

**NIST WMD Report on the
Development of Commercial Hydrogen Measurement Standards
to the NHFCCSCC
June 4, 2008**

U.S. National Work Group (USNWG) Upcoming June 2008 Meeting

Group: USNWG Subcommittee on Hydrogen Device Standards
and Test Procedures
Day/Time: June 17-18, 2008/8:30 a.m. – 5:00 p.m.
Place: Gas Technology Institute, Des Plaines, IL
Contact: juana.williams@nist.gov
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Status: The Subcommittee is nearing completion of a draft Hydrogen Gas Meters Code. The Code will be the basis for field and type evaluation test procedures. In anticipation of the work necessary to develop uniform and appropriate test procedures for hydrogen refueling equipment, the Subcommittee plans to ask for data and performance test procedures currently in use by equipment manufacturers, laboratories, and other agencies.

Group: USNWG Subcommittee on Hydrogen Fuel Specifications
Day/Time: June 19, 2008/8:30 a.m. – 12 noon
Place: Gas Technology Institute, Des Plaines, IL
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Development of International Standards

R 81 "Dynamic Measuring Devices and Systems for Cryogenic Liquids" (1998)
Status: NIST WMD is Secretariat for the International Organization of Legal Metrology (OIML) Recommendation 81 (R 81) and has responsibility for initiating work and ensuring that the standard progresses according to practices established by OIML. The Committee on International Legal Metrology approved a project to revise the 1998 version of R 81 to include: (1) new ISO and IEC Standards as recommended in OIML D 11 (2004), (2) new developments in hydrogen measurements, (3) revise density equations, and (4) any other remaining relevant standards and national documents. NIST WMD changed the April 2008 date for distribution of a first committee draft to U.S. stakeholders for comment to late June 2008. This change was made to allow for April 2008 OIML training and for WMD to move its offices.

U.S. National Outreach and Hydrogen Standards Development

Event: MARK YOUR CALENDARS
Upcoming Weights and Measures Administration Workshops on
"Commercial Hydrogen Measurement Standards"
Sponsor: NIST Weights and Measures Division and DOE
Day/Time: Tentative 2 1/2 Day Workshops
X July 22-24, 2008

X August 12-14, 2008

X September 23-25, 2008

Place: NIST, Gaithersburg, MD

Purpose: The purpose of the workshops is to familiarize weights and measures officials who will be responsible for field inspection and test of motor-fuel dispensers with the latest developments in the operation, performance, and safety of hydrogen refueling equipment and related transportation technologies.

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Event: In July 2008, NIST WMD plans to launch a link from its home page to a new web page on "Developing Commercial Hydrogen Measurement Standards" to include topics on: (1) the USNWG, (2) Development of International Standards, (3) NIST WMD Five Year Plan, (4) Quarterly Articles-Hydrogen News, (5) Helpful Hydrogen Links, (6) Current Hydrogen Events, and (7) Contacts for Commercial Hydrogen Measurement.

Event: An update on the status of the USNWG will be provided to the Specifications and Tolerances (S&T) Committee at the July 2008 National Conference on Weights and Measures Annual Meeting in Burlington, Vermont.

Purpose: Well developed draft weights and measures standards for equipment performance, design, installation, and use must be supported by a technical committee(s) and then introduced and accepted by the S&T Committee as a proposal on its January agenda. This begins the weights and measures standards development process.