



**National Hydrogen and Fuel Cell Codes and Standards Coordinating Committee
(NHFCCSCC)**

**Wednesday, August 15, 2018
TIME: 3:00 – 4:00 pm (Eastern Standard Time)**

Minutes

Attendees

**Connor Dolan
Jay Keller
Christina Daniels**

**Norm Newhouse
Morry Markowitz
Stella Papasavva**

**Bill Collins
Yuk Wong
Greg Chirdon**

Motion – Postpone the meeting to September 5th at 3:00 PM Eastern.

We will circulate the following time-sensitive update to the NHFCCSCC.

**Legal Metrology Standards Hydrogen Fuel
Quality and Measurement**

Juana Williams/Ralph Richter

(1) U.S. Weights and Measures Standards Development Process

NIST Office of Weights and Measures notes that NIST Handbook (HB) 44 Section 3.39 Hydrogen Gas-Measuring Devices – Tentative Code was published in 2010 with only a trial and experimental status.

NIST HB 44 (2018) is available at: <https://www.nist.gov/pml/weights-and-measures/publications>. NIST has awaited input on whether these legal metrology requirements were comprehensive enough and suitable as well as equipment performance data from jurisdictions using examination procedures based on NIST HB 44 General Code 1.10 and 3.39. The only changes made to the code since its addition to HB 44 as a tentative code were in 2016 to expand the device tolerances from 1.5 % and 2.0 % to 5.0 % and 7.0 %. California is the only state that has with some slight modification upgraded the code's status to permanent and is using the code in its enforcement activities.

Upcoming for 2019

NIST OWM plans to submit a proposal to upgrade the code for the 2019 standards development process cycle and requests comments by August 21, 2018. Comments are still welcome after that date through the NCWM process which closes on September 1, 2018.

(2) International Hydrogen Device Standards

OIML R 139 “Compressed gaseous fuel measuring systems for vehicles”¹

OIML Recommendation (R) 139 has passed its preliminary ballot and will be presented for final approval at the October 8-12, 2018-53rd CIML Meeting in Hamburg, Germany. A copy

of the most recent draft is available. Please send your requests for a copy to Ralph Richter at ralph.richter@nist.gov.