U.S. National Work Group
Measuring Systems for Electric Vehicle Fueling and Submetering
August 29, 2012 Tele/Web Conference Meeting
DRAFT MEETING SUMMARY

Time: Wednesday, August 29, 2012/1:00 p.m. – 3:00 p.m. EDT-USA & Canada (GMT - 05:00)

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

Purpose: The U.S. National Work Group (USNWG) on Measuring Systems for Electric Vehicle Fueling is meeting to develop proposed requirements for commercial electricity-measuring devices (including those used in sub-metering electricity at residential and business locations and those used to measure and sell electricity commercially dispensed as vehicle fuel) and to ensure that the prescribed methodologies and standards facilitate measurements that are traceable to the International System of Units (SI). This work is not intended to address utility metering in the home or business where the electricity metered is consumed on the premise. A submeter is defined as an additional meter furnished, owned, installed, and maintained by the tenant or electricity customer who is served through a utility owned master meter.

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<th>Glossary of Acronyms</th>
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This table is meant to assist the reader in the identification of acronyms used in this summary and does not imply that these terms are used solely to identify these organizations or technical topics.

ATTACHMENTS:

Appendix A Federal Register Notice 2012-19285
(Federal Register Notice announcing the formation of the USNWG)

Appendix B section-IVb-12-h130-DRAFT EVSE 5-16-12
Mockup of a draft proposal for possible inclusion in NIST Handbook 130, “Uniform Laws and Regulations in the Areas of Legal Metrology and Engine Fuel Quality”

Appendix C 3.XX-12-hb44-EVSE DRAFT 5-15-12
Mockup of a draft requirements proposal for equipment used to measure and sell electricity in commercial applications for possible inclusion in NIST Handbook 44, “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices”

Appendix D 1.10-12-hb44-final
Excerpt from 2012 NIST Handbook 44 showing Section 1.10. General Code requirements

Appendix E GAP ANALYSIS - EVSE device code draft 3-22-12
Gap analysis comparing requirements currently found in various related standards

Appendix F NIST USNWG EV Fueling and submeter webinar 29AUG12
Scope and Orientation Slides presented during the meeting
DISCUSSION AND DECISIONS ON AGENDA TOPICS

1:00 P.M. (EDT)

(1) Welcome New Members and Introductions
Members of the newly formed USNWG and visitors were welcomed. The USNWG Chair, Ms. Juana Williams (NIST OWM), and the Technical Advisor, Mr. Marc Buttler (NIST OWM), introduced themselves.

(2) Scope and Orientation for Prospective Work Group Members
The Technical Advisor presented background information on the formation of the Work Group and its goals (see Appendix F). The background information included an explanation of the rising need within the weights and measures community for documentary standards for method of sale regulations and device specifications and tolerances. Uniform standards are needed that can be applied to devices installed in publicly accessible commercial EVSE applications and devices in submetering applications that fall under the jurisdiction of state and local weights and measures authorities. The presentation also covered the basic structure and procedures for the Work Group to follow in managing and documenting its technical work. All the information that was covered is available in Appendix F.

Some questions about the Work Group were answered:

Mr. Bill Fiske, Intertek C&E, asked if a private Standards Development Organization (SDO) had been considered. NIST replied that they would remain open to any suggestions or offers proposed by other technical committees. To date, no additional SDO services have been offered or solicited.

Mr. Fiske also asked if the Budget Control Act (BCA), which was passed in August 2011, might have any impact on the USNWG in the event of sequestration. At this time, NIST does not anticipate that the BCA will have a direct impact on NIST resources supporting the USNWG.

Mr. Richard Lowenthal, Coulomb Technologies, asked whether it was the intent of the USNWG to eliminate subscriber services for Electric Vehicle fueling. It was explained that weights and measures laws and regulations are not intended to impede contractual sales between parties and there is no expectation that subscription services would be prevented by any work of the USNWG. However, although contractual agreements are recognized, they do not circumvent all weights and measures requirements. As work progresses on developing the standards, the USNWG should keep in mind that there are examples in existing HB 44 codes that recognize exceptions to certain requirements in cases of contractual and other special sales scenarios. Similar considerations should be included in the USNWG proposals, as appropriate.

Mockups of draft proposals for possible inclusion in NIST Handbook 130, “Uniform Laws and Regulations in the Areas of Legal Metrology and Engine Fuel Quality” and for possible inclusion in NIST Handbook 44, “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices” were provided with related technical material (see Appendices B, C, D, and E) to attendees in advance of the meeting. These were not discussed during the meeting, but were provided to aid participants in assessing the nature and scope of the work that is proposed. These documents will provide a starting point and will be the primary focus of the next meeting.

Technical Advisor’s Note: The National Conference on Weights and Measures (NCWM) has an active developing item on the agenda of the Laws and Regulations (L&R) Committee (item number 232-5) to create a method of sale to support uniformity in retail sales of electricity as vehicle fuel. The 2012 L&R Committee Interim Report can be accessed online at: http://ncwm.net/sites/default/files/meetings/annual/2012/L%26R%20docs/2012_Pub16_LR.pdf.
(3) Next Meeting
The Technical Advisor agreed to conduct an online survey of members in order to identify the next available date that would be possible for the greatest number of members to attend an in-person meeting to be hosted at the NIST facility in Gaithersburg, MD.

Technical Advisor's Note: The results of the online survey have indicated that the optimum dates for the next meeting will be January 15 through 17, 2013. More details regarding this meeting will be sent to members as they become available.

(4) Establish Roster Designating Active (P) or Observer (O) Status for Each USNWG Member
Participants were asked to express their availability and commitment to join the USNWG as an ongoing member and to signify their membership status as either active P-members or observing O-members. In the time that remained available during the tele-conference, a preliminary roster was started recording thirteen active P-members and seven observing O-members. Others wishing to continue as members of the USNWG were requested to contact Mr. Buttler following the meeting with an e-mail or letter to confirm their ongoing status by September 21, 2012.

Technical Advisor's Note: A complete roster will be circulated to all members for confirmation before the next meeting of the USNWG.

3:00 P.M. (ET) Meeting Adjourned

Contact information:

Technical Advisor: Marc Buttler
(301) 975-4615
Fax (301) 975-8091
Marc.buttler@nist.gov

Chair: Juana Williams
(301) 975-3989
Fax (301) 975-8091
Juana.williams@nist.gov

National Institute of Standards and Technology
Physical Measurement Laboratory
Office of Weights and Measures
100 Bureau Dr., Mail Stop 2600
Gaithersburg, MD 20899-2600

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Physical Measurement Laboratory
Office of Weights and Measures
100 Bureau Dr., Mail Stop 2600
Gaithersburg, MD 20899-2600