

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

**Wednesday, March 5, 2014
TIME: 3:00 – 4:30 pm (Eastern Daylight Time)**

Minutes

Attendees

**Bob Boyd
Carl Rivkin
Connor Dolan
Ernst Baumgartner
John Grimes
Juana Williams**

**Julie Weis
Karen Hall
Kelvin Hecht
Ken Lowenthal
Kym Carey
Larry Moulthrop**

**Nick Barilo
Ron Nies
Steve Tucky
Susan Bershad
Will James**

1 Welcome and Housekeeping Items

Reviewed anti-trust guidelines

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

Approved meeting agenda.

Reviewed and approved February draft minutes.

2 DOE/HQ Update

Will James

Kym Carey welcomed to the Codes and Standards team at DOE.

Meetings and workshops coming up:

- Nick Barilo staff our current resource pool and training online – CA on April 1st.
- June timeframe to host a workshop on fuel quality, detection and contaminants. Looking for industry participation. Likely second week of June just before the AMR.

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

4 Codes and Standards Organization Updates

IEC TC 105

Kelvin Hecht

Active Working Groups

- WG#4 (IEC 62282-3-201 Ed.1 – *Stationary Fuel Cells – Performance for small fuel cells*)

- Amendment initiated in November 2013 to address several editorial and technical issues
- WG#4 (IEC 62282-3-200 Ed.2 –*Stationary Fuel Cells – Performance*)
 - 2nd edition CDV scheduled for March 2014.
- WG#6 (IEC 62282-4-101 – *Fuel Cell Systems for Forklift Applications – Safety*)
 - CDV approved in November 2013. FDIS will be posted in March 2014.
- WG#7 (IEC 62282-5-1 – *Portable Fuel Cells*)
 - Posted for proposed revision for 2nd edition. Comments due by April 2014.
- WG#8 (IEC 62282-6-101 – *Micro Fuel Cells – Safety*)
 - 2nd edition in progress. IEC 62282-6-101 will be General Requirements. Specific technologies will be separate documents.
- WG#10 (IEC 62282-6-400 - *Micro Fuel Cells – Power & Data Interchangeability*)
 - CDV was rejected in December 2013. Voting until April 11 to
 - Proceed with a 2nd CDV
 - Change to a Technical Specification
 - Put on hold
- WG#11 (IEC TS 62282-7-2 *Single Cell – Test Methods For Solid Oxide Fuel Cells*)
 - To be posted as a DTS by September 2014.
- WG#12 (IEC 62282-3-400 – *Small Stationary Fuel Cells with Combined Heat and Power Output*)
 - CD in progress.

ISO TC 197

Jill Thompson

Karen Hall – A number of very active working groups. Some are being led by CSA America, where documents that we have developed here in the US are being put forward as the initial draft for international consideration. Going through the process to getting copyright approval to move forward these documents.

This is the limiting factor to setting up the next working group meetings. Expect to see some announcements very shortly.

Working Group 24 met in Tokyo just this last week.

Working group meetings have been set up for testing, separation distances, and compilation of comments review subgroup.

NFPA 2

Susan Bershad

The ballot has closed for NFPA 2. First draft report for NFPA 2 to be posted no later than this Friday. It will be open for public comment. Comments submitted via paper are due April 11th, online comments to close on May 16th.

Based on comments from the Chair, all comments should be received by May 16th to prepare for the meeting in July.

This will be a joint NFPA 55 meeting in July. Five days total will be scheduled, tentatively beginning on the week of July 14th.

NFPA 853

Karen Hall

An update is likely next month.

ICC

**Robert Sale /
Bob Davidson**

ICC activity that we would like to get more familiar with is the International Green Construction Codes. FCHEA is investigating further.

CSA

Julie Weis

Presentation available at:

<http://www.fchea.org/core/import/NHFCCSCC/CSA-Update-2014.03.05.pdf>.

HDTA Status Update

Ken Loewenthal

HDTA letter sent to the SAE J2601 group at:

[http://www.fchea.org/core/import/NHFCCSCC/CSA%20HDTA-lite%20Letter%20to%20SAE%20J2601%20\(2014-03\).pdf](http://www.fchea.org/core/import/NHFCCSCC/CSA%20HDTA-lite%20Letter%20to%20SAE%20J2601%20(2014-03).pdf)

Karen Hall - How broad of a net do we want to send with this request? Would a version of this be available to be distributed?

Ken Loewenthal – Feel free to send this out. Received several inquiries of interest already.

UL

Laurie Florence

Nothing new to report.

SAE

**Mike Steele
Jesse Schneider**

Update to be provided next month.

ASTM

Tommy Rockward

Nothing new to report.

5 Discussion Topics

Facilitating Deployment

Carl Rivkin

At the last H2USA meeting, discussed an national permitting guide, the purpose of which will be to get stations online. One version already available which was developed in 2004. This needs to be updated. Targeting this summer for use.

Stationary fuel cell deployment through the Telecommunications Industry Association. Also developing a guidance document to get stationary fuel cells operating. Through DOE support, NREL is conducting workshops focused on project developers and code officials to get projects online faster. Close to 20 workshops have been held previously, and at least four more will be held in California this year. Targeting Los Angeles first on May 20th and 22nd.

Goal is to use this permitting guide in these workshops.

An online webinar will be held on March 27th by NREL to discuss component safety work ongoing. Also supports fueling station development.

Also looking at what kinds of modifications would be needed for a repair facility to work on a fuel cell electric vehicles.

Regulatory Matrix Review and Comment

Karen Hall

Comments can be submitted to Karen Hall at khall@fchea.org.

Latest version of the Regulatory Matrix is available at

<http://www.fchea.org/core/import/NHFCCSCC/FCHEA%20Regulatory%20Matrix%20Feb%2019%202014%20PDF.pdf>.

Permitting and Installation of Hydrogen Fueling Stations

CAFCP Station Implementation

Jennifer Hamilton

- The CEC solicitation closed on 14, Feb. and so we're awaiting the Notice of Proposed Awards (perhaps EOM April).
- The new Zero Emission Vehicle Infrastructure Project Manager in the Governor's Office has started his position as of the 3rd of this month Here is his contact information, if people are interested: tyson.eckerle@gov.ca.gov Office: 916-322-0563 As Tyson is formerly of Energy Independence Now (EIN) the contact there is: Remy Garderet: remy.garderet@einow.org 916-844-2346
- The Ca Air Resources Board and Division of Measurement Standards are developing their dispenser validation (testing) schedule and process for current and up-coming stations. If anyone has questions, please contact Bill Elrick here in our office (belrick@cafcf.org)

Ca DMS Metrology

Norman Ingram

Ron Nies - Norm is currently at AC Transit testing the dispenser. A rule change is going through the approval process, hoping it will be approved in April. Shortly after should be selling hydrogen by the kilogram in California. Need dispensers finished and rules passed, but likely soon.

Ca DMS Fuel Quality

Ron Nies

Ron Nies – Lab is still dark, going to be for a few months. Will continue until funding is found.

SAE TIR J2601 Compliance

Jesse Schneider

Nothing to report.

Legal Metrology Standards Hydrogen Fuel Quality and Measurement

Juana Williams

Nothing to report.

7 Open Discussion & Other Issues

Next meeting to be held on Wednesday, April 2, 2014 at 3:00 PM Eastern.