

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

MEETING DATE: September 2, 2009

FACILITATOR: Karen Hall

1. Roll Call - Karen Hall

- [Participants](#) (11Kb PDF)

2 Review of Anti-Trust Guidelines - Robert Wichert

Robert Wichert reminded USFCC members of the Council's antitrust guidelines.

- [Antitrust Guidelines](#) (27Kb PDF)

3. Review of/Corrections to Draft Minutes of August 2009 Teleconference Meeting

Several participants had difficulty opening the minutes. Chad Blake resent them during the call, and Karen Hall asked that all corrections be sent to Chad within one week (September 9). Suggested changes would be made, if any. Otherwise the minutes would be deemed to be approved as written. Participants agreed with this approach.

4. DOE/HQ Update - Antonio Ruiz / Carl Rivkin

Carl Rivkin provided an update. Several meetings are coming up and Antonio will be directly involved. The French hydrogen safety conference is coming up in September. The Fuel Quality Task Group will meet in Berlin, September 9th through 11th. Hydrogen Safety School at the University of Ulster is also on his agenda. The current budget overview remains unchanged. There will be a short continuing resolution on the 2010 budget. Antonio has used his zero budget and has tried to bring projects to a logical closure where he can. He is working on a "worst case" assumption that there will be no funding, but that the project would release a work product at the end of September.

5. California Hydrogen Standards - John Mough

John Mough provided an update. The situation remains unchanged. ASTM is working on the hydrogen testing specification. The dispenser standard is also being worked.

ARB is supposed to fund 11 hydrogen stations. Four are in progress.

6. Hydrogen Industry Panel on Codes (HIPOC) Activities - Bob Boyd / Glenn Sheffler

Glenn Sheffler provided an update. There was a conference call last week.

7. NFPA Activities - Paul May / Marty Gresho

Paul May provided an update. NFPA 2 Proposals have been delayed. The ballot should go out in mid-September. December 28th is the published date for the ROP. Comment closing is March 5th, 2010.

NFPA 52 is considering slipping cycle to follow NFPA 55 by six months to facilitate absorption of NFPA 55 material into NFPA 52.

The standards council approved extracting the separation table from NFPA 55 into NFPA 52.

8. ICC Activities - Darren Meyers

No update

9. DOE / NREL Activities - Carl Rivkin / Chris Moen

The International conference on hydrogen safety will be held September 16-18, 2009 At the Congress Palace, AJACCIO - CORSICA, FRANCE. Carl will present an overview of US hydrogen codes and standards. A sensor paper will also be presented. The Hydrogen Quality Task Force is also meeting in September. A comprehensive codes and standards gap analysis is being assembled at NREL for a full spectrum of alternative fuels. A web page is also being assembled for the six fuels:

1. Hydrogen
2. Propane
3. CNG
4. Biodiesel
5. Ethanol
6. Electricity

DOE/Sandia Activities - Chris Moen

Daniel Dedrick provided an update. Testing for risk based analysis is progressing, including auto ignition testing. SRI testing for scaled tunnel analysis has started. This testing will look at ignition in tunnels. Bill Hough will be presenting a paper on tunnels at the NFPA 502 meeting in September. Fatigue crack growth testing for material handling (fork lift) trucks continues. There will be several papers at the ICHS conference.

10. Report on IEC/TC105 Activities – Kelvin Hecht

TC105 – Fuel Cell Technologies

Comments to be submitted to the USTAG early in October for establishing US position for the following:

WG#2 (Module)

2nd edition in CD phase

Major modifications – addition of shock & vibration tests

WG#5 (Stationary Power System – Installation)

2nd edition

Primarily editorial changes

WG#7 (Portable)

2nd edition in CD phase

WG#11 (Single Cell Test Method)

DTS submitted in July

WG #4 is working on a performance standard for small PEFC fuel cells. Another meeting will be held in November.

www.fuelcellstandards.com

August website activity

Visits - 4,839

Pdf downloads - 422

11. Report on ISO/TC197 Activities – Glenn Scheffler / Jill Thompson

ANSI-Accredited U.S. TAG for ISO/TC 197, Hydrogen technologies September 2009 Update

11.1 Votes pending

ISO/CD 14687-2, Hydrogen fuel — Product specification — Part 2: Proton exchange membrane (PEM) fuel cell applications for road vehicles. *U.S. TAG vote due September 8*

N418, New work item proposal for ISO 14687-3, Hydrogen fuel — Product specification — Part 3: Proton exchange membrane (PEM) fuel cell applications for stationary appliances. *U.S. TAG vote due October 19*

Systematic review of ISO 13984:1999, Liquid hydrogen — Land vehicle fuelling system interface. *U.S. TAG vote due November 2*

Systematic review of ISO 14687:1999, Hydrogen fuel — Product specification. *U.S. TAG vote due November 2*

11.2 Past meeting

U.S. TAG Meeting, August 27, 9:00 AM to 3:00 PM, CGA's office, Chantilly, VA

11.3 Future meetings

ISO/TC 197 & TC 22 Joint WG 5 Meeting, September 10-11, 2009, Surrey, British Columbia

ISO TC 197 Meetings, October 12-14

WG 12, Hydrogen fuel — Product specification, October 12-13

WG 11 (TG 1), Gaseous hydrogen — Service stations, October 13

ISO/TC 197 plenary – 0900h – 1800h, October 14, Location: Pacific Hall, COEX, Seoul, Korea, Host: Republic of Korea (KATS)

12. Fuel Cell Forklift Issues -- Aaron Harris

Aaron Harris provided an update. A conference call was held to discuss fuel cell forklift issues. A Fuel Cell Fork Lift Task Force has been established. The next call is scheduled for Tuesday, September 9th, 2009 at 1:00 PM Eastern Time.

Laurie Florence reported that Joseph Musso, the Chair of UL 2267, has agreed to open a task group to work on proposals to improve the section of UL 2267 on fuel storage. Anyone who wants to participate should contact Laurie Florence.

13. NIST Activities – Juana Williams

Juana Williams provided an update. The Workgroup met in Gaithersburg Maryland to consider legal metrology requirements. The Workgroup has agreed to forward their recommendations. Draft 5.0 on legal metrology requirements was developed for the August meeting. Draft 3 of the sale requirements were developed in April. More data will be collected. Diane Lee will collect the data. It is necessary to confirm that there is one viable field verification method available.

NIST continues to attend the meetings to support the work.

The dispenser standards could be finalized by July 2010 for voting. If they pass, they would be published in Handbook 44 in the 2011 version (December 2010).

14. CSA America Activities – Julie Cairns/ Connie Bielawski

Julie Cairns provided an update. Several groups will be meeting at the general meeting. Drafts are to be

finalized by the end of the year.

15. SAE Activities – Mike Steele / Glenn Scheffler

Mike Steele and Glenn Sheffler provided an update. SAE Fuel Cell Standards working groups will meet Sept. 14, 15 and 16 in Troy, Michigan. SAE is coordinating this work with CSA. Localized fire will also be discussed.

16. ASTM D.03 Activities – Jackie Button

- [Jackie's Report](#) (51Kb PDF)

17. Report on Draft NHA Codes & Standards Priorities for 2009-01-09 – Karen Hall / Geoff Bromaghim

Karen Hall provided an update. Codes & Standards presentations were made in India. The Indian Bureau of Standardization is involved. One high priority issue was identified: Hydrogen / Natural Gas blends for vehicles. The proceedings will be made available on the PATH website (www.hpath.org) with a link from the Hydrogen and Fuel Cell Safety Report website once they are available.

18. USFCC Activities – Sondra Ullman/ Robert Wichert

Robert Wichert provided an update. The USFCC has established a Fork Lifts Task Force, meeting next Tuesday. The USFCC Regulatory Priority Matrix has been updated to move IEC 62282-6-100 down in priority and move Fuel Cell Fork Lifts and hydrogen metrology up in priority. USFCC recently supported the NFPA 2 meeting by representing NFPA 853 with the NFPA Task Force Leader, Robert Wichert.

19. Open Discussion

None.

20. Next Meetings

Next Teleconference Meeting – October 7th 2009, 11:00 AM US Eastern Daylight Time.

Opportunity for an in-person meeting: Fuel Cell Seminar, November 16 – 19, Palm Springs.