U.S. National Work Group Meeting
for the
Development of Commercial Hydrogen Measurement Standards

January 30, 2009

Joint Subcommittee

Teleconfernce/Webconference Meeting

AGENDA

Time: Friday, January 30, 2009/1:00 p.m. - 3:00 p.m. EST-USA & Canada (GMT -05:00)

Call-In Number: 916-233-4200
Call-In Code: 910213#

Web Conference: http://www.unlimitedconferencing.com/
Participant's Pin: 910213

This meeting is sponsored by the U.S. Department of Energy and U.S. Department of Commerce's National Institute of Standards and Technology.

This meeting is hosted by CSA America, Inc.

Purpose: The U.S. National Work Group (USNWG) is meeting to continue its work to promote the establishment of a comprehensive set of (1) design, accuracy, installation, use, and method of sale requirements, (2) test procedures, and (3) quality standards for equipment used in hydrogen measurements for vehicle and other refueling applications.

ATTACHMENTS:
Appendix A Draft 3.3 of NIST Handbook 44 Gas Measuring Devices Code
Appendix B Draft 2.3 of NIST Handbook 130 Uniform Laws and Regulations, Engine Fuel Quality
Appendix C Summary of the December 2008 USNWG Meeting

AGENDA TOPICS

1:00 P.M. (EST) Welcome Current/New Members and Roll Call

(1) Development of Device Standards and Test Procedures for Commercial Hydrogen Measurement

(a) User Requirements

The USNWG agreed to begin its January 2009 discussions in the User Requirements and Definitions Sections of the NIST Handbook 44 Hydrogen Gas Measuring Devices Code (See Appendix A). This latest version of the code is Draft 3.3, which is the result of work by the DSS at its December 2008 meeting.

(2) Application of Device Standards

(a) Paragraph A.3. Type Evaluation

During the December 2008 meeting, the DSS requested that the Technical Advisor to research paragraph A.3. Type Evaluation to determine whether or not this paragraph adequately addresses a device that may be submitted for type evaluation while the code has tentative status in NIST Handbook 44. Historically, new codes adopted by the National Conference on Weights and Measures are given tentative status. A tentative code has only a trial or experimental status and is not intended to be enforced. The requirements are designed for study prior to the development and adoption of a final code that has permanent status. Officials wanting to conduct an official examination of a device or system are advised to see paragraph G-A.3. Special and Unclassified Equipment. The DSS Technical Advisor will provide the USNWG and update on the research.

(3) Marking Information

During the development of the NIST Handbook 44 Hydrogen Gas Measuring Devices Code a requirement specifying the proper location of marking information required in paragraphs S.5. Markings(a) through (j) may have been inadvertently omitted. Similar retail applications in 3.30 Liquid Measuring Devices and 3.37 Mass Flow Meters Codes include a requirement that specifies the location of marking information.

The Liquid Measuring Devices Code specifies:

> ***S.4.4.2. Location of Marking Information; Retail Motor-Fuel Dispensers.*** *– The marking information required in the General Code, paragraph G-S.1. Identification shall appear as follows:*
>
> *(a) within 60 cm (24 in) to 150 cm (60 in) from the base of the dispenser;*

(b) either internally and/or externally provided the information is permanent and easily read; and

(c) on a portion of the device that cannot be readily removed or interchanged (i.e., not on a service access panel).

Note: *The use of a dispenser key or tool to access internal marking information is permitted for retail liquid-measuring devices.*
[Nonretroactive as of January 1, 2003]
(Added 2002) (Amended 2004)

The Mass Flow Meters Code specifies:

S.5.1. Location of Marking Information; Retail Motor-Fuel Dispensers. *– The marking information required in General Code, paragraph G-S.1. Identification shall appear as follows:*

(a) within 60 cm (24 in) to 150 cm (60 in) from the base of the dispenser;

(b) either internally and/or externally provided the information is permanent and easily read; and

(c) on a portion of the device that cannot be readily removed or interchanged (i.e., not on a service access panel).

Note: *The use of a dispenser key or tool to access internal marking information is permitted for retail liquid-measuring devices.*
[Nonretroactive as of January 1, 2003]
(Added 2006)

The design requirements are intended to ensure that required marking information is placed in an easily accessible location. The USNWG is asked to consider whether or not a similar requirement should be included in the Hydrogen Gas Measuring Devices Code.

(4) Update on the January 2009 National Conference on Weights and Measures
Proposals to introduce Draft 3.3 of the NIST Handbook 44 Hydrogen Gas Measuring Devices Code and Draft 2.3 of the NIST Handbook 130 Laws and Regulations and Engine Fuel Quality for Hydrogen (See Appendix B) were made available to the January 2009 National Conference on Weights Measures, Inc. (NCWM). This was the first time the draft codes appeared on a national agenda. Since 1905 the NCWM is the forum whereby national weights and measures standards have been introduced, discussed, and formally recognized by the States. The USNWG will receive an update on the status of the proposals.

(5) Opportunity for Reports on Related Activities for Hydrogen Devices and Fuel Quality

(a) Update on Work at the California Department of Food and Agriculture Division of Measurement Standards

(b) Update on Work at Other Agencies/Organizations

(6) Administrative Business

(a) Upcoming April and August 2009 Meeting Status

The USNWG Subcommittees identified the dates listed in the table below for upcoming USNWG meetings. It is anticipated that there may be a need to dedicate an entire meeting to one specific device or fuel quality related project that is identified by the USNWG. Future meeting locations will be based on logistics and technical tasks that the USNWG must accomplish. The USNWG will make every effort to post meeting information and to avoid scheduling conflicts with upcoming events and meetings in the weights and measures and hydrogen communities. The USNWG will be asked for updates on tentative sites of: (1) NIST-Gaithersburg, MD, (2) Palm Springs, CA , (3) Grand Forks, North Dakota, and (4) Santa Monica, CA that were selected for the April and August 2009 meetings.

Schedule for the USNWG 2009 Meetings	
Date(s)	**Location**
February 24, 2009/1:00 p.m. - 3:00 p.m. EST	Tele/Web Conference Meeting
April 28-30, 2009 /Day1&2 8:30 a.m. – 5:00 p.m. EDT DSS Meeting; Day 3 8:30 a.m. – 12 noon EDT FSS Meeting	In-Person Meeting TBD
August 18-20, 2009 /Day1&2 8:30 a.m. – 5:00 p.m. EDT DSS Meeting; Day 3 8:30 a.m. – 12 noon EDT FSS Meeting	In-Person Meeting TBD

(b) USNWG Guidelines

The USNWG requested that the Technical Advisor redistribute the August 2008 version of the guidelines and agenda submission form and ballot the USNWG in December 2008 for its approval of both documents. The USNWG will be updated on the voting results. Members not responding by the deadline agreed that their vote would count as acceptance of the guidelines and form.

Technical Note: The Technical Advisor moved the deadline for the vote to January 21, 2009 due to scheduling conflicts for multiple members of the USNWG had with the original January 9 deadline.

(c) Approve the Summary of the December 2008 USNWG Meeting (See Appendix C)

(7) Next Steps/Tasks

The DSTPS will discuss ideas for how the work should progress to develop hydrogen measurement standards and test procedures. Project work and target dates will also be identified.

3:00 P.M. (EST) Meeting Adjourns