

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

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

Minutes

Attendees

**Anthony Androsky
Bob Boyd
Carl Rivkin
Connor Dolan
Dave Farese
Ernst Baumgartner
Jennifer Hamilton
Jill Thompson
John Grimes**

**John Mough
Juana Williams
Julie Weis
Karen Hall
Kathleen O'Malley
Kelvin Hecht
Larry Moulthrop
Marty Gresho
Mike Steele**

**Nha Nguyen
Nick Barilo
Norm Newhouse
Norman Ingram
Robert Wichert
Ron Nies
Spencer Quong
Steve Tucky
Susan Bershad**

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 - approved

Review of or corrections to March draft minutes - approved

2 DOE/HQ Update

Nha Nguyen

Budget – CR has been signed off last week. Direct guidance is not available at this time. We know that we will be getting extra funding, back toward the FY 2012 levels, we are unsure of the exact amounts. We will continue to fund projects at national labs, etc.

AMR – Annual Merit Review to be held on May 13 – 17 in Washington, D.C.

J2579 has been published.

ICHS – International Conference on Hydrogen Safety is scheduled for September 9 – 11 in Brussels, Belgium. The paper deadline has been extended to April 22, 2013 and a paper will be considered even if no abstract was submitted.

GTR Status – Reported previously, up for vote in Geneva. During the June 2013 session. Once GTR is approved, will start Phase 2 of GTR. Consists of items unable to resolve in Phase 1, material compatibility and minimum stress rupture requirements of fill containers that use fiber other than carbon fiber (i.e. glass, or other materials).

Round Robin Tank Testing – Activity under the IPHE – second tank test to be conducted by US. China to set up test to run additional data in the next month or so. Once

complete that will satisfy the hydraulic requirements set by round robin. The first phase of the pneumatic tank testing has begun with work performed at JRC.

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#1 (IEC 62282-1 Ed.3 – *Definitions*)
 - Preparation of draft for TC105 voting is in progress. Publication expected 1st half of 2013.
- WG#4 (IEC 62282-3-201 Ed.1 – *Stationary Fuel Cells – Performance for small fuel cells*)
 - FDIS approved. Publication expected by April 2013.
- WG#4 (IEC 62282-3-200 Ed.2 – *Stationary Fuel Cells – Performance*)
 - 2nd edition in progress
- WG#6 (IEC 62282-4-100 – *Fuel Cell Systems for Forklift Applications – Safety*)
 - CD in progress.
- WG#8 (IEC 62282-6-101 – *Micro Fuel Cells – Safety*)
 - 2nd edition in progress
 - Next meeting scheduled for April 22-24 at UL in Northbrook, IL
- WG#9 (IEC 62282-6-200 Ed.2 – *Micro Fuel Cells – Performance*)
 - FDIS approved. Publication expected by March 2013.
- WG#10 (IEC 62282-6-400 - *Micro Fuel Cells – Power & Data Interchangeability*)
 - CD in progress.
 - Comments to CD posted January 18th.
 - Next meeting scheduled for April 25-26 at UL in Northbrook, IL
- WG#11 (IEC TS 62282-7-2 *Single Cell – Test Methods For Solid Oxide Fuel Cells*)
 - Draft Technical Specification posted March 22.
 - Vote and comments for DTS to USTAG by May 31st.
- WG#12 (IEC 62282-3-400 – *Small Stationary Fuel Cells with Combined Heat and Power Output*)
 - CD in progress.

- Next meeting scheduled for July 1-3 at California Fuel Cell Partnership, Sacramento, CA

ISO TC 197

Jill Thompson

1. Recent ballot

- Request from European Cylinder Makers Association (ECMA) for Category D liaison with ISO/TC 197/WG 15
TAG vote due on March 29, proposed vote is "Approve"
Position due to ANSI by April 5

2. Future meeting

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

NFPA

Martin Gresho

The NFPA 2 public input first draft meeting is to be held the week of June 4 – 7 in Quincy, MA. This meeting is open to guests. If you would like to attend, please contact Susan Bershad by email at sbershad@comcast.net.

The technical committee will address all public input received. The 700 pages of public input have been compiled and will all be voted on. Afterwards, anyone who has made a comment has a second chance to provide comment on committee decisions, deadline is November 15, 2013. All decisions will be made public. The second draft meeting will be held one year from now.

NFPA 55, compressed gas standards, includes some hydrogen components. Public input is due July 8, 2013.

ICC

Robert Sale

No report at this time.

CSA

Julie Weis

CSA update is available online at <http://www.fchea.org/core/import/NHFCCSCC/CSA-April-2013.pdf>.

HDTA Status Update

Ken Loewenthal

No update at this time.

UL

Laurie Florence

No update at this time.

SAE

Mike Steele
Jesse Schneider

Mike Steele – J2579 has been published and is available.

Jennifer Hamilton - J2990-1 has monthly meetings on-going. Because of other activity will not increase frequency of meetings until other activity decreases. Will have meetings with parent document representatives to discuss identification and labeling to harmonize language.

Mike Steele - Interface working group – J2601 and J 2799 are moving toward appropriate endings. Next meeting to be held in June.

Bob Boyd - J2601-3 – Into final formatting. Approved by the standards committee as a TIR. Expect to be in the next 30 days to be available.

Bob Boyd - J2601-2 – bus fueling – out for review as a draft within the working group.

ASTM

Tommy Rockward

No report at this time.

5 Discussion Topics

Regulatory Matrix Review and Comment

Karen Hall

<http://www.fcchea.org/core/import/NHFCCSCC/FCHEA-Regulatory-Matrix-Mar-25-2013.pdf>

Permitting and Installation of Hydrogen Fueling Stations

Ca FCP Station Implementation Team

Jennifer Hamilton

Energy Commission funding for stations anticipated announcement later this month.

Couple of new staff taking on projects on community readiness. Includes education of first responders and permitting officials.

Station timeline project, identifying places and timeline for implementation. Niko and Joe working on interviewing key station owners and putting together data.

CAFCP Bus Roadmap is available online at <http://cafcp.org/carsandbuses/busroadmap>.

Ca DMS Metrology

Norman Ingram

No report at this time.

Ca DMS Fuel Quality

Ron Nies

Progressing. Nothing new to report.

SAE TIR J2601 Compliance

Jesse Schneider

No report at this time.

Hydrogen Fuel Quality and Measurement

NIST

Juana Williams &
Marc Buttler

Nothing new to report at this time.

7 Open Discussion & Other Issues

Next conference call to be held on May 1 at 3:00 PM Eastern.