

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

**Wednesday, May 1, 2013
TIME: 3:00 – 4:30 pm (Eastern Daylight Time)**

Minutes

Attendees

**Aaron Harris
Andrea Zajac
Anthony Androsky
Bob Boyd
Carl Rivkin
Connor Dolan
Ernst Baumgartner
Jay Keller**

**Jennifer Hamilton
Jill Thompson
John Grimes
Juana Williams
Julie Weiss
Karen Hall
Karen Rau
Marc Butler**

**Nha Nguyen
Norm Newhouse
Spencer Quong
Tommy Rockwood
Will James
Mike Steele
Ron Nies**

1 Welcome and Housekeeping Items

Review of anti-trust guidelines

http://www.fchea.org/core/import/PDFs/ANTITRUST_GUIDELINES.pdf

Review of or corrections to draft meeting agenda – agenda approved.

Review of or corrections to April draft minutes – April minutes approved.

2 DOE/HQ Update

Nha Nguyen

Budget – CR extended to end of Fiscal Year. Budget is using the previous FY money, increased funding through CR. After the sequestration penalty, receiving \$6.62 million. Waiting guidance on additional funds.

Department of Energy Annual Merit Review – May 13 through 17 in Alexandria, VA.

- Codes and Standards tech team will have a side meeting on Monday, May 13 from 9:00 AM– 12:00 PM – All members on the call are invited to attend. An agenda can be provided upon request.
- National ER Template – Monday, May 13 afternoon. Jennifer is sending out invitations to stakeholders.

3 C&S Events and Fuel Cell Safety Information

http://www.fuelcellstandards.com/calendar_new.html

Kelvin Hecht

<http://www.hydrogenandfuelcellsafety.info/meetings.asp>

Karen Hall

Any additional/missing meetings or events can be sent to Karen Hall at khall@fchea.org.

4 Codes and Standards Organization Updates

IEC TC 105

Kelvin Hecht

Update to be provided at next meeting.

ISO TC 197

Jill Thompson

1. Future meeting

- WG 15, *Gaseous hydrogen - Cylinders and tubes for stationary storage*
 - i. July 1 and 2 at AFNOR's office in Paris

2. Pending new work item ballots

- U.S. TAG has submitted three new work item proposals for the Secretariat to ballot to ISO/TC 197 members:
 - i. New work item proposal 1 – Fuelling Stations – Hoses and Hose Assemblies (CSA HGV 4.2);
 - ii. New work item proposal 2 – Compressors (CSA HGV 4.8); and
 - iii. New work item proposal 3 – Fittings (CSA HGV 4.10).

NFPA

Martin Gresho

Jennifer Hamilton – A draft agenda is on its way. It has been reported that over half of the NFPA2 submissions received was on Chapter 10.

ICC

Robert Sale

Spencer Quong – 10 hydrogen proposals submitted to International Fire Code / Building Codes. 8 proposals were submitted between Bob Boyd and Bob Davidson, 1 from Spencer Quong, and 1 from an independent natural gas group.

All of Bob Boyd and Bob Davidson's proposals were accepted. Spencer Quong's proposal purposely received a negative vote to get comment. Will come back addressing comments. The independent proposal was rejected.

CSA

Julie Weis

CSA's update can be found online [here](#).

HDTA Status Update

Ken Loewenthal

The new 6.3Kg, 700 bar tank has arrived at CSA in Cleveland. We are waiting for the final reports on the qualification testing on the tank before further progress on the HDTA design can be done.

UL

Laurie Florence

Nothing new to report at this time.

SAE
SAE J2601

Mike Steele
Jesse Schneider

Mike Steele – The two documents from the interface group are pursuing their end game. There is a lot of activity. Safety Working Group – working to get 1766 moving. Hope to have traction at the June meetings.

Jay Keller – Is 2601 on track with late spring / early summer?

Mike Steele - The plan is to have something to discuss at the June meeting.

Jennifer Hamilton – 2990-1 – Time is being allotted on Thursday, June 13th in the morning. A monthly call was skipped in April, the next call for the team is the end of May on the 29th.

ASTM

Tommy Rockward

News release with respect to a new standard in support of J2619.

ILS due out, looking at CO2, Argon, Nitrogen, and water using jet propulsion. Contact with Air Liquide is looking at getting appropriate samples out for testing.

Upcoming meetings – ASTM 02 – meeting on June 22 – 27 in Montreal, Canada.

5 Discussion Topics

Regulatory Matrix Review and Comment

Karen Hall

Updates will be made on the Matrix for discussion at the June meeting. Any additional items or updates can be sent to Karen Hall at khall@fchea.org.

Permitting and Installation of Hydrogen Fueling Stations

Ca FCP Station Implementation Program

Jennifer Hamilton

Hydrogen Community Readiness – call this morning. The CA Energy Commission released the opportunity notice. It is available on the CEC website.

- Air Products – 2 stations
- Linde – 3 stations
- Air Liquide – 1 station.
- Independent station (Hydrogen Frontier, Inc.) – 1 station
- 2 projects were disqualified

Station Timeline – Nico Bouwkamp is the staff lead. Working to get stations on the ground. Stations previously funded by the CEC in 2010 are still not built. Working to solve this issue.

Working with Office of State Fire Marshall in CA to ensure awareness of NFPA 2 hydrogen proposals. Will be working with this office moving forward to get

hydrogen to increase awareness and gain approval. There is a plan to get hydrogen adoption into the state fire code.

Office of Planning and Research in the Governor's Office are working on a ZEV Readiness Guidebook and ARB working on ZEV toolkits- both results of the Governor's ZEV Executive Order and Action Plan. A few documents will be coming out following this topic.

National Emergency Responder template – Identified a need to bring together various emergency response proposals, ensure information is accurate and up to date. Goal to build a template to use on a national scale for first responder training. An in-person meeting will be held on Monday evening at the DOE AMR.

Ca DMS Metrology

Norman Ingram

Ron Nies – nothing new there as far as standards are concerned. Working to develop a plan for the later half of the year to go out to stations and evaluate them.

Ca DMS Fuel Quality

Ron Nies

Making progress in the laboratory and plan to attend the ASTM meeting to make a presentation on progress made. If unable to attend in person, working to develop a webex meeting.

SAE TIR J2601 Compliance

Jesse Schneider

No update at this time.

Hydrogen Fuel Quality and Measurement

NIST

Juana Williams &
Marc Buttler

International Hydrogen Device Standards

NIST OWM has no updates at this time. We anticipate having the results of the TC 8/SC 6/p1 vote on the second committee draft (2CD) of part 1 and part 2 of OIML Recommendation 139 (R 139) "Compressed gaseous fuel measuring systems for vehicles" by the NHFCCSCC's June 2013 meeting. U.S. comments and yes vote were submitted to the OIML Secretariat (the Netherlands) on the 2CD for R 139 by the April 5, 2013 deadline. The Secretariat extended the March 25, 2013 deadline. NIST OWM would like to thank everyone who provided comments used to establish the U.S. position on this draft of R 139. This International Organization of Legal Metrology (OIML) document corresponds to the legal metrology requirements in NIST Handbook 44 Section 3.39 Hydrogen Gas-Measuring Devices – Tentative Code.

7 Open Discussion & Other Issues

Next meeting to be held on Thursday, June 20 at 3:00 – 4:30 PM Eastern.