



## 2020 Issue 1

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## Follow Us!



## Chairman's Column

Craig VanBuren, NCWM Chairman — State of Michigan



Dear NCWM Members,

This year's Interim Meeting was another success. We had the highest attendance we have had in many years thanks, in no small part, to the California officials. Thank you for your hospitality and joining us at the meeting. I would also like to extend a thank you to our participants and volunteers, state, local, federal, and private industry, across all the various committees and groups. We cannot be successful without the input and the time you donate to NCWM.

The theme for National Weights and Measures Week this year is "Building Weights and Measures' Future by Sharing our Knowledge". In order to continue to be successful, the weights and measures community must be willing to pass on its knowledge to those coming into the field. We, as an organization, have a vast amount of both technical and historical knowledge that we must share in order to keep from losing it. There are several ways this may be done, but I am focusing on three, in particular: mentoring, marketing, and training. These goals can also be seen in our Strategic Plan which was discussed at length at the Interim Meeting.

There are seven major outcomes we wanted to look at that address a few of the perspectives which were identified and presented at the regional meetings. We were able to discuss and receive input from our members about these outcomes during the meeting. Those outcomes are:

### Outreach to Stakeholders

PERSPECTIVE: Increase stakeholder engagement

### Developing Jurisdictional Outreach

PERSPECTIVE: Increase stakeholder engagement

### Expand Device Types Subject to NTEP Certification

PERSPECTIVE: Expand NTEP/VCAP device categories

### Expand the Scope of the Verified Conformity Assessment Program

PERSPECTIVE: Expand NTEP/VCAP device categories

### Handbooks 44, 130, and 133

PERSPECTIVES: Reduce reliance on NIST, strengthen identity and awareness of NCWM to all stakeholders

### Support Professional Growth

PERSPECTIVE: Improve professional value

### Processes and Procedures

PERSPECTIVE: Improving Standards Development Process Efficiency

*Continued on page 2*

Outreach to stakeholders is something which should be done on an ongoing basis. There are two parts to this plan: proactive and reactive outreach. NCWM should be proactive in seeking out industries and areas that are touched by weights and measures who are unfamiliar with the Conference. There should also be more proactive engagement with those who are familiar with NCWM but need to be reminded of the benefits both parties can provide for one another. Both proactive approaches can be incorporated into a marketing plan, as mentioned in my theme. The reactive approach addresses those areas where an agenda item affects a particular industry. The National Institute of Standards and Technology's (NIST) Office of Weights and Measures (OWM) has been doing this, but having both of us go to these industries can only increase the effectiveness and stress the importance of them being engaged in the process.

A marketing plan to jurisdictions could also encourage increased growth and participation. Additional ideas for jurisdictional outreach include offering a recognition program for those who have 100% membership rates within their organization and publicizing NCWM meetings to weights and measures officials in those areas. We are also suggesting a component of supporting rulemaking in states for membership in order to tout the benefits.

NCWM has been approached by industry to investigate the potential to add more devices to NTEP testing. Two of these device types are medical scales and THC analysis instruments. The scale industry has asked that medical scales be included since there is already a scale code in Handbook 44 and the United States is one of the few countries that does not have standards for these devices. A company that manufactures a portable THC testing NTEP device has inquired what it would take to get their devices certified. Currently, there is no code in the handbook which would apply and therefore, we would need to start with an agenda item for the body to decide whether to proceed down that path.

Expanding the scope of the Verified Conformity Assessment Program (VCAP) will take additional communication with industry and regulators. NCWM will start that conversation to see where it leads. Currently, it would seem this may be a difficult task since only weighing devices are subject to influence factor testing, which is what VCAP looks at.

One very contentious item is exploring the possibility of copyrighting and publishing Handbooks 44, 130, and 133. Benefits of this would be the Conference having responsibly over the entire process of its mission, Ensuring Equity and Uniform Standards in a Changing

Marketplace. This might also increase recognition and promote NCWM. The Conference recognizes this would be a major undertaking, would affect all jurisdictions, and all implications would need to be explored and examined. As we develop the actual "plans" of the strategic plan, I expect this will not be at the top of the priority list.

Supporting the professional growth of our community might just be the most important outcome. This is where we have the ability to share our knowledge with others. NCWM is laying out plans to expand the Professional Certification Program. This will require many subject matter experts to come up with good questions for the exams. We also would like to start providing NTEP training so that officials will better understand the program requirements and be able to interpret NTEP certificates. Additional training opportunities will also be investigated in hopes that we may fill any needed gaps.

Finally, we will look to improve efficiencies within the overall standards development process. Many suggestions were made by the Charter Team and several of those recommendations have been implemented. The Board of Directors has put a hold on adopting any further recommendations as not to make too many changes too fast. Additionally, we are looking at assuming responsibility for drafting and finalizing committee reports. Regardless of whether or not we implement this, there are definitely efficiencies that can be found in this process.

All the information above was presented at the Interim Meeting where the Board of Directors acquired input and feedback from members. That feedback will be considered in our next steps of creating plans for implementation. We will involve our NIST partners as we move forward with the development of these plans. I am excited to see us grow in many ways and to be able to more effectively share our knowledge with more people.

I invite you to attend the 105<sup>th</sup> NCWM Annual Meeting in Tacoma, Washington, July 12 - 16, 2020 at the Hotel Murano. Tacoma is on the banks of the Puget Sound and offers many art and history museums in addition to having a variety of great restaurants.

Thank you to all who volunteer and contribute to the mission of NCWM! I look forward to seeing you in Tacoma this July.



# Professional Development Committee Interim Summary

Marc Paquette (VT), Committee Chair

The 2020 Professional Development Committee Interim Agenda consisted of 5 informational Items. Here is a summary of comments received by the PDC during open hearings and committee direction:

## EDU-1 Professional Certification Program

Jerry Buendel (Washington, Retired) has replaced Ross Andersen as Certification Coordinator. Mr. Andersen did an excellent job in establishing the certification program and provided a smooth transition to Mr. Buendel. All related materials were transferred at the NCWM Annual Meeting in July 2019.

All exams are required to be proctored. A authorized proctors are listed at [www.ncwm.com](http://www.ncwm.com). Certification participants can also read and download exam information from the site and are encouraged to study and practice before taking the exams. Both hard copies and electronic versions of approved materials may be used.

In 2019, two exams were released: LPG & Anhydrous Liquid Meters and Price Verification. The Post Exam Survey was also initiated. There are several projects in progress including certification in Precision Scales and Mass Flow Meter Body of Knowledge. The NCWM Board of Directors continue to explore the possibility of accreditation for the certification program.

There was excellent feedback during open hearings on the certification program. Numerous comments were made regarding some of the challenges of meeting proctoring requirements. Some jurisdictions have been able to transition well while others are facing challenges, often due to differing jurisdictional policies. Mr. Don Onwiler (NCWM) commented there are organizations such as colleges or professional testing centers that may meet some of these needs. Mr. Onwiler also stated the Professional Certification Program has taken a first step in accreditation by contracting with a consulting organization to perform a gap analysis. An update will be given in July. Other comments included concerns that the basic exams are more difficult than some of the other professional certification exams. The PDC discussed these topics and is considering creating consolidated information on proctoring and suggestions on how to best prepare for taking the certification exams. These would be posted on the NCWM website or offered in newsletter format.

## EDU-2 Training

Ms. Tina Butcher, NIST Office of Weights & Measures, gave

an overview of the training that will be held during 2020. Significant Metrology training will be offered in Gaithersburg at the annual Regional Measurement Assurance Programs and during various webinars. Weights & Measures device trainings will be held on devices including High Precision Scales, LPG Systems, Retail Motor Fuel Devices, Vehicle & Axle Load Scales, and Vehicle Tank Meters. NIST also offers webinars on Price Verification, Package and Labeling, and Checking Net Contents of Packaged Goods. A complete list of training can be viewed on the NIST training schedule site. No comments were received on this item. The Committee appreciates all the training opportunities offered by NIST.

## EDU-3 Instructor Improvement

There have been no major changes in this program since the last NCWM meeting. NIST Office of Weights and Measures continues to use external trainers as co-instructors whenever possible. NIST has always expressed appreciation for the trainers who give of their time and expertise and the directors who allow the trainers time away to assist with these courses. Several comments were heard at the open hearings. It was expressed that while financial incentives cannot be given to trainers, the program does serve as professional development and builds confidence of staff who participate.

## EDU-4 Topics for Conference Training

Comments on training topics included the gravimetric testing of motor oil and a class on mass flow meters. Previous suggestions for training also included:

- The review of the NTEP Organization, Process, and Certification System
- Emerging Fuels: EV Hydrogen, LNG/CNG
- Case study of a successful W&M program
- Best practices for finding candidates for metrology

## PMT-1 Safety Awareness

Ms. Julie Quinn has retired and is no longer serving as the PDC Safety Liaison. She did an outstanding job in this area is will be greatly missed. The NCWM is searching for a Safety Awareness Subcommittee Liaison to the PDC. This position offers an outstanding opportunity for professional development and to serve in a leadership role. If interested, please contact Don Onwiler at NCWM.

The Committee continues to promote a culture of safety.



# NTEP Column

## NTEP Technical Policy: How to Propose an Amendment

Darrell Flocken, NTEP Administrator



In the past few months, NCWM has received several requests to grant exceptions to the NTEP Technical Policy. These requests are from instrument manufacturers new to the NTEP process and others with years of experience.

While each request may seem well-founded, it is not possible to deviate from the NTEP Technical Policy. However, it is possible to propose an amendment.

The following paragraphs outline the process of proposing an amendment to NTEP Technical Policy. This process is the same for any NTEP stakeholder.

NTEP Technical Policy appears in the first section for each instrument type in *NCWM Publication 14*. Before submitting a proposal, please familiarize yourself with all parts of the relevant technical policy to ensure it does not unintentionally impact other instrument types covered by the same section.

**Step 1:** Go to [www.ncwm.com/ntep-sectors-work-groups](http://www.ncwm.com/ntep-sectors-work-groups), click on the appropriate sector or workgroup, click the "Meeting Documents" tab and download the "Request for Agenda Item" file.

**Step 2:** Complete the form in its entirety. Clearly define the problem and the justification. The proposal should use strikeouts of words to be deleted and underlines of new words. The "Alternatives Considered" portion should indicate that you have thoughtfully considered other

ways to solve the problem or potential arguments against your proposal. Attachments can include such things as diagrams, supporting data, etc.

**Step 3:** Email the proposal in Microsoft Word format to [info@ncwm.com](mailto:info@ncwm.com). NCWM will forward the proposal to the appropriate technical advisors for inclusion on the agenda of the Sector or Workgroup's next meeting. If necessary, Technical Advisors may contact you for additional information or clarification.

**Step 4:** We highly recommend attending the next Sector or Workgroup meeting as the submitter of the proposal. The technical group will consider the item. All participants will have the opportunity to ask questions and present an opinion in support or opposition to the item. Your presence ensures that the group has a correct understanding of the proposal.

The goal of Sectors and Workgroups is to reach consensus, either in support or opposition. While rare, there are occasions where a group cannot reach clear agreement; in this situation, the Sector or Workgroup Members will vote. The result of the consensus or vote will be recorded in the Meeting Summary.

During the next scheduled NCWM Interim Meeting, the NTEP Committee will review the Meeting Summary and have further discussion. The Committee may adopt the report in its entirety or has the option to omit portions of the recommendations.

If your proposal is approved, NCWM will amend the next edition of *NCWM Publication 14* to reflect the change. If your proposal is not supported by the Sector or Workgroup or not adopted by the NTEP Committee, you have the option to revise your proposal and submit it for the next annual meeting cycle.

## Weights and Measures Week, March 1 - 7!

Each year, the first 7 days of March are dedicated to celebrating the world of weights and measures. These dates are designated to commemorate President John Adam's signing of the first United States Weights and Measures Law on March 2<sup>nd</sup>, 1799. This year's theme is:

***"Building Weights and Measures' Future by Sharing Our Knowledge."***

NCWM will post daily on social media during Weights and Measures Week. We encourage you to share with NCWM, and others, what you are doing to celebrate. ***Mark your calendars!***

# Laws and Regulations Committee Interim Summary

Ethan Bogren (Westchester County, NY), Committee Chair

The 2020 Laws & Regulations Committee Interim Agenda consisted of 22 items. Item Blocks are made up of items considered related in subject matter by which the individual items are companion to each other. During open hearings comments were heard for items contained in blocks as part of testimony for the block as a whole. Presentations and written testimony submitted to the committee are available on the NCWM website. The Fuels and Lubricants Subcommittee and the Packaging and 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

### Uniform Regulation for the Method of Sale of Commodities

- |          |   |
|----------|---|
| MOS-18.2 | Reorganize & create a section for Fuels, Lubricants & Automotive Products |
| MOS-20.3 | 2.X. Diesel Fuel  |

### BLOCK 2 ITEMS (B2)

- |           |   |
|-----------|---|
| MOS-20.1. | 2.XX. Tractor Hydraulic Fluid   |
| FLR-20.1  | 1.XX. Tractor Hydraulic Fluid, 2.XX. Products for Use in Lubricating Tractors and 3.XX. Tractor Hydraulic Fluid |

### BLOCK 3 ITEMS (B3)

- |          |  |
|----------|--|
| FLL-18.1 | Section 8. Prohibited Acts   |
| MOS-18.1 | Section 2.33. Oil  |
| FLR-18.1 | Sections 2.14. Engine (Motor) Oil, 3.13. Oil and 7.2. Reproducibility Limits |

### Uniform Fuels and Automotive Lubricants Regulation

*\*Note: This item was split into two parts.*

- |              |   |
|--------------|---|
| FLR-20.2 (a) | 1.23. Ethanol Flex Fuel                     |
| FLR-20.2 (b) | 2.1. Gasoline and Gasoline-Oxygenate Blends |

## DEVELOPING ITEMS

### Handbook 133

- |          |   |
|----------|---|
| NET-16.1 | Recognize the Use of Digital Density Meters |
| NET-20.2 | 4.5. Polyethylene Sheeting, Bags and Liners |

### Other Items

- |          |                                     |
|----------|-------------------------------------|
| OTH-07.1 | Fuels and Lubricants Subcommittee   |
| OTH-11.1 | Packaging and Labeling Subcommittee |

## ASSIGNED ITEMS

### BLOCK 4 ITEMS (B4)

- |          |                                     |
|----------|-------------------------------------|
| MOS-20.2 | 2.20.2. Document Dispenser Labeling |
| FLR-20.3 | 3.2.5. Document Dispenser Labeling  |

## WITHDRAWN ITEMS

### NCWM Policy, Interpretations and Guidelines

- |          |   |
|----------|---|
| POL-18.1 | Section 2.6.XX. Methods of Sale for Packages of Consumer Commodities – (FTC) and Acceptable Common or Usual Declarations for Packages of Food – (FDA) |
|----------|---|

### Uniform Regulation for the Method of Sale of Commodities

- |          |                                |
|----------|--------------------------------|
| MOS-20.4 | 2.XX. Ink and Toner Cartridges |
|----------|--------------------------------|

## INFORMATIONAL ITEMS

### BLOCK 1 ITEMS (B1)

- |          |  |
|----------|--|
| PAL-19.1 | HB 130, Uniform Packaging and Labeling Regulation, Section 2.8. Multiunit Package                              |
| NET-19.1 | HB 133, Section 1.2.4. Maximum Allowable Variation   |
| NET-19.2 | HB 133, Sections 2.1. Scope, 3.1. Scope, 4.1. Scope and 2.3.7.1. Maximum Allowable Variation (MAV) Requirement |
| NET-19.3 | HB 133, Create a Chapter 5. Specialized Test Procedures  |
| NET-19.4 | HB 133, Appendix F. Glossary   |

### Uniform Regulation for the Method of Sale of Commodities

- |          |                               |
|----------|-------------------------------|
| MOS-20.5 | 2.21. Liquefied Petroleum Gas |
|----------|-------------------------------|

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Fairfield, NJ 07004  
USA

**Anyload Weigh & Measure Inc.**  
6855 Antrim Avenue,  
Burnaby, British Columbia V5J 4M5  
Canada



**RoHS** **CE**

## Coming Up!

### 105<sup>th</sup> NCWM Annual Meeting

July 12 - 16, 2020 | Tacoma, Washington

The Annual Meeting is the high point of our year where all the hard work pays off. At this meeting, stakeholders will debate important proposals to amend the United States standards for weights and measures. When the debating is done, the votes will be cast.

Our committees have their work cut out for them with some very full and diverse agendas. Committee agendas are available at [www.ncwm.com/publication-16](http://www.ncwm.com/publication-16).

#### MEETING LOCATION

Hotel Murano  
1320 Broadway Plaza  
Tacoma, WA 98402

**Group Rate:** \$124

**Reservation Discount Deadline:** June 19, 2020

Click [here](#) to make your online reservation!

#### EVENTS

The **Chairman's Reception** will honor Craig VanBuren from the State of Michigan. The reception will be Sunday, July 12<sup>th</sup>, at 5:30 p.m. Dress is business casual.

The **Special Event** will be held Wednesday, July 15<sup>th</sup>, at LeMay: America's Car Museum! Harold LeMay owned a refuse company, Harold LeMay Enterprises, within the Tacoma metro area. Through it, LeMay amassed the world's largest private car collection. After his death, the city of Tacoma donated 10 acres of land for a museum to hold an impressive collection of vehicles. Among many features, there is a gallery featuring 350 cars notable for their importance to car culture. *Attire is casual.*

**Be sure to Register Online by  
June 19 to secure discounted rates!**

# NCWM Welcomes New Members (9/9/2019 - 2/1/2020)

**Additech**  
Chetan Desai

**American Petroleum Institute**  
Jeffrey Harmening

**Antx Technologies**  
Chenxi Wu

**Arizona Department of Ag: Weights and Measures**  
Thomas Van Breemen

**Assured Automation / Flows.com**  
Justin Rosa

**Backcountry Partners**  
Justin Gilson

**beamLive**  
Bill Lane

**Bleu Tech Enterprises, Inc.**  
Sesie Bonsi

**BLH Nobel**  
Ric Rummel

**Bomzer Associates**  
Allan Bomzer

**California Div. of Measurement Standards**  
Matt Alexander  
Chris Lenert  
Dirk Rudolph

**Carolina Scale Inc.**  
Amy Lawton

**Chengdu Pris Electronic Co., Ltd.**  
Wenyl Du

**City of Cambridge**  
Melissa Dorego  
Kristen Fernandes  
Asuquo Ituen  
Charles Mclsaac  
David Power

**City of Fort Wayne**  
Mark McClurg

**City of Gloucester**  
Donald Belanger

**City of Lawrence**  
Michael LaFrance

**City of Melrose**  
William Kotowski

**Colorado Div. of Oil and Public Safety**  
Daniel Cannell

**CON-E-CO**  
Matthew Peterson

**County of Monterey**  
Henry Gonzales

**Dexen**  
Joslyn Teng

**Easy Weigh USA, Inc.**  
Tom Kim

**Express Business Solutions Inc.**  
Pearl Lee

**Foster Farms**  
Sharon Cox

**G.T. Michelli Company, Inc.**  
Patrick Jester

**GilbarcoVeeder-Root**  
Tara Pandey

**GK Software**  
Kirk Bruno

**Hancock County Auditor's Office**  
Scott Wilson

**Heartland Restaurant**  
Steve Ledesma

**Honeywell**  
James Hensley  
Satish Kumar

**Independent Lubricant Manufacturers Association**  
Matthew Levetown

**Interstates**  
Chris Albers

**Iowa Dept.of Agriculture/ Weights and Measures**

Mark Bickal  
Aaron Ellensohn  
Brian Fuller  
Todd Richardson  
Steve Hatfield  
Crystal Hayes  
Maury Noonan  
Larry Pudenz  
Eric Rauch  
Wesley Sommerfeldt  
Gary Vais

**Kahler Automation**  
Chris Stegge

**Kinder Morgan**  
Russ Kinzig

**KIT Enterprises**  
Gahl Oren

**Kubat Equipment**  
Nicholas Brown  
Kyle Shepard

**L.A. County Ag. Comm/ Weights and Measures**

Ivan Gonzalez  
Aaron Hunt  
Takla Mankarious  
Morgan McCollough  
Huaxin Quan  
Karina Ramirez  
Anh Ton

**Lake County Weights and Measures**  
Mariel Chambers

**LEM Intellectual Property SA**  
Wolfram Teppan

**LMI Technologies**  
Ekin Nalbantoglu

**Lorain County Auditor**  
Jason Kelleher

**Louisiana Department of Agriculture & Forestry**

Holly Freeman  
Michael Howell  
Jason Huntington  
Zachary Shupe

**LTS Scale Company**  
Marsha Hayes

**Lynx Labeling Inc.**  
Danny Jones

**Marel Ltd.**  
Andrew Gooddard

**Maryland Department of Agriculture**  
Alison Wilkinson

**Mendocino County AG/ Sealer**  
Jim Donnelly

**Merced County Weights and Measures**  
Conor Warde

**Mettler Toledo, LLC**  
Jessica Ferree  
Eric Wechselberger

**Missouri Department of Agriculture**

Julie Harris  
Paul Lawrence  
Austin McGinnis  
Kayla Otto  
Michelle Schuman  
Jordan Skjei  
Corey Whitaker

**Montana Weights and Measures**  
Donald Briggs  
Jason Kelly

**NCR Corporation**  
Eric Bethel

**New Hampshire Dept. of Agriculture Markets & Food**  
Erik Stanton

*Continued on page 9*

# EVENT CALENDAR 2020

## March

### NTEP Lab Meeting

Annapolis, Maryland  
March 26 - 28

## May

### NEWMA Annual Meeting

Saratoga Springs, New York  
May 4 - 7

### NTEP MDMD Meeting

Reynoldsburg, Ohio  
May 5 - 6

### CWMA Annual Meeting

Wisconsin Dells, Wisconsin  
May 18 - 21

## July

### 105<sup>th</sup> NCWM Annual Meeting

Tacoma, Washington  
July 12 - 16

## August

### NTEP Grain/Software Meeting

Kansas City, Missouri  
August 11 - 12

### NTEP Weighing Meeting

San Antonio, Texas  
August 18 - 19

## September

### NTEP Measuring Meeting

San Antonio, Texas  
September 22 - 23

### WWMA Annual Meeting

Golden, Colorado  
September 27 - October 1

## Looking Forward...

### 2021 NCWM Interim Meeting

January 10 - 13 | St. Pete Beach, Florida

The Interim Meeting is where our standing committees come together to hear testimony on new proposals brought forth from the regional meetings as well as carryover items from the previous year. In addition, the committees will determine the status of each item for the voting session of our Annual Meeting in July. Presentations, testimony, and work sessions will occur through the week.

Committee agendas will be available at [www.ncwm.com/publication-15](http://www.ncwm.com/publication-15).

### MEETING LOCATION

Sirata Beach Resort & Conference Center  
5300 Gulf Blvd  
St. Pete Beach, FL 33706

**Group Rate:** \$139

**Reservation Discount Deadline:** December 15, 2020

### EVENTS

The **Chairman's Reception** will honor Hal Prince from the State of Florida. The reception will be Sunday, January 10<sup>th</sup>, at 5:30 p.m. Dress is business casual.

**Register Online today at**  
[www.ncwm.com/events-detail/2021-interim-FL](http://www.ncwm.com/events-detail/2021-interim-FL)

**December 15**  
**deadline to secure discounted rates!**



# NCWM Welcomes New Members (cont.)

**New York Department of Agriculture and Markets**

David Diegelman

**Next Century**

Sara Hansen

**North American Solutions**

Vlad Kryvdyk

**Ohaus Corporation**

Alwyn Go

**Orange County**

Zachary Kelly

Juan Lopez

**Parata Systems, LLC**

Michael Thompson

**Parity Factory**

Sean Clemmons

**Poul Tarp Inc.**

Carey McMahon

**Radwag USA**

Ernesto Garcia

**Reno Scales**

Sam Walker

**Restaurant Technologies**

Thomas Kolman

Jamison Kortas

**Rice Lake Weighing Systems, Inc.**

Brandi Harder

**RPOWER Holdings, Inc.**

John Balazs

**Rustys Weigh Scale**

Aaron Bennett

**Ryco Equipment, Inc.**

Erik Murphy

**Sacramento County Agriculture Department**

Chrisandra Flores

**Sacramento County Weights and Measures**

Parminder Malhi

**San Bernardino County Agriculture, W & M**

Christian Calvillo

Emilio Lopez

**San Diego County: Weights and Measures**

Narriman McNair

**SCADAmetrics**

James Mimlitz

**SellEton.com LLC**

Dara Nazery

**Sensus**

Andrew Dudley

**Shortall Meter, LLC**

Sean Shortall

**Stark County Weights and Measures**

Steven Yoder

**Step toe & Johnson LLP**

Jessica Friend

**Strong Industries, Inc.**

David Gandaria Jr.

**Tennessee Dept. of Ag.**

Daniel Walker

Ryan Walker

**Tesla**

Francesca Wahl

**The Kroger Co.**

Dion Perkins

**Thompson Scale Company**

Alan Vaught

**TMT Engineering**

Won Joon Choi

**Town of Falmouth**

Kevin Murphy

**Trimble Inc.**

Paul Corder

**TruckPay Inc.**

Barry Honig

**USA Measurements**

Fred Hermann

**Verifone, Inc.**

Kevin Dupuis

**Virginia Dept. of Agriculture and Consumer Services**

Michael Fallin

Felicia Shelton

Jordan Watson

**Yargus Manufacturing**

Josh Woods

## New Slate of Officers Nominated

The NCWM Nominating Committee announced the 2020 nominees to the Board of Directors at the Interim Meeting in Riverside, California. 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 NCWM mission.

The following slate will be presented for election at the 105<sup>th</sup> NCWM Annual Meeting this July in Tacoma, Washington:

**NCWM CHAIRMAN-ELECT**

Ivan Hankins (IA)

**BOARD OF DIRECTORS, TREASURER**

Ray Johnson (NM)

***Congratulations to you all  
on your nominations!***

# Specifications and Tolerances Committee Interim Summary

Loren Minnich (KS), Committee Chair

The 2020 Specifications and Tolerances Committee Interim Agenda, along with presentations and written comments provided to the Committee, are available at [www.ncwm.com](http://www.ncwm.com). Oral comments for these agenda items were heard during the open hearing session at the Interim Meeting and all of the aforementioned were considered by the Committee when assigning the following status for each item as follows:

## VOTING ITEMS

### Scales Code

SCL-17.1	S.1.8.5. Recorded Representations, Point of Sale Systems, Appendix D-Definitions: tare
SCL-19.2	T.N.3.6. Coupled-In-Motion Railroad Weighing Systems., T.N.4.6. Time Dependence (Creep) for Load Cells during Type Evaluation., UR.5. Coupled-in-Motion Railroad Weighing Systems. and Appendix D – Definitions: point based railroad weighing systems
SCL-20.10	S.1.2.2.2. Class I and II Scales Used in Direct Sale & S.1.2.2.3. Deviation of a “d” Resolution
SCL-20.13	N.1.5. Discrimination Test

### Liquid Measuring Devices Code

LMD-19.1	UR.4.2. Security for Retail Motor-Fuel Devices
LMD-20.2	S.1.6.10. Automatic Timeout – Pay-at-pump Retail Motor-Fuel Devices

### LPG/Anhydrous Ammonia Liquid Measuring Devices Code

LPG-20.1	S.2.5. Zero-Set-Back Interlock and S.2.6. Automatic Timeout
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### Water Meters Code

WTR-20.1	S.3.2. Meter Size and Directional Flow Marking Information
WTR-20.2	S.1.1.4. Advancement of Indicating and Recording Elements

### Mass Flow Meters Code

MFM-20.1	S.1.3.3. Maximum Value of Quantity Divisions
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### Electric Vehicle Fueling Systems Code

EVF-19.1	S.3.5. Temperature Range for System Components. and S.5.2. EVSE Identification and Marking Requirements
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### Timing Devices Code

TIM-20.1	S.1.1.3. Value of Smallest Unit
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### Grain Moisture Meters 5.56 (A)

GMA-20.1	S.2.5. Provisions for Sealing
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### Multiple Dimension Measuring Devices Code

MDM-20.1	S.1.3., S.1.6., S.1.7. Minimum Measurement, S.1.8. Indications Below Minimum and Above Maximum, S.2. Design of Zero Tare Dimensional Offset and Appendix D – Definitions: dimensional offset
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### Other Items

OTH-20.1	Appendix D - Definitions: submeter
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## DEVELOPING ITEMS

### BLOCK 2 ITEMS (B2)

GEN-20.1	G-T.3. Application, Appx. D - Definitions: true value
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### Scales Code

SCL-20.9	S.1.1.3. Zero Indication, Load Receiving Elements Separate from Weighing Elements. and Appendix D – Definitions: no load reference value
SCL-20.12	Multiple Sections to Add Vehicle Weigh-in-Motion to the Code and Appendix D – Definitions: vehicle scale and weigh-in-motion vehicle scale

### Automatic Bulk Weighing Systems Code

ABW-16.1	A. Application, S Specifications, N. Notes, UR. User Requirements and Appendix D – Definitions: automatic bulk weighing system
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### Liquid Measuring Devices Code

LMD-20.1	Table S.2.2. Categories of Device, MOS
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### Vehicle Tank Meters Code

VTM-18.1	S.3.1.1. Means for Clearing Discharge Hose, UR. 2.6
VTM-20.1	S.3.1. Diversion of Measured Liquid

### Electric Vehicle Fueling Systems Code

EVF-20.1	S.1.3.2. EVSE Value of the Smallest Unit
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### Grain Moisture Meters 5.56. (A)

GMA-19.1	Table T.2.1. Acceptance and Maintenance Tolerances Air Oven Method for All Grains and Oil Seed
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### BLOCK 3 ITEMS (B3)

Tolerances for Distance Testing in Taximeters & TNS

TXI-20.1	T. Tolerances
TNS-20.1	T. Tolerances

### Other Items

OTH-16.1	Electric Watthour Meters Code
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## ASSIGNED ITEMS

### BLOCK 2 ITEMS (B1)

Define True Value for use in Error Calculations

SCL-20.3	S.5.4. Relationship of Minimum Load Cell Verification Interval to the Scale Division
SCL-20.4	Table 3. Parameters of Accuracy Classes.
SCL-20.5	Table S.6.3.a. Marking Requirements, Note 3.
SCL-20.6	T.N.1.2. Accuracy Classes & T.N.1.3. Scale Division
SCL-20.7	Table 7. Maintenance Tolerances
SCL-20.8	Table 8. Recommended Minimum Load

### Scales Code

SCL-16.1	Sections Throughout the Code to Include Provisions for Commercial WIM Vehicle Scale Systems
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### BLOCK 1 ITEMS (B1)

Terminology for Testing Standards (verification standards, field standards, transfer standards, field reference standards, etc.) tolerances on tests when transfer standards are used, minimum quantity for field reference standard meter tests

GEN-19.1	G-T.5. Tolerances on Tests When Transfer Standards are Used., Appendix D – Definitions: standards, field., transfer standard. and standard, transfer.
SCL-18.1	N.2. Verification (Testing) Standards
ABW-18.1	N.2. Verification (Testing) Standards
AWS-18.1	N.1.3., N.3.1. Official UR.4. Testing Standards
CLM-18.1	N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards
CDL-18.1	N.3.2. Transfer Standard Test, T.3. On Tests Using Transfer Standards
HGM-18.1	N.4.1. Master Meter (Transfer) Standard Test, T.4. Tolerance Application on Test Using Transfer Standard Test Method
GMM-18.1	5.56(a): N.1.1. Air Oven Reference Method Transfer Standards, N.1.3. Meter to Like-Type Meter Method Transfer Standards and 5.56(b): N.1.1. Transfer Standards, T. Tolerances
LVS-18.1	N.2. Testing Standards
OTH-18.1	Appendix A: Fundamental Considerations, 3.2. Tolerances for Standards, 3.3. Accuracy of Standards
OTH-18.2	Appendix D – Definitions: fifth-wheel, official grain samples, transfer standard and Standard, Field
CLM-18.2	N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards
CDL-18.2	N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

HGM-18.2	N.4.1. Master Meter (Transfer) Standard Test and T.4. Tolerance Application on Test Using Transfer Standard Test Method
OTH-18.3	Appendix D – Definitions: field reference standard meter and transfer standard
LPG-15.1	N.3. Test Drafts
MFM-15.1	N.3. Test Drafts

### Vehicle Tank Meter Code

VTM-20.2	Table T.2. Tolerances for Vehicle Mounted Milk Meters
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## WITHDRAWN ITEMS

### General Code

GEN-20.2	G-T.1. Acceptance Tolerances
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### BLOCK 2 ITEMS (B2)

SCL-20.1	N.1.12. Reducing Rounding Error, T.1. General, T.N.2.1. General
SCL-20.2	Verification Scale Division

### Scales Code

SCL-20.11	S.1.2.2.2. Class I & II Scales Used in Direct Sales
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### Weigh-in-Motion Systems Tentative Code

WIM-19.1	Title of Tentative Code, S.1.7.1. Values to be Recorded., S.4.1. Designation of Accuracy., N.1. Test Procedures, T.2. Tolerance Values for Accuracy Class A Classes., UR.1.1. General, Table 1. Typical Class or Type of Device for Weighing Applications
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### Liquid Measuring Devices Code

LMD-20.3	UR.1.1. Discharge Hose
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### Other Items

OTH-18.4	Appendix D - Definitions: batch (batching)
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## Employment Opportunities

NCWM is proud to serve the weights and measures community, both private and public sectors, by listing employment opportunities. Any organization that maintains memberships with NCWM may request positions be posted online for public viewing at [www.ncwm.com/employment-opportunities](http://www.ncwm.com/employment-opportunities).

If you wish to post employment opportunity information, please send inquiries to [info@ncwm.com](mailto:info@ncwm.com).

# Safety Column

## Engineering Controls

Mike Sikula (NY), Safety Liaison



Engineering controls are methods used to help protect workers by eliminating or reducing hazards in the workplace. For weights and measures, these controls typically involve redesigning, changing, or substituting equipment but may also involve changing a procedure or implementing a new procedure. In contrast to what the name implies, engineering controls do not necessarily require an engineer to design it, they can be, and often are, designed by weights and measures inspectors. An inventive, safety-conscious inspector may come across a hazard or a potential hazard and design an effective engineering control to address it. This inspector may think the hazard was too unique or their idea isn't good enough and decides to not let his/her peers know about it. This can often be the wrong assumption. Sometimes, multiple inspectors face the same hazard and are looking for effective control. It is important for administrators and supervisors to create an environment where inspectors are excited about sharing these types of discoveries.

### Examples:

1) One county had a trailer-mounted prover routinely used for testing vehicle tank meters (VTMs) dispensing gasoline. Inspectors often complained that the gasoline odor was too strong, so a supervisor purchased a section of steel chimney tubing with an elbow at the top to divert the fumes. The tubing fits snugly in the neck and is easily removed. The gasoline odor was successfully diverted, and complaints stopped.

2) New York's propane provers are equipped with three trailer leveling jacks that also provide a means for providing an electrical ground. Often, it is

necessary to use blocks beneath the jacks to achieve a level condition. When all three jacks have blocks, especially wooden blocks, the electrical bond can be compromised. The division had a local shop make steel blocks to replace the wooden blocks so the ground could be maintained.

Assessing new and existing equipment for suitability and potential hazards is also an engineering control. Inspectors using equipment should be aware of safety features, adjustments, emergency stops, etc. Equipment should be evaluated for the area in which it will be used and consideration should be given to the use of reflectors, flags, flashing lights, horns and other features that will not only protect inspectors but other people who may be in the area. Of course, as with all engineering controls, regular maintenance is essential, and equipment must be regularly checked to ensure proper operation and effectiveness of safety features. A good example of this is the bonding clamps on trailer mounted prover systems. Without regular maintenance they will corrode, and electrical continuity can be lost.

The Occupational Safety and Health Administration (OSHA) considers engineering controls one of the top methods of controlling hazards, even placing it above personal protective equipment (PPE) in terms of increasing effectiveness. These controls provide an opportunity for inspectors to use their technical knowledge and education to resolve safety issues/problems. It is always a good idea for administrators and supervisors to ask about any safety innovations when conducting meetings. These innovations could be something an inspector made, a new PPE, or a new piece of safety equipment. It is also a good practice to showcase engineering controls implemented by an inspector or jurisdiction so the control can be copied or improved. A clever design or procedure implemented by one inspector, in one area, may save another inspector from serious injury in a different area, but only if other inspectors are made aware of it.



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