thank you again all for your work and dedication. I look forward to seeing you in Denver.

— Jerry Buendel, Chairman, Washington State Department of Agriculture

Safety Recommendations: Climbing Tanker Trucks for Sampling or Inspection

by Mike Sikula, New York

Weights and measures programs across the country are critical to our nation's infrastructure, ensuring equity in the commercial marketplace. While working in the marketplace, officials are sometimes exposed to potentially hazardous situations so safety awareness is critical.

As part of their daily work, officials occasionally have to crawl, climb or squeeze through an area to gain access for sampling, testing or inspection purposes. One of the most dangerous of these activities, in jurisdictions that allow it, is climbing on top of tanker trucks to take a petroleum sample or to perform an inspection of the piping for the metering system. In response to heightened safety awareness in recent years, many jurisdictions have prohibited climbing tanker trucks or have drastically limited the instances of when (or where) it is permitted.

Climbing tanker trucks can not only be a safety concern for weights and measures officials, it may also violate the safety policy of the establishment the inspector is visiting. In fact, a prohibition against climbing tanker trucks is often found at wholesale petroleum terminals. It is highly recommended that any jurisdiction considering climbing a tanker truck discuss this with their own legal department, especially when the activity is against the policy of the establishment or the owner.

With safety and liability concerns regarding climbing tanker trucks on the rise, simply prohibiting this activity may be the wisest decision, but it is also important for jurisdictions that prohibit climbing to understand that this may make it easier for unscrupulous delivery companies to hide fraudulent piping. New York inspectors have seen examples of this type of activity occur and have uncovered pipe valves that were concealed on top of tankers in order to introduce air into systems with disabled air eliminators.

This article is not meant to take a position on a 'to climb' or 'not to climb' policy, but rather identify the concerns on both sides, and stress the importance of comprehensive safety policies and procedures. For jurisdictions that allow inspectors to climb tanker trucks, the following safety actions are recommended:

1. Develop written policies and procedures for climbing tanker trucks.

Examples include:

- Use the three-point system (Both Hands & 1 Foot or Both Feet & 1 Hand).
- Require personal protective equipment (PPE) such as footwear, head protection, slip resistant gloves, etc.
- Always face the tanker when climbing (going up or down).
- Do not carry any items when you climb.
- Maintain a firm grip.

2. Submit the policy to the appropriate agency for review and approval.

3. Only allow inspectors who have completed the program to climb tanker trucks.

Another important consideration is the availability of manifold flush systems that allow drivers to flush hoses without the need to climb on top of tanker trucks. While this does not directly relate to weights and measures duties, it does help protect our counterparts in industry. These systems may also aid the weights and measures official since it allows for much easier return of product during testing.

The New York State Department of Agriculture and Markets Bureau of Weights and Measures is currently developing a safety training program for its inspectors who climb tanker trucks.

Please remember to make safety discussions a part of all your staff meetings.

Laws and Regulations Committee Interim Report

By Rich Lewis, L&R Committee Chair, Georgia

The 2016 Laws & Regulations Committee Interim Agenda consisted of 27 Items. Presentations and written testimony submitted to the committee are available on the NCWM website. The Fuels & Lubricants Subcommittee and the Packaging & Labeling Subcommittee both met at the Interim Meeting and reported to the L & R Committee.

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

VOTING ITEMS

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

232-2 Section 1.5. Meat, Poultry, Fish, and Seafood
232-4 Section 2.4. Fireplace and Stove Wood
232-5 Section 2.10. Softwood Lumber
232-6 Section 2.17. Precious Metals
232-7 Section 2.23. Animal Bedding
232-8 Section 2.27. Retail Sales of Natural Gas Sold as a Vehicle Fuel

237 NIST HB 130 – UNIFORM ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATION

237-1 Section 1.1.36. LNG and Section 3.11. CNG
237-2 Section 2.1.2. Gasoline – Ethanol Blends
237-6 Section 4.3. Dispenser Filters

New Priority Item to Amend NIST HB 130 – Uniform Packaging & Labeling Regulations to have the requirements conform to the language finalized by FTC in their revision to regulations promulgated under the FPLA

260 NIST HB 133

260-1 Section 1.2.1. Inspection Lots, Section 1.3.1. Audit Tests, Section 3.10. Mulch and Soils Labeled by Volume
260-2 Section 2.4. Borax Audit Test
260-3 Section 3.14. Firewood – (Volumetric Test Procedure for Packaged Firewood with a Labeled Volume of 113 L [4 ft 3] or Less) and Stacked Firewood sold by Cord or fractions of a Cord.
260-5 Section 3.15. Test Procedure for Verifying the Usable Volume Declaration on Packages of Animal Bedding

DEVELOPING ITEMS

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

232-1 Section 1. Food Products and Section 2. Non-Food Products
232-10 Electric Watt-hour

260 NIST HB 133

260-6 Recognize the Use of Digital Density Meters
260-7 Incorporating Efficiencies into Inspections

270 OTHER ITEMS

270-1 Fuels & Lubricants Subcommittee
270-2 Packaging & Labeling Subcommittee
270-3 Moisture Allowance Task Group

INFORMATIONAL ITEMS

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

232-3 Section 1.12. Ready –to –Eat Food
232-9 Section 2.XX. Automatic Transmission Fluid

237 NIST HB 130 – UNIFORM ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATION

237-4 Section 2.14. Products for Use in Lubricating Automatic Transmission Fluids and Section 3.14. Automatic Transmission Fluids
237-5 Section 4.1. Water in Retail Engine Fuel Storage Tanks Gasoline – Alcohol Blends, Biodiesel Blends, Ethanol Flex Fuel, Aviation Gasoline, and Aviation Turbine Fuel, and 4.2. Water in Gasoline, Diesel, Gasoline-Ether, and Other Fuels

WITHDRAWN ITEMS

237 NIST HB 130 – UNIFORM ENGINE FUELS AND AUTOMOTIVE LUBRICANTS REGULATION

237-3 Section 2.1.3. Minimum Antiknock Index (AKI), Section 2.1.4. Minimum Motor Octane Number,

260 NIST HB 133

260-4 Section 3.14. Firewood – (Volumetric Test Procedure for Packaged Firewood with a Labeled Volume of 113 L [4 ft 3] or Less) and Stacked Firewood sold by Cord or fractions of a Cord.

NTEP Column: What is a Metrologically Significant Component?

by Darrell Flocken, NTEP Specialist

Often a device manufacturer will ask NTEP what components or parts of their device can be changed without impacting traceability to the NTEP Certificate of Conformance. NTEP has always responded with the same answer; if the component or part of the device has an influence in the ability of the device to perform consistently to *NIST, Handbook 44* Specifications and Tolerances, this component or part is identified as a Metrologically Significant Component or MSC. A change to any MSC must be reported to NTEP.

For example, let us assume you are a manufacturer of a price computing scale typically used in a retail service counter application, such as the deli counter, at your local grocery store. The scale you submitted for NTEP evaluation included a platter that was constructed of a plastic material. Since receiving your NTEP Certificate of Conformance, your customers told you that they would like to use the scale in a different application and have asked you to provide the scale with a platter constructed of stainless steel. In addition, they want the platter to have a drain hole as the commodity being weighed will be wet and they do not want to have to wipe down the platter after each use.

Your engineering team designs a stainless platter with a drain hole that your customer will accept. Now, you must ask yourself if the scale with the stainless steel platter is still traceable to the existing Certificate of Conformance. By NTEP policy, it is not. Since the platter can influence the scales ability to perform consistently, it is considered to be a Metrologically Significant Component. Also, since the platter is now being manufactured from a different material then what was originally evaluated, NTEP must be informed and NTEP policy identifies the need to evaluate the scale with this new platter to ensure continued compliance.

Another example is the size and location of the steel supporting the platform in a floor scale. On occasion, a manufacturer may want to change the design of the understructure to create a lower profile. This may include changing the size or location of the support steel. Is this a change that must be communicated to NTEP? Yes, the design, including the size and location of the support steel and even the thickness of the platform, has an influence on its performance and therefore is considered to be a Metrologically Significant Component.

In most cases NTEP will want to perform testing to confirm that the change does not have a negative influence in the instruments ability to meet the necessary performance requirements. The actual tests necessary to ensure compliance are based on the extent of the design change and can range from a complete re-evaluation to a simple one-time weight test. In some cases, NTEP may determine no testing is necessary.

I referenced weighing instruments in my examples. However, it is important to note that many other instrument types have Metrologically Significant Components and, as the holder of the Certificate of Conformance, it is your responsibility to inform NTEP if a change is made to one of these components.

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- Dynamically calculates Rc/Rt for tare
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WinWam Device Inspection Software is designed to perform and record Handbook 44 inspections WinWam Device Inspection Software supports all devices specified in Handbook 44 including but not limited to: scales, (apothecary, computing, livestock, shipping, vehicles, etc.) meters, LP Gas, LMD, linear devices, timing devices, etc. Whether acceptance or maintenance WinWam calculates tolerances for nearly all tests.

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Damian DeSantiago
Mark Killian

Blackton, LLC DBO Goldstur
Kevin Miller

Cardinal Scale Manufacturing Co.
Kyle Smith

Center for Quality Assurance
Mike Kunselman

Chaney Enterprises, LP
Chris Bunn

Chartered Management Consult and Cranes
Ebenezer Opoku Yeboah

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Victoria Ochoa
Christopher Placek

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Jonathan Peeples
Caleb Stone
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Neill Hyde
Adam Richardson
Justin Rother

Monterey County Ag. Commissioner's Office
Veronica Arroyo
Daniel Marien
Joseph Woodbury

Nanjing Toms Weighing Instrument Co., Ltd.
Ming Tao

National Association of Truck Stop Operators (NATSO)
David Fialkov

Nebraska: FSCP- W&M
Kevin Dandliker
Zachary Leech
Torrey Wilson

Nevada Department of Agriculture, Weights and Measures
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Moses Lal
Jerome Plant
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North Star Scale Service
John Matich

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Ocean County New Jersey
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Michael Roberson

Puran Technologies, Ltd.
Ajit Gandhi

Quemetco, Inc.
David Powell

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Randy Carrera
Ben Redding

Continued on page 10

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Scale Service
Dave Wring

Scales Sales and Services
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Xiamen Loadcell Technology Co., Ltd.
Sandy Wong

Zebra Technologies
Scott Murchison

NCWM thanks you all for getting involved and making a difference in the field of **weights and measures!**

VCAP Compliance Deadline Reminder!

This article is a friendly reminder that the VCAP compliance deadline for **Indicating Elements** is approaching. Two compliance timelines have been defined. They are:

- May 31, 2016 for parent Certificate of Conformance holders
- November 30, 2016 for private labeler Certificate of Conformance holders

These dates may sound like a long way into the future, but we all know time moves faster than most of us want it to. These dates will be here sooner than we realize.

NCWM is working to identify all active certificates subject to VCAP compliance. As a courtesy, affected certificate holders are being notified of VCAP requirements and the established time line. Please note that the NCWM Board of Directors does not consider it to be NCWM's responsibility to notify all certificate holders about affected certificates. Certificate holders are responsible for reviewing their active NTEP certificates and compliance with VCAP.

If you have any questions regarding these dates, VCAP requirements, or how to comply, contact me at your earliest convenience.

My contact information is below:

Darrell Flocken
NTEP Specialist
Email: darrell.flocken@ncwm.net
Phone: +1 614.620.6134

Specifications and Tolerances Committee Interim Report

By Mahesh Albuquerque, S&T Committee Chair, Colorado

At the 2016 Interim Meeting, the NCWM Specifications and Tolerances Committee has set the status of agenda items as follows for the 2016 NCWM Annual Meeting:

VOTING ITEMS

General Code

310-1 G-S.1. Identification. – (Software)
310-2 G-S.9. Metrologically Significant Software Updates

Scales Code

320-2 S.5.4. Relationship of Load Cell Verification Interval to the Scale Division
320-3 N.1.3.3.2. Prescribed Test Pattern and Test Loads for Livestock Scales with More Than Two Sections and Combination Vehicle/Livestock Scales and N.1.3.3.3. Prescribed Test Patterns and Test Loads for Two-Section Livestock Scales

Automatic Bulk Weighing Systems Code

322-2 N.1. Testing Procedures. and T. Tolerances

Liquid-Measuring Devices Code

330-1 S.1.6.3. Return to Zero
330-2 S.X.X Card Operated Retail Motor Fuel Devices.
330-3 N.4.5 Verification of Linearization Factors. All enabled linearization factors shall be verified

Vehicle-Tank Meters Code

331-1 S.1.1.5. Return to Zero, S.1.1.6. Initial Zero Indication – Electronic Devices
331-2 Table S.2.2. Categories of Sealing and Methods of Sealing
331-4 N.4.6 Verification of Linearization Factors. All enabled linearization factors shall be verified

LPG and Anhydrous Ammonia Liquid-Measuring Devices Code

332-1 S.1.4.2. Return to Zero, S.1.4.3. Initial Zero Indication – Electronic Devices.
332-2 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
332-3 S.2.1. Vapor Elimination
332-4 Table S.2.2. Categories of Sealing and Methods of Sealing
332-5 N.3. Test Drafts
332-6 N.4.2.3. For Wholesale Devices
332-7 UR.2.3. Vapor-Return Line

Cryogenic Liquid-Measuring Devices Code

334-1 Table S.252. Categories of Sealing and Methods of Sealing

Milk Meters Code

335-1 Table S.2.2. Categories of Sealing and Methods of Sealing

Mass Flow Meters Code

337-1 Table S.3.5. Categories of Sealing and Methods of Sealing
337-2 Appendix D – Definitions: Diesel Liter Equivalent (DLE) and Diesel Gallon Equivalents (DGE) for Compressed Natural Gas and Liquefied Natural Gas; Definition of Gasoline Gallon Equivalent and Gasoline Liter Equivalent for Compressed Natural Gas; S.1.2. Compressed Natural Gas and Liquefied Natural Gas Dispensers; S.1.3.1.1. Compressed Natural Gas Used as an Engine Fuel; S.1.3.1.2. Liquefied Natural Gas Used as an Engine Fuel; S.5.2. Marking of Diesel and Gasoline Volume Equivalent Conversion Factor; Compressed Natural Gas, S.5.3. Marking of Diesel Volume Equivalent Conversion Factor; Liquefied Natural Gas, UR.3.1.1. Marking of Equivalent Conversion Factor for Compressed Natural Gas, UR.3.1.2. Marking of Equivalent Conversion Factor for Liquefied Natural Gas, and UR.3.8. Return of Product to Storage, Retail Compressed Natural Gas and Liquefied Natural Gas
337-3 N.3. Test Drafts.

Carbon Dioxide Liquid-Measuring Devices Code

338-1 Table S.2.5. Categories of Sealing and Methods of Sealing
338-2 S.3.1. Vapor Elimination

Hydrogen Gas-Metering Devices

339-1 Table S.3.3. Categories of Sealing and Methods of Sealing
339-2 Table T.2. Accuracy Classes and Tolerances for Hydrogen Gas-Measuring Devices

Taximeters Code

354-1 S.1.2. Advancement of Indicating Elements
354-2 S.2. Basis of Fare Calculations
354-3 S.3.2. Flag
354-4 Appendix D - Definitions: Flat Rate and Negotiated Rate

Continued on page 13

S&T Committee Interim Report (cont.)

Multiple Dimensions Measuring Devices Code

358-1 Table S.4.1.a. Marking Requirements for MultipleDimension Measuring Systems, Table S.4.1.b. Multiple MultipleDimension Measuring Systems Notes for Table S.4.1.a

358-2 Table S.4.1.a. Marking Requirements for MultipleDimension Measuring Systems, Table S.4.1.b. Multiple MultipleDimension Measuring Systems Notes for Table S.4.1.a

358-3 S.2.2.1. Maximum Value of Tare for Multi-Interval (Variable Division Value) Devices. S.2.2.2. Net Values, Mathematical Agreement, Table 1: Examples of Acceptable Altering of Tare to Achieve Accurate Net Indication, Table 2: Examples of Acceptable Rounding of the Net Result (Following the Subtraction of Tare) to Achieve Accurate Net Indication, Table S.4.1.a., Marking Requirements for Multiple Dimension Measuring Systems, T.2.3. Multi-interval (Variable Division-Value) Devices., T.2.4. Mixed-interval Devices.

Other Items

360-3 Appendix D – Definitions: Batching System
360-4 Appendix D – Definitions: calibration parameter and multi-point calibrated device

DEVELOPING ITEMS

Automatic Bulk Weighing Systems Code

322-1 A. Application, S. Specifications, N. Notes, UR. User Requirements

325 Weigh-in-Motion Systems Used For Vehicle Enforcement Screening

325-1 A. Application. and Sections Throughout the Code to Address Commercial and Law Enforcement Applications

Liquid-Measuring Devices Code

330-4 Recognized the Use of Digital Density Meters

Vehicle-Tank Meters Code

331-3 S.3.7. Manifold Hose Flush System

Taximeters Code

354-5 USNWG on Taximeters – Taximeter Code Revisions and Global Positioning System-Based Systems for Time and Distance Measurement
354-6 Transportation Network Systems – Draft code

Other Items

360-1 Electric Watthour Meters Code under Development
360-5 Appendix D – Definitions: Remote Configuration Capability

WITHDRAWN ITEMS

Scales Code

320-1 S.1.1.3. Automated Batching Systems

Other Items

360-2 Appendix A – Fundamental Considerations, 2.1. Acceptance and Maintenance Tolerances

National training on Credit Card Skimmer investigations attracted the attention of local news media including 7 television stations at the 2016 NCWM Interim Meeting in San Diego, California.

NCWM Chairman Jerry Buendel, Washington State Department of Agriculture

Craig VanBuren, Michigan Department of Agriculture and Rural Development

Marco Mares, San Diego County Department of Agriculture, Weights and Measures

Professional Development Committee Interim Report

By Angela Godwin, PD Committee Chair, Ventura County, California

The Professional Development Committee (PDC) continues its work to (1) provide the highest quality exams at both the professional and basic level, (2) provide resources for successful training and instructor improvement, and (3) to increase safety awareness for members of the National Conference on Weights and Measures for both regulatory officials and service companies. All items are **Informational (I)**.

410 EDUCATION

410-1 I Professional Certification Program

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*. The PDC continues to work toward its goal to ensure the exams stay current, meaningful, and meet accreditation requirements. The further development of proctoring guidelines and changes in examination protocol include a mandatory "cooling off period" between exam attempts. Additionally, the PDC has developed learning objectives to support basic competency exams for service agents and entry level officials.

The PDC presented the concept of basic exams which include both a *NIST Handbook 44* component and a device component in the following areas:

- Basic Service Agent Competency – Weighing Devices
- Basic Service Agent Competency – Liquid Measuring Devices
- Basic Regulatory Official Competency – Weighing Devices
- Basic Regulatory Official Competency – Liquid Measuring Devices

The basic competency exams will cover general objectives in weighing and measuring.

The next Professional Certification exams to be completed will be Liquefied Petroleum Gas (LPG) and Price Verification, followed by Mass Flow Meters, Packaging and Labeling, and Precision Scales. The PDC is recruiting individuals who are proficient in these disciplines to contact the Certification Coordinator, Ross Andersen through NCWM Headquarters at info@ncwm.net, to facilitate successful creation of these next exams.

NCWM has issued 310 professional certificates from the inception of the Professional Certification Program to September 30, 2015. Of the certificates issued, six have been issued to individuals in the private sector (three for small scales, two for package checking, and one for retail motor-fuel dispensers). The balance of the certificates has been issued to regulators in 30 different states.

410-2 I Training

NIST Office of Weights & Measures is developing a training video for small capacity scales. When completed, the video can be accessed from the NIST home page along with the training video on retail motor fuel dispensers released last year. NIST would like feedback on the training videos and ideas for future training topics. The video can be accessed directly at http://www.nist.gov/pml/wmd/lmdg/training-materials.cfm.

The Committee continues to encourage jurisdictions to utilize the Model Field Training Program available on the NCWM Website. This program outlines methods to evaluate and document training of new inspectors. The sustained collaboration between the States, the PDC, and NIST continues to strengthen the foundation for professional development in the weights and measures community.

410-3 I Instructor Improvement

The responsibility for training employees rests with individual organizations; including weights and measures jurisdictions and industry alike. While NIST and other training groups provide excellent training and resources, organizations must develop and manage their own training to fit the needs of their programs.

Through a NIST-Sponsored Train the Trainer course, trainers from throughout the county have been taught skills to facilitate adult learning. The PDC believes having NIST trained individuals is valuable and will allow for more frequent training opportunities than solely relying on NIST sponsored and presented training. In partnership with NIST OWM, the PDC is beginning work to identify the basic competencies of those trainers and training managers so jurisdictions can find the right people to manage and deliver training internally. Additionally, the PDC supports continuing to have the "trainer" list expanded to include specific disciplines such as CNG. As a reminder, the Associate Membership Committee (AMC) has training funds available to jurisdictions who want to bring in subject matter experts to conduct training. See the guidelines and selection criteria for AMC Training Funds on the NCWM website at:

https://www.ncwm.net/committees/associate-member/training-funds.

Continued on page 14

PDC Interim Report (cont.)

410-4 I Recommended Topics for Conference Training

The Board of Directors has charged the PDC with recommending appropriate topics for the technical sessions at future annual meetings.

The PDC recommends NCWM consider offering training on the following items:

- Software-controlled Weighing and Measuring Systems – the verification of the versions of the software audit trails
- Understanding Transportation Network Systems
- GPS-based measuring Systems – Other Applications
- Vehicle-Tank/Oil truck flush systems
- Credit/Debit Card Skimmers
- CNG/LNG

The PDC also discussed the audiences typically present at NCWM Annual and Interim Meetings, noting inspectors and service personnel are not always able to attend. The PDC suggests similar training be provided at the regional level.

420 PROGRAM MANAGEMENT

420-1 I Safety Awareness

One of the goals of the PDC is to educate jurisdictions on safety issues and to provide resources to help them implement effective safety and health management programs. The PDC intends to use the safety page on the NCWM website (https://www.ncwm.net/resource/safety) as a place for states to share information and resources to help them address each of the major steps in creating and maintaining an effective safety program.

One such resource is the recently published draft of OSHA's Safety and Health Management Program Guidelines (https://www.osha.gov/shpmguidelines/SHPM_guidelines.pdf). This 44 page document is written in plain language and aimed at helping small organizations establish, maintain, and improve safety and health management programs. It provides guidance on the seven core elements of safety and health program management:

- Management Leadership
- Worker Participation
- Hazard Identification and Assessment
- Hazard Prevention and Control
- Education and Training
- Program Evaluation and Improvement
- Coordination and Communication on Multi-employer Worksites

A link to these guidelines is available on the safety page of the NCWM website.

The PDC believes it is important for us to open up dialog with the regions on safety awareness and know how to mitigate or eliminate safety issues. Following the 2016 Interim Meeting, the PDC designed an online survey covering incidents which resulted in lost or restricted time in 2015. NCWM invites jurisdictions to participate in the survey from February 1 – April 30. The results will be reported at the 2016 NCWM Annual Meeting in July. All responses will be confidential. Data will be grouped by region and also reported for the nation as a whole. The committee expects to repeat the survey annually. The intent is to use survey results to identify new hazards and training needs, and to establish a benchmark to measure whether safety is improving over time in the weights and measures field.

Also, the PDC expresses their appreciation for the regional safety coordinators and for the safety-related articles submitted for the NCWM Newsletters.

New Slate of Officers Nominated

The NCWM Nominating Committee chaired by Ron Hayes, Missouri, met at the 2016 Interim Meeting in San Diego, California to select a slate of candidates for officers of NCWM. The Nominating Committee gives careful consideration to professional experience, individual qualifications, conference attendance and participation, and other factors of importance in selecting officers who will lead this organization into the future. Those who are elected will selflessly give of their time and talents for the betterment of the mission of NCWM.

The following slate will be presented for election at the 101st NCWM Annual Meeting this July in Denver, Colorado:

CHAIRMAN-ELECT:
James Cassidy, City of Cambridge, Massacusetts

BOARD OF DIRECTORS ACTIVE MEMBERSHIP - NORTHEASTERN | 5 Year Term:
Steve Giguere, Maine

BOARD OF DIRECTORS AT-LARGE | 5 Year Term:
Julie Quinn, Minnesota

TREASURER | 1 Year Term:
Raymond Johnson, New Mexico

NTEP Certified

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The employees of Liquid Controls (LC) would like to recognize the service provided by the members of the National Conference on Weights and Measures (NCWM). Since we sold our first flowmeter to the United States Air Force in 1956, Liquid Controls has enjoyed considerable success, evolving into a stable, profitable company relied on by both employees and customers. In our 50 plus years of business, we have employed thousands of skilled workers who have crafted millions of quality products that continue to accurately measure liquids for businesses all around the world. Liquid Controls success would have been impossible without the NCWM. By holding LC and all manufacturers accountable, the NCWM plays an indispensable role in sustaining a healthy, competitive marketplace where hard work and craftsmanship are rewarded. The employees at Liquid Controls are proud of, and comforted by, the vital role that the NCWM plays in our industry, and we applaud the proficiency of those at the NCWM who take on that role.

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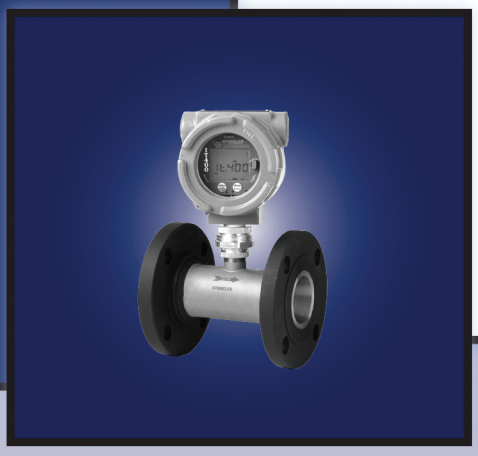

IDEX ENERGY & FUELS

National Conference on Weights and Measures
1135 M Street, Suite 110 / Lincoln, Nebraska 68508

Event Calendar

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

February 2016

NTEP Belt-Conveyor Sector Meeting
Pittsburgh, Pennsylvania
February 23

April 2016

NTEP Lab Meeting
Columbus, Ohio
April 5 - 7

NTEP MDMD WG Meeting
Reynoldsburg, Ohio
April 26 - 27

May 2016

NEWMA Annual Meeting
Portland, Maine
May 16 - 19

CWMA Annual Meeting
Rapid City, South Dakota
May 23 - 26

July 2016

NCWM Annual Meeting
Denver, Colorado
July 24 - 28

August 2016

NTEP Weighing Sector Meeting
Denver, Colorado
August 23 - 24

September 2016

WWMA Annual Meeting
Honolulu, Hawaii
September 11 - 15

NTEP Grain Analyzer Sector Meeting
Kansas City, Missouri
September 13 - 14

NTEP Software Sector Meeting (Joint Meeting)
Kansas City, Missouri
September 14

NTEP Measuring Sector Meeting
Denver, Colorado
September 20 - 21

*Further meeting details will be announced closer to the meeting dates at www.ncwm.net/meetings.