

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

Wednesday, February 1st, 2012
3:00 – 4:30 pm (Eastern Daylight Time)

1 Welcome and agenda additions

Review of or corrections to January draft minutes

Discussion of Robert Wichert's section continued.

The minutes were approved as amended.

3 DOE/HQ Update

Antonio Ruiz

The budget roll out for FY 2013 has been delayed. IT is now expected for the 13th of February. This is a delay of one week.

Thursday, the European Commission sent out a request for proposals. There are opportunities to collaborate with our European partners as well. FCH JU Call for Proposals 2012 Part 1
<http://ec.europa.eu/research/participants/portal/page/cooperation?callIdentifier=FCH-JU-2012-1>

The Fuel Cell Expo in Tokyo, Japan will take place February 29th through March 2nd. FCHEA has partnered with the FC EXPO with Fuel Cells 2000 to put together a US Pavilion. There is still exhibit space available. To exhibit at the EXPO, please contact Connor Dolan at cdolan@fchea.org for more information.
<http://www.fcexpo.jp/en/>

4 C&S Events and Fuel Cell Safety Information

<http://www.hydrogenandfuelcellsafety.info>

Karen Hall

FAA meetings have been bumped a week

March 28- 29 Washington D.C. – Hydrogen Safety Panel

ASME Meeting – 14th and 15th of March – B31.12

<http://www.h2incidents.org/>

No Update this month

No update this month.

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

Kelvin Hecht

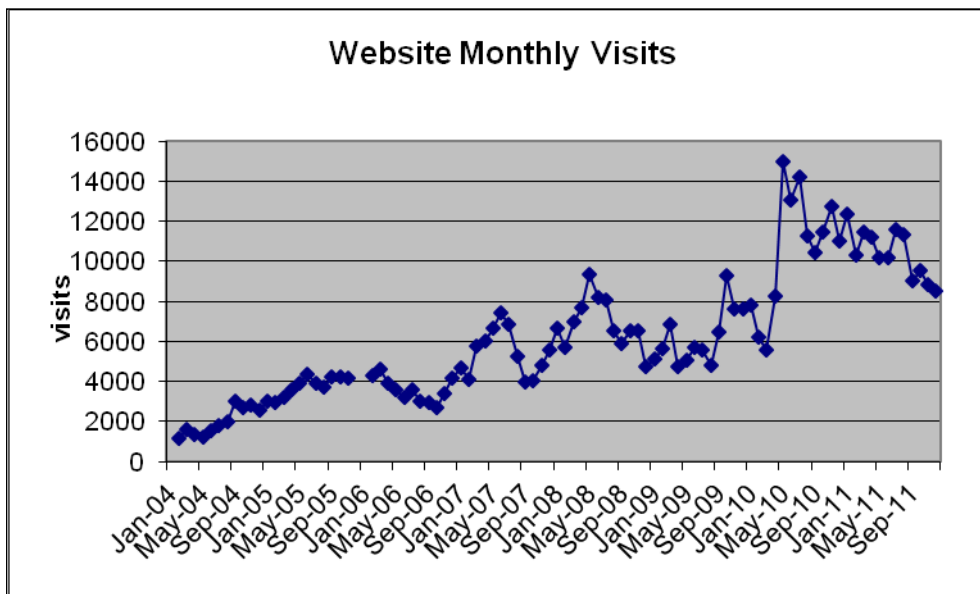
Conference capabilities will be available for the IEC TC105 WG#8 on Micro Fuel Cells – Safety at the NREL Facility in Golden, Colorado.

Comments close on TC 105 US TAG on IEC /CDV 62282-6-100 Amendment 1 to Micro Fuel Cells – Safety on February 17, 2012.

IEC TC 105

Kelvin Hecht

- **WG#2 (IEC 62282-2 Ed.2 – Fuel Cell Modules)**
 - **FDIS posted. USTAG will vote to approve with editorial comments.**
- **WG#3 (IEC 62282-3-100 – Stationary Fuel Cells - Safety)**
 - **Approved. Addressing editorial comments prior to publication**
- **WG#4 (IEC 62282-3-201 Ed.1 – Stationary Fuel Cells – Performance for small fuel cells)**
 - **CDV posted for vote and comments. Comments to USTAG by May 31, 2012.**
- **WG#5 (IEC 62282-3-300 Ed.1 – Stationary Fuel Cells – Installation)**
 - **FDIS posted. USTAG will vote to approve with editorial comments.**
- **WG#8 (IEC 62282-6-100 am 1 – Micro Fuel Cells – Safety)**
 - **CD for amendment 1 has been posted. Comments to USTAG by February 17, 2012.**
 - **Teleconference to be held the week of February 6th to address issues.**
- **WG#9 (IEC 62282-6-200 Ed.2) Micro Fuel Cells – Performance**
 - **CDV was approved. The FDIS will be issued by July 31, 2012.**
- **WG#10 (IEC 62282-6-300 Ed. 2 – Micro Fuel Cells – Interchangeability)**
 - **CDV posted. Comments to USTAG by March 23, 2012.**
- **WG#11 (IEC 62282-7-2 – Single Cell Performance Test Methods for Solid Oxide Fuel Cells)**
 - **USTAG submitted comments to CD.**



5 Discussion Topics

Regulatory Matrix Review and Comment

Karen Hall

This matrix is facilitated and kept by FCHEA. Please contact Karen Hall at khall@fchea.org or Connor Dolan at cdolan@fchea.org for any further updates.

Certification of Hydrogen Dispensing Stations

Robert Wichert

Robert stated that the issue is in the hands of the manufacturers. As none were present on the call, there were no updates.

Hydrogen Fuel Quality and Measurement

ASTM D.03-14

Jackie Birdsall

Data is being collected at present.

ASTM D7649, a GCMS method, still needs laboratory participation. Members on the call indicated that they would pass information to their laboratory contacts to build participation.

NIST

Juana Williams & Marc Buttler

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

Fuel Quality Regulation

The 97th National Conference on Weights and Measures (NCWM) Interim Meeting was held January 22-25, 2012 in New Orleans, LA. The NCWM Laws and Regulations (L&R) Committee considered the U.S. National Work Group (USNWG) for the Development of Commercial Hydrogen Measurement Standards' latest proposals for adding a new hydrogen fuel specification and three new hydrogen-related definitions to NIST Handbook 130. The NCWM also received a letter from the CaFCP in support of these proposals.

The L&R Committee agreed with the USNWG's recommendation for moving these latest proposals forward for a vote and adoption by the NCWM. The NCWM will meet July 15-19, 2012 in Portland, ME to vote on the USNWG's proposals that appear in L&R Committee Agenda Items:

237-9 "Requirements for Hydrogen" which reads:

Section 2. Standard Fuel Specifications

2.XX. Hydrogen Fuel. – Shall meet the most recent version of SAE J2719, "Hydrogen Fuel Quality for Fuel Cell Vehicles."

237-10 "Definitions for Hydrogen Fuel for Internal Combustion Engines and Fuel Cell Vehicles," which reads:

Section 1. Definitions

1.XX. Fuel Cell. – An electrochemical energy conversion device in which fuel and an oxidant react to generate electricity without any consumption, physically or chemically, of its electrodes or electrolyte.

(Added 201X)

1.XX. Hydrogen Fuel. – A fuel composed of molecular hydrogen intended for consumption in a surface vehicle or electricity production device with an internal combustion engine or fuel cell.

(Added 201X)

There was a recommendation that the word “surface” be removed from the definition. This was the first comment received. This would broaden the application.

1.XX. Internal Combustion Engine. – A device used to generate power by converting chemical energy bound in the fuel via spark-ignition or compression ignition combustion into mechanical work to power a vehicle or other device.

(Added 201X).

The L&R Committee also agreed to add a separate new proposal to the Committee’s agenda that will move forward for a vote of the July 2012 NCWM. This third proposal makes further modifications to the current NIST HB 130 Method of Sale (MOS) Regulation definition for “*hydrogen fuel*” to ensure the definitions for that term are aligned in the MOS and fuel specification sections of HB 130.

California DMS

John Mough/Norm Ingram

In a preliminary report received on proceedings from the NTEP meeting where this was discussed, the report stated the agenda was accepted with the exception of two items unrelated to the checklist. It is believed the checklist was adopted without changes.

6 Codes and Standards Organization Updates

ISO TC 197 – no updates

NFPA – no updates

ICC – Bruce Johnson

Working with the HIPOC group. HIPOC did submit comments on building code, first to be heard April 29th through May 6th in Dallas, Texas. More importantly, the ICC staff will support HIPOC. Efforts to harmonize the ICC fire code with NFPA will be heard in 2013.

CSA

General updates will be sent by the end of the week to be included in the minutes.

Others

7 Open Discussion & Other Issues

ANSI Website Discussion – Robert Wichert

Contacts on the call will work to take the website down as it is defunct.

Minutes Approval and Distribution of Draft Minutes

Concern was raised on the quality of the minutes and the fact that draft minutes are posted online.

As each item on the agenda has a lead, it was suggested that the minutes be sent to those persons leading discussion on any topic. Then the minutes would be sent out as they currently are.

One suggestion was to send the draft minutes to the entire NHFCCSCC prior to posting.

It was stated that it is difficult to make corrections during the meeting via webinar and that it breaks the flow of the meeting.

Another suggestion was to send the draft minutes to all authors prior to posting, rather than the entire NHFCCSCC.

Author reports could also be sent prior to, or just after, the NHFCCSCC meeting for inclusion in the minutes.

It was noted that attribution of quotes or notes in the minutes is often not currently included in the minutes.

Chad Blake proposed that only final minutes be posted online, and only after final review of the Committee.

Karen Hall noted that the draft minutes were published before so that members can access important information quickly and readily.

Chad noted that this could be addressed by having the minutes available via email.

An alerts section was also proposed so that current and vital information could be found readily.

The consensus of the group is that we will now email draft minutes to the Committee and only post final approved minutes. Also, that members providing reports are encouraged to provide written summaries either prior to or immediately following the meeting for inclusion in the minutes.

FCHEA Announcement

As of today, Jay Keller, formerly of Sandia, is now working with FCHEA on Codes and Standards issues.

The next meeting of the NHFCCSCC will be the Wednesday, March 7th, 2012.

Please send updates to Chad Blake at Chad.Blake@nrel.gov, Karen Hall at khall@fchea.org, and/or Connor Dolan at cdolan@fchea.org.