



Fuel Cell &
Hydrogen Energy
Association

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

**Wednesday, October 5, 2016
TIME: 3:00 – 4:30 pm (Eastern Standard Time)**

Draft Minutes

Attendees

**Karen Quackenbush
Jay Keller
Norm Newhouse
Susan Bershad
Ernst Baumgartner**

**Robert Neale
Will James
John Grimes
Brent Hartman
Juana Williams**

**Mike Steele
Sandra Curtin
Sara Marxen
Bob Boyd**

I. Welcome and Housekeeping Items

Review FCHEA's anti-trust guidelines - Available on FCHEA's members only website and a copy can be provided to you on request.

Reviewed and approved the meeting agenda.

Approve the August and September draft meeting minutes. **(Deferred from last meeting)**

August minutes not distributed. September minutes approved. Need to distribute August minutes for review.

II. DOE/HQ Update

Will James

FY 2017 started. Fuel Cell Market Report shows increase in fuel cells shipped and increased megawatts. Market is starting to take off. Press and social media also planning announcements for National Hydrogen and Fuel Cell Week.

III. C&S Events and Fuel Cell Safety Information

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

Kelvin Hecht

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

Karen Quackenbush

Request: technical resource updates for the Hydrogen and Fuel Cell Safety website. Any committee members who have materials they would like hosted on the website can send them to Karen Quackenbush (khall@fchea.org) or Connor Dolan (cdolan@fchea.org).

Request: Please notify Karen or Connor of any meetings / events to add to the calendar.

H2@Scale invitation-only workshop in mid Nov – contact Jay Keller for an invitation.

Add ISO/TC 197 WG 24 first few days December, and other ISO WG mtgs Nov and Dec.

IV. Global Technical Regulations

Nha Nguyen

No report. First meeting of phase II to take place in December.

V. Codes and Standards Organization Updates

IEC TC 105

Kelvin Hecht

Plenary Meeting

October 12 -13, Frankfurt, Germany

WG 10 starting back up – experts on data and communications

ISO/TC 197

Glenn Scheffler/Jay Keller

WG 24 change of leadership both in France and USA. Jesse Schneider has announced a reassignment within BMW. Jay is covering on a temporary basis while the US TAG identifies candidate.

NFPA 2

Susan Bershad

Oct 17-19 First Draft continuation meeting in Quincy, MA. Approximately 150 public inputs remaining to cover.

ICC

Bob Davidson

No report.

CSA

Sara Marxen

HGV 4.3 working with SAE to get J2601 update on MC method incorporated.

CHMC – working with Mike Veenstra to head task group to cover non-metals.

CSA Committee week in Phoenix last week – some new folks to get involved in CHMC.

HPIT 2 going to TC ballot in the next week or so.

SAE

Mike Steele / Tim McGuire

Meetings 13-14 Sept. Interface WG voted to affirm J2601 changes (including MC method). Affirmation Ballot closes Oct 6th.

Started project to reaffirm SAE J2574 – recycling. New sponsor to be engaged for next revision. Next meetings Nov 8-9.

ASTM

Tommy Rockward

No update provided.

ASME**John Grimes**

Ballot for composite piping for hydrogen service is about to close to approve the code case. Published by end of year.

VI. Discussion Topics**Facilitating Deployment****Carl Rivkin**

No report.

H₂USA Activities**Karen Quackenbush**

RCS Task Group addressing specific questions from regulators as well as industry.

H2FIRST**NREL/SNL**

Three projects for FY17. 1. Reference station design phase 3 – urban station siting; underground storage, rooftop hydrogen storage, cost estimation, station design and outreach. 2. Optimization of fill temp limits. Develop open fueling model – validate. 3. Hydrogen contaminant detector project. Can do back-to-back fills simulation.

Regulatory Matrix Review and Comment**Karen Quackenbush**

Matrix under development – items which have no reported progress and cannot be validated are to be removed.

Experts in micro fuel cell power systems power and data interchangeability are encouraged to join IEC/TC 105 WG 10.

VII. Permitting and Installation of Hydrogen Fueling Stations**Ca Station Implementation****Jennifer Hamilton**

No report.

Ca DMS Fuel Quality / Metrology**Kevin Schnepf**

No report.

Fueling Compliance**Sara Marxen / Jesse Schneider**

Remove from agenda going forward.

Legal Metrology Standards Hydrogen Fuel Quality and Measurement**Juana Williams**

Nothing new to report. Mike Steele asked about potential changes from ISO/TC 197 working group 27 – Juana confirmed she is aware.

VIII. Open Discussion & Other Issues

Unauthorized fueling

Bob Boyd/Spencer Quong

NFPA 2 Task Group to address some aspects. Leaning toward restricting maximum pressure of non-comm fills. SAE J2601 may also need to look at this. Key issue relates to ambient temperature fueling with back-to-back non-comm 70 MPa fills. Also addresses concern of rogue systems with mismatched vessels. Also some discussion within ISO/TC 197 WG 24. This issue will move back to SAE.

Other Issues?

IX. Next Meeting

The next meeting will take place on Wednesday, November 2, 2016 at 3:00 PM Eastern.