

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

**Wednesday, September 6, 2017
TIME: 3:00 – 4:00 pm (Eastern Standard Time)**

Minutes

Attendees

**Amy Ryan
Brent Hartman
Connor Dolan
Elan Bond
Eric Nelson**

**Gregory Chirdon
Karen Quackenbush
Laura Hill
Marcia Poxson
Mike Steele**

**Nick Barilo
Spencer Quong
Stella Papasavva
Susan Bershad**

I. Welcome and Housekeeping Items

- Reviewed FCHEA's anti-trust guidelines - Available on FCHEA's members only website and a copy can be provided to you on request.
- Approved the meeting agenda as modified to reflect current presenters.
- Approved the previous meeting minutes for August 2017.

II. DOE/HQ Update

Laura Hill

No major updates.

H2 @ Scala CRADA call is currently out. Accepting proposals through September 15th.

<https://www.nrel.gov/hydrogen/h2-at-scale-crada-call.html>

H2 @ Scale workshop will be held on the afternoon of November 7th at the Fuel Cell Seminar in Long Beach, California.

www.fuelcellseminar.com

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.

IV. Global Technical Regulations

Nha Nguyen

Meeting on the calendar this Fall. Will seek report following that meeting.

V. Codes and Standards Organization Updates

IEC TC 105

Kelvin Hecht

No report at this time.

ISO/TC 197

Glenn Scheffler/Jay Keller

Plenary this year is in December in China. Registration is available online. Recently been a number of documents out by various countries. Comments and concerns being addressed with national positions and results are now coming in. Even if US position was disapprove with comments, there were enough positive votes for approval. The technical comments are now being addressed. For instance, 12 pages of technical comments were submitted for the hoses document.

NFPA 2

Susan Bershad

Working to get NFPA 2 out for ballot.

NFPA 55 ballot has closed today. Final results will be posted soon.

NFPA 850 getting ready to meet in October. Power Generation Plant.

ICC

Bob Davidson

No update at this time.

CSA

Brent Hartman

CHMC 2 – next meeting Sept. 20th. Materials compatibility for non-metals. Received several expert nominations/recruits to participate in effort.

HGV 4.3 – next meeting in conjunction with SAE meeting next meeting (2601 group) – both groups will meet next month during Committee Week.

SAE

Mike Steele

Next week will complete meetings. 12-13th in Troy Michigan.

Looking at moving upcoming meetings to California to accommodate the Fuel Cell Seminar in November, targeting the 2nd and 3rd.

ASTM

Jennifer Hamilton

No report at this time.

ASME

John Bendo

No report at this time.

VI. Discussion Topics

Facilitating Deployment

Carl Rivkin

Nick Barilo – Tampa in August presenting at Energy Exchange Conference. Geared towards facility and fleet managers regarding energy systems at government level. 100 people in room, well received. Aimed at discussing where the technology is at and where the opportunities are.

Hyundai Tucson has been added to the GSA fleet schedule and anticipated the 2018 Hyundai Tucson will be added next year.

H₂USA Activities

Karen Quackenbush

There is ongoing analysis regarding video training tools that have been developed in large multi-national programs for emergency responders and others on various scenarios. H2USA members are determining whether these existing resources are suitability moving forward for our efforts.

H2FIRST

NREL/SNL

No report at this time.

Regulatory Matrix Review and Comment

Karen Quackenbush

Last update as of June 30, 2017.

<http://www.fchea.org/s/FCHEA-Regulatory-Matrix-markup-June-30-2017-l95k.pdf>

Permitting and Installation of Hydrogen Fueling Stations

Ca Station Implementation

Jennifer Hamilton

30 hydrogen stations now open to the public in California. Another 30 stations are in various stages of planning, permitting, and construction.

Ca DMS Fuel Quality / Metrology

Kevin Schnepf

No update at this time.

Legal Metrology Standards Hydrogen Fuel Quality and Measurement

Juana Williams

No update at this time.

VII. Open Discussion & Other Issues

Other Issues?

Fuel Cell Seminar and Energy Exposition – November 7-9

A complete track has been developed on hydrogen infrastructure, including components, safety aspects, heavy-duty trucks, etc.

Other sessions on MEAs, catalysts, etc. will still be featured, but have broadened sessions to many other topics.

VIII. Next Meeting – Tentatively – Wednesday, October 4th at 3:00 PM