

MINUTES OF THE FEBRUARY 2009 TELECONFERENCE OF THE NATIONAL HYDROGEN AND FUEL CELLS CODES & STANDARDS COORDINATING COMMITTEE

MEETING DATE: February 4, 2009
MEETING TIME: 3:00 – 4:30 PM (EST)
FACILITATOR: Robert Wichert

1 Roll Call - Robert Wichert

Teleconference meeting participants (85Kb PDF)

2 Review of Anti-Trust Guidelines – Sondra Ullman, Robert Wichert

Antitrust Guidelines (27Kb PDF)

3 Review of/Corrections to Draft Minutes of January 2009 Teleconference Meeting - Robert Wichert

No changes were requested. Minutes approved as drafted.

4 DOE/HQ Update – Antonio Ruiz

- International program abstract deadline passed, but papers can still be submitted.
- Workshops include wind and solar
- Hydrogen odorants solicitation coming
- Solicitation – sensor solicitation will be released
- Adding vehicle technology areas – batteries, ethanol dispensers, biofuels, gap analysis coming
- Working with PNNL and Hammer and CaFCP to put together a course for first responders using a fuel cell vehicle “prop”. Getting course with classroom component and hands-on release scenario – 1st pilot run next month – idea is to bring in OEMs and industry folks for feedback before launch – launch to 1st responders within a few months. Prop is mobile to educate code officials in different regions of the country. State of Washington.

5 California Hydrogen Standards - John Mough/Gary Castro

Leslie Goodbody from California Air Resource Board reported that the quality standard is done – still working on measurement standard. Chad Blake to call to get update for next time.

6 Hydrogen Industry Panel on Codes (HIPOC) Activities - Darren Meyers/Tom Joseph

Marty Gresho – HIPOC deliberated on code proposals for definition of bulk storage; how to include separation distance tables from NFPA 55- preferably be reference, - in-person meeting at NHA conference; HIPOC membership is open for reauthorization – new members being sought.

7 NFPA Activities – Paul May/Marty Gresho

Marty – The NFPA 2 committee is working very hard to put final touches on this extract document to get all the hydrogen requirements in one location – finishing essentially during February – voting February 24th on whether to issue document for public review on or about March 11 – The request for public proposals will run through May.

NHA to include link in March HFCSR.

NFPA 52 and 55 have received Notices for Intent to Make a Motion (NITMAMS) – June 8-11 meeting, issues and documents pending – earliest mid August publishing. Paul to send to include NITMAMS. Note:

Immediately following the meeting, Paul e-mailed the document to members of the committee. The entire report can also be found on the NFPA website, at http://www.nfpa.org/assets/files/PDF/CodesStandards/NITMAM_MC_Report_F08.pdf.

Robert also noted that NFPA 853 has a Report on Comments (ROC) meeting Apr 28 – May 1.

8 DOE/NREL Activities – Chad Blake

NREL Codes and Standards Permitting Workshop Tentative Schedule		
Location	Partner (s)	Tentative Dates
NREL/Boulder, CO	Clean Energy Development Authority/Jefferson County Fire Department	Feb 11-12
Los Angeles	CAFCP, CARB, Orange County FD	Late March
Columbia, SC	South Carolina Fuel Cell Alliance, Local FD	April 2-3
Seattle, WA	Lynnwood FD	April 28,29,30
Florida	Florida Department of Environmental Protection, Florida Bureau of Fire Protection	May
Houston, TX	Houston Area Regional Council, Houston FD	TBD
Bay Area California	BAAQMD, CAFCP, Local FD	TBD
Hartford, CT	Connecticut Hydrogen-Fuel Cell Coalition/ State Fire Marshals Office	TBD
Baltimore, MD	Held in Conjunction with the International Code Council Fall Meeting/ Maryland Department of the Environment	Sept. 2009
Honolulu, Hawaii	Hawaii Clean Energy Initiative	TBD
TBD/Possible Biofuels	TBD	TBD
TBD Possible Biofuels	TBD	TBD

9 IEC/TC105 Activities - Kelvin Hecht

WG1 Terminology document received a number of comments - hope to have document finalized by end of

year.

WG3 will be meeting in Ft Lauderdale next week, and will be well represented internationally.

WG4- a draft of a 2nd edition for FC performance posted, comments due to USTAG by April 15.

New work proposal put forth by JEMA. US has until early March to comment – need to know if the US wants to support this activity, and is there anyone who would like to sit as an expert – would be done by WG4 if it goes forward. If you have any feelings on this issue, please respond with your input.

10 ISO/TC197 Activities – Glenn Scheffler/Jill Thompson

Currently out for vote: ISO/DIS 26142, Hydrogen detector

Proposed U.S. comments were submitted by members of the TAG, and a webconference to review these comments was held on 20 January 2009.

A second webconference has been scheduled for Friday, 6 February 2009, from 12:00 PM to 2:00 PM to complete the review of the comments.

The ballot concludes 15 February 2009.

11 NIST Activities - Juanna Williams

a. International Standards-OIML R 139 Comments Due

This is just a reminder about the March 1, 2009 deadline for comments on the International Organization on Legal Metrology model regulation R 139 for "Compressed gaseous fuel measuring systems for vehicles." Stakeholder input is needed to establish a U.S. position on this document. This document corresponds to the draft NIST Handbook 44 Hydrogen Gas Measuring Devices Code under development by the USNWG. Please see <http://www.hydrogenandfuelcellsafety.info/2009/jan/usnwg.asp> for additional information.

b. NIST Hydrogen Web Page

NIST has a hydrogen web page that includes links to research and other projects currently underway. The web page links connect to information on the USNWG, chemical and physical property data, fuel cell links, ongoing projects, etc. The web site is available at www.nist.gov/hydrogen or www.nist.gov/public_affairs/hydrogen.htm.

c. U.S. National Work Group (USNWG) for the Development of Commercial Hydrogen Measurement Standards

The USNWG met by tele/webconference on January 30th. The USNWG will hold a tele/webconference meeting on February 24, 2009, 1:00 p.m. through 4:00 p.m. (EST). The next USNWG in-person meeting is at the CaFCP, Sacramento, CA on April 28-30, 2009.

i. Device Requirements

The USNWG will consider a proposed requirement for the location of required marking information and revisit minimum measured quantity requirements at its upcoming February 24th meeting.

ii. Fuel Quality Specification

The USNWG is moving forward with the interim California standard. The USNWG will consider recommendations for changes to the specification as other SDOs reach a consensus on necessary modifications to this requirement.

iii. *Method of Sale Requirements*

The USNWG made no changes to the proposed requirements. The USNWG plans to revisit the language to consider modifications under development by the SAE 2917 Fuel Quality Task Force. The Task Force has concerns that the proposed requirement for labeling refueling equipment with the percent hydrogen should also include text that references the appropriate fuel quality standard.

d. **Report on the January 2009 National Conference on Weights and Measures (NCWM) Interim Meeting**

The NCWM Specifications and Tolerances Committee made the proposed device requirements a developing item. The NCWM Laws and Regulations Committee made the fuel quality specification and method of sale requirements an information item. The USNWG anticipates it will have fully developed proposals ready for a vote and approval of the NCWM in July 2010. This will require an extensive amount of work up through August 2009 in preparation for the 2010 NCWM.

12 CSA America Activities - Julie Cairns/Connie Bielawski

No report

13 SAE Activities - Mike Steele/Glenn Scheffler

- January meetings were held
- March 17, 18, 19 Next meetings
- J 2578 and J 2579 are going back into revision cycle with ballot this year. Both of these were discussed during the GTR meetings.
J 2719 will also be revised, but will stay a TIR.
- The group noted the need for an update on GTRs next month, and asked Chad Blake to invite Nha Nguyen.

14 ASTM D.03 Activities - Jackie Birdsall

No updates – presented in January telecon

15 NHA Activities - Karen Hall/Geoff Bromaghim

The NHA held the first teleconference meeting of our 2009 Safety, Codes & Standards Steering Committee. More information about the steering committee, including the composition, is posted in the Hydrogen and Fuel Cell Safety Report. The committee is seeking nominations for individuals or companies that have performed exemplary service for the benefit of hydrogen safety, codes and standards. Nominations are not limited to NHA members. Nominations endorsed by the committee will be forwarded to the NHA Board for consideration.

16 USFCC Activities - Sondra Ullman/Tony Androsky

Tony reported a meeting approaching March 11, 12 – DGAC meeting, board activities in ICAO, transportation of micro fuel cells. Robert – good participation – next step updating ICAO transport regulations to include fuel cell vehicles for air transport. Friday 9am Eastern.

Tony - Joint hydrogen quality task force – clean solvents and joint USFCC, JARI, DOE meeting in March – possibly 13th. Fuel cells fuels, including hydrogen, have been approved for passenger carry on. Robert to provide article for upcoming Hydrogen and Fuel Cell Safety Report.

17 Open Discussion and Other Issues

- a. NHFCCSCC Meeting at the NHA Conference - Karen Hall
Friday, April 3, 2009.

Schedule:

- Leave Columbia: 8 a.m.
- Arrive Greenville: 10 a.m.
- Meeting: 10:30-noon (Call-in capability will be provided)
- Lunch: noon-1 p.m.
- Tour of CU-ICAR facilities, test cells: 1-2 .m.
- Return to Columbia: 2 p.m., arriving at 4 p.m.

Per the committees request during the January telecom, the NHA provides the following link to airline schedules from Columbia: <http://www.columbiaairport.com/flightschedule.pdf>.

The flight schedule from Greenville is provided here:
<http://www.gspairport.com/FSdepartures.shtml>.

Direct flights are available to and from Atlanta, Memphis, Detroit, Newark, Charlotte, Cincinnati, Dallas, Fort Lauderdale, LaGuardia, Philadelphia, and Washington, DC.

Karen noted that transportation will be provided between the conference and the meeting venue. She will circulate an e-mail requesting an indication of who is going to facilitate logistics.

- b. Anthony Amato provided an update on ASME activities via e-mail. B31.12 - Hydrogen Piping & Pipeline Standard will be published in March.

The project team is working on a code case for Fully Wrapped Fiber Reinforced Composite Pressure Vessels with Non-Load Sharing Liners for Gaseous Hydrogen in Stationary Service (up to 15,000 PSI).

15 Next Meeting

March 4th, 2009