

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

Wednesday, May 14, 2014

TIME: 3:00 – 4:30 pm (Eastern Daylight Time)

Minutes

Attendees

**Anthony Androsky
Connor Dolan
Jackie Birdsall
Jesse Schneider
Joe Wong**

**Juana Williams
Julie Weis
Karen Hall
Kelvin Hecht
Mike Steele**

**Norman Newhouse
Sara Marxen
Spencer Quong
Steve Tucky
Will James**

1 Welcome and Housekeeping Items

Review of anti-trust guidelines -

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

Approved the meeting agenda.

Approved the April draft minutes.

2 DOE/HQ Update

Will James

The DOE AMR is about a month out. Committee members are encouraged to register. It will be held June 16 – 20 in Washington, D.C. An international infrastructure panel will be held on Thursday, this will include H2USA and the other international partnerships.

We just finished the second international infrastructure workshop in Torrance, California. Toyota hosted. 75 technical experts from industry and labs around the world attended. The group tackled critical issues of infrastructure, including metering, fuel quality, refueling, and infrastructure hardware. A presentation/webinar/report will be developed from that workshop.

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

Action Item: Request for technical resource updates for the Hydrogen and Fuel Cell Safety website. Any committee members who have materials they would like hosted on the website can send them to Karen Hall (khall@fchea.org) or Connor Dolan (cdolan@fchea.org).

4 Codes and Standards Organization Updates

IEC TC 105

Kelvin Hecht

No report at this time.

ISO TC 197

Jill Thompson

Karen Hall - Several events are upcoming, as displayed on the Fuel Cell Standards calendar.

Jesse Schneider - WG 24 is working with CEN and the European Standardization to reference the standard as a basis for future hydrogen station rollout in Europe.

Open call for country experts, please contact Jill Thompson for membership information to TC 197.

NFPA 2

Susan Bershad

Karen Hall – This is the final week for submitting comments to the 2015 edition of NFPA 2. These comments have to be made through the online NFPA system. FCHEA submitted eight comments. The next step is to hold the Technical Committee Joint Meeting with NFPA 55 in July at NREL in Colorado. Objectives to walk through proposed changes that impact both committees, the first day may be non-hydrogen, the final day will be purely hydrogen related. Specific schedule to be determined.

NFPA 853

Karen Hall

Waiting for the second report to come out. As no comments were received, may be posted in July.

ICC

**Robert Sale /
Bob Davidson**

No report at this time.

CSA

Julie Weis

The CSA presentation is available online at www.fchea.org/core/import/NHFCCSCC/CSA-May-2014.pdf.

HDTA Status Update

Ken Loewenthal

No report at this time.

UL

Laurie Florence

No report at this time.

SAE

**Mike Steele
Tim McGuire**

The SAE presentation is available online at www.fchea.org/core/import/NHFCCSCC/SAE-May-2014.pdf.

ASTM

Tommy Rockward

Action Item: FCHEA to contact Raul Dominguez as the new ASTM Chair.

5 Discussion Topics

Facilitating Deployment

Carl Rivkin

No report at this time.

Regulatory Matrix Review and Comment

Karen Hall

Reviewed and supplied comments on the latest version of the Regulatory Affairs Matrix.

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

Permitting and Installation of Hydrogen Fueling Stations

CAFCP Station Implementation

Jennifer Hamilton

Connor Dolan - On May 1, the California Energy Commission (CEC) announced it will invest \$46.6 million to accelerate the development of public hydrogen refueling stations in the state to prepare for the introduction of consumer fuel cell electric vehicles (FCEV) as they come to market.

In total, 28 different hydrogen refueling stations were awarded across the state, including six 100 percent renewable hydrogen refueling stations. These add to the 9 existing stations and 17 stations in-construction already in California, bringing the grand total to 54 operating stations in the 2015-2016 time frame.

Recipients of the awards include Air Liquide, ITM Power, FirstElement Fuel and Linde with financial backing from Toyota, HyGen Industries, Institute of Gas Technology, HTEC, and Ontario CNG Station.

For a link to the full CEC press release, click [here](#).

Ca DMS Metrology

Norman Ingram

Ca DMS Fuel Quality

Ron Nies

SAE J2601 Compliance

Jesse Schneider

Discussion between DOE/NOW/NEDO/Industry last week in California at Toyota Torrance related to hydrogen fueling infrastructure development and needs for commercialization. One of the main outcomes is that station acceptance and hydrogen fueling certification according to SAE J2601 needs to be put as a priority. It was

recognized by the State of California (Tyson Eckerle) that they need a fueling validation device to validate the 100 stations within the next year and needs for this to be defined by an industry panel. Both the ISO WG 24 and the H2FIRST organizations are evaluating support for this panel.

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

Juana Williams

Preparing to go through a safety review here on the test apparatus. The laboratory test phase has been completed and has received a report from the fluid metrology group on April 29. Going through an internal review now and will have a report after the second phase / last phase. Preparing to get ready to take the unit to the field.

7 Open Discussion & Other Issues

Next meeting to be held on Wednesday, June 4th, 2014 at 3:00 PM Eastern.