

NATIONAL HYDROGEN AND FUEL CELLS CODES AND STANDARDS COORDINATING COMMITTEE

Wednesday, July 6, 2011

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

CALL-IN NUMBER: (641) 594-7000 Passcode: 824011#

WEBINAR: <https://www1.gotomeeting.com/register/931652281>

1 Roll Call

Present on the call:

Chad Blake	Will James	Dan Reiswig
Marc Buttler	Chris Manchester	Carl Rivkin
Jackie Button	David McColskey	Mike Steele
Bill Collins	Steve McDermitt	Rhoads Stephenson
RJ Frame	John Moncrief	Jill Thompson
Karen Hall	Gary Nakarado	Steve Weiner
Aaron Harris	Jim Ohi	Robert Wichert
Doug Horne	Spencer Quong	Juana Williams

2 Review of Anti-Trust Guidelines

http://www.fccea.org/members/ANTITRUST_GUIDELINES_REV.pdf

3 Review of/Corrections to June Draft Minutes (attached and can be found at

www.hydrogenandfuelcellsafety.info/)

Approved as written

4 DOE/HQ Update

Antonio Ruiz

Reminder – ICHS

Preliminary Program is available. www.Ichs2011.com

5 Calendar of C&S Events and Fuel Cell Safety Information

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

Kelvin Hecht

CORRECTION

August 2 - 4

NFPA 52

Vehicle Fuel Systems

(for Report on Proposals)

NFPA Headquarters

Quincy, Massachusetts

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

Karen Hall

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

Steve Weiner/Linda Fassbender

WEB SITE IS OFF LINE

FCHEA Priority Matrix

Robert Wichert

No new items or changes since June

5 Discussion Topics

Discussion Leader

International Coordination

Robert Wichert

Continued

During the last meeting there was limited support for one or two meetings a year that would allow participation from Europe and Asia. A Task Group was formed to put together a list of potential attendees and potential topics. Robert Wichert, Jim Ohi, Kelvin Hecht, Jackie Button, Chad Blake, Karen Hall, Tony Androsky, Will James volunteered for the Task Group and agreed to meet one hour prior to this meeting.

July 6, 2011, Conference Call:

Karen Hall, Chad Blake, Will James, Jim Ohi, Robert Wichert,

There was a discussion of items of interest that could be of value to our Coordinating Committee.

- There is an interest in Europe in starting a similar coordinating committee with JTI funding, possibly to begin in the next year or two.
- Karen Hall will provide contact information for the European industry group so the NHFCCSCC can follow up to determine if there is interest in having European participation in the NHFCCSCC or to discuss lessons learned in the creation of this committee.
- There is also potential to increase dialog with China, Japan, and others to mitigate confusion and misunderstanding (such as the ban on Type IV tanks in China).
- NEW AGENDA ITEM: "International Issues"
- When topics discussed in our meetings would benefit from international participation or coordination, we will attempt to capture these for consideration for future meetings.
- Next Call: Prior to the August Meeting

Hydrogen Fuel Quality

Jim Ohi

Jim Ohi provided an update. The ISO DIS was voted on and it passed with significant comments. The comments will be addressed at an upcoming meeting.

ISO TC 197 WG #14

Karen Hall

A meeting was held June 27-28 in Grenoble, France. There were significant comments received on the CD. It was noted by experts on both WG 14 and WG 12 that some of the comments are also being made to the WG 12 draft which is currently out for review and comment. A joint meeting was suggested. At the request of WG 14, Karen Hall has drafted a letter suggesting a common meeting to address the overlapping comments. Karen will also be providing a report to the US TAG in the next few days.

ASTM --

Jackie Button

Jackie provided an update.

Next inter-laboratory test:

Standard Test Method for Determination of Trace Contaminants in Hydrogen and Related Fuel Cell Feed Gases

Going to ballot:

Determination of Total Halocarbons contained in Hydrogen and other gaseous fuels

Name / Scope changed to:

Continued

Total halogenated compounds (“halocarbon determination requirements contained in SAE J2719” 0.1 ppb)

The inter-laboratory data is available to ASTM members (sub-committee and member labs). 0679 is open with data. The report should be out next month.

NIST Update

Juana Williams

U.S. Weights and Measures Standards Development Process

Commercial Device Type Evaluation Criteria

The NCWM NTETC-Measuring Sector Subgroup met on June 16, 2011 to continue work on the development of a draft Hydrogen Gas-Measuring Devices Checklist. The group will hold its next web/teleconference meeting on July 7, 2011. The group remains on schedule for developing a final draft of the checklist for comment and review by the USNWG in late July 2011.

SAE

Mike Steele

SAE J2719: Yesterday the second affirmation ballot closed with NO NEGATIVES! It now goes to the SAE Motor Vehicle Council. Congratulations to Mike Steele and the entire group.

SAE J 2600: J 2600 passed its second affirmation ballot and will also go to the Motor Vehicle Council and be published shortly.

Fuel Cell Forklifts/Indoor Fueling

Aaron Harris

Aaron Harris provided an update. HPIT-1 has made good progress and is moving forward with the tank sections. The draft should be completed this Fall. UL 2267 has open comments. STP members are reminded to address these comments and vote. The closing date is July 11, 2011.

NFPA 505 is meeting next week. Several proposals from Aaron Harris will be discussed. The proposals are similar to CNG conversion language.

NFPA 2 is starting to meet on refueling. Chapter 10 is being addressed.

Tank Testing

SNL

No update.

Sandia Modeling

SNL/Aaron

No update

Matrix of Leak Sizes – Risk Informed Standards

There has been additional work, but it has not been released.

CSA

Josip Novkovic

No update

Hydrogen Sensors

Robert Wichert

Hydrogen Sensors Task Force

Wednesday, July 13, 2011

12:00 Noon Eastern Time

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Continued

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- 6 Codes and Standards Organizations All
This is the opportunity for CDOs, SDOs, Panels,
Committees, etc. to provide updates and issues to the group.

ISO TC 197 US TAG

July 2011 Update ANSI-Accredited U.S. TAG for ISO/TC 197, *Hydrogen technologies*

2. Pending ballots

- ISO/DIS 20100, *Gaseous hydrogen — Fuelling stations*
The U.S. TAG vote closed on June 17. A TAG webconference will be scheduled mid- to late July to review the comments and determine the U.S. position.
The ISO ballot ends on August 21.
- Systematic review of ISO 22734-1:2008, *Hydrogen generators using water electrolysis process — Part 1: Industrial and commercial applications*
The U.S. TAG is requested to vote by August 26.

3. Ballot recently closed

- ISO/DIS 14687-2, *Hydrogen fuel — Product specification — Part 2: Proton exchange membrane (PEM) fuel cell applications for road vehicles*
The TAG voted "**Disapprove.**" This position and the list of comments were submitted before the ISO ballot closed on June 5. The results of voting have not been distributed.

4. Recent meeting

- WG 14, *Hydrogen fuel — Product Specification — Proton exchange membrane (PEM) fuel cell applications for stationary appliances*
June **27-28** in Grenoble, France

5. Future meeting

- WG 15, *Gaseous hydrogen — Cylinders and tubes for stationary storage*
July **20-21** in Paris, France

IEC TC 105 US TAG – None

Continued

NFPA

Paul May

Paul is unable to participate, but sent a brief update by e-mail:

- a. NFPA 55 - Comment closing date: August 30, 2011
- b. NFPA 52 - ROP Meeting: Quincy, MA for August 2-4, 2011
- c. NFPA 55 - ROC meeting date: Quincy, MA for October 4-6, 2011

ICC

No update

CSA

No update

Others

- 7 Open Discussion & Other Issues
 - a. For next meeting – ideas on how to encourage more industry participation
- 8 Next meeting August 3, 2011