**HIPOC**

**Teleconference Meeting –** *Minutes*

**Wednesday, October 26, 2011 – (12:00 – 2:00pm ET)**

Toll-free: +1-8773202367  
Participant Code: 6870884

1. **CALL TO ORDER** – 12:00pm, Chair
2. **ROLL CALL ESTABLISHMENT OF A QUORUM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Panelists** |  | | **Present** | **Category** |
| 1 | Robert Boyd (Chair)/Tom Joseph | boyd.hydrogen@gmail.com  Alt. – [bh2i@ptd.net](mailto:bh2i@ptd.net) | | Y/n | Industrial Gas & Chemical |
| 2 | Iby George/Bob Davidson | [ibygeorge@co.clarke.ga.us](mailto:ibygeorge@co.clarke.ga.us)  Alt. – [rjd@davidsoncodeconcepts.com](mailto:rjd@davidsoncodeconcepts.com) | | N/y | Code Enforcement |
| 3 | Marty Gresho/Scott Heyworth | [marty@fp2fire.com](mailto:marty@fp2fire.com)  Alt. – [scott@fp2fire.com](mailto:scott@fp2fire.com) | | N/n | NFPA 2 |
| 4 | Brian Ladds | [Brian.Ladds@calgary.ca](mailto:Brian.Ladds@calgary.ca)  Alt. | | Y | Code Enforcement |
| 5 | Greg Milewski | [Gregory.Milewski@shell.com](mailto:Gregory.Milewski@shell.com)  Alt. – t.b.d. | | N | Energy Company |
| 6 | Charles Henrici/Mike St. Clair | [cbhenrici@juno.com](mailto:cbhenrici@juno.com)  Alt. – [St-clair.1@osu.edu](mailto:St-clair.1@osu.edu) | | N/n | NFPA 55 |
| 7 | John F. Mueller/Mark Mallick | [John.Mueller@dos.state.ny.us](mailto:JMueller@dos.state.ny.us)  Alt. – [Mark.mallick@dos.state.ny.us](mailto:Mark.mallick@dos.state.ny.us) | | N/n | Code Enforcement |
| 8 | Nancy Pehrson/Dave Farese | [nancy.pehrson@centerpointenergy.com](mailto:nancy.pehrson@centerpointenergy.com)  Alt. – [FARESEDJ@airproducts.com](mailto:FARESEDJ@airproducts.com) | | N/n | NFPA 52 |
| 9 | Mark Richards/Aaron Harris (Vice Chair) | [Mark.Richards@versa-power.com](mailto:Mark.Richards@versa-power.com)  Alt. – [aharris@nuvera.com](mailto:aharris@nuvera.com) | | N/Y | Fuel Cell Industry |
| 10 | Bill Houf/Isaac Ekoto | [will@sandia.gov](mailto:will@sandia.gov)  Alt. – [iekoco@sandia.gov](mailto:iekoco@sandia.gov) | | Y/y | Academic/Research |
| 11 | Mike Steele | [msteele308@gmail.com](mailto:msteele308@gmail.com)  Alt.- tbd | | N | Fuel Cell Hydrogen Vehicles |
|  | |  | **Quorum?** | **N** |  |
|  | **Guests** |  | |  |  |
|  | Karen Hall  Jeff LaChance  Carl Rivkin  Marc Belzile |  | | Y  N  N  Y | FCHEA  SNL  NREL  Transport Canada |
|  | **Staff** |  | |  |  |
|  | Chad Blake | [chad.blake@nrel.gov](mailto:chad.blake@nrel.gov) | | Y | NREL |
|  | Paul May | [pmay@nfpa.org](mailto:pmay@nfpa.org) | | Y | NFPA |
|  | Bruce Johnson  Justin Wiley | [bejohnson@iccsafe.org](mailto:bejohnson@iccsafe.org)  [jwiley@iccsafe.org](mailto:jwiley@iccsafe.org) | | N  N | ICC |

2.a. Due to a lack of quorum, no actions were taken and the meeting was rescheduled for November.

1. **REVIEW, AMEND, TIME CONSTRAINTS/MOVE ITEMS, APPROVE AGENDA**
2. **APPROVAL OF MINUTES**
   1. The minutes from the September meeting were not approved, due to the lack of quorum.
3. **ADMINISTRATIVE ISSUES**
   1. John Mueller is retiring at the end of September and there is a need to establish if he is willing to continue participation or if a replacement will be necessary.
4. **OLD BUSINESS**
   1. **Report from NFPA** 
      1. NFPA 55 will be undergoing the Report on Comments phase during October 4-6 in Quincy, MA.
         1. A general discussion was held on the redefining of bulk hydrogen systems to 5,000 scf to make the code less stringent to smaller quantities. At this time, there does not appear to be changes to the requirements that came out of the ROP.
      2. Hydrogen has been removed from NFPA 52. In the meantime, there may still be a need to have CNG experience represented on the panel. The ROP should be published and posted by the end of the year. The ballot material from the ROP is can be found here:

<http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=52>

* + 1. Consideration is being giving by the Technical Committee on Hydrogen Technology to move NFPA 2 from the Fall 2013 revision cycle to the Fall 2014.
  1. **Report from ICC**
     1. Digital and hard copies of the IBC and IFC codes were shipped to panelists in September. The digital copies were shipped on CD’s. In October ICC shipped hard copies of the IFGC.
     2. Three ICC Code action committees have been established and met September 20 and 21. The Fire Code Action Committee will also be addressing IBC Chapters 7, 8, 9, 14 and 26; IFC; ICC Performance Code; IWUIC. The ICC Annual Conference will take place from Sunday, October 30 to Sunday, November 6. Justin will provide an agenda to the panel. The next will be held December 6-7 at Four Points Sheraton, Chicago.

http://www.iccsafe.org/cs/cac/Pages/default.aspx

* + 1. Change Proposal Submittals for the 2015 edition of the ICC are due January 3, 2012.
  1. **Report from Industry**
     1. There were no updates on industry at this time.
     2. A video on the state of the hydrogen fuel cell industry was produced by NREL and is available at the following link <http://www.youtube.com/watch?v=76ujMtLr5Z8>

* 1. **Working Group – ICC/NFPA-2**
     1. **Members:** Aaron H. (Chair), Brian L., Bob Boyd, Bill H. Bob Davidson, Carl Rivken.
     2. **ICC** - HIPOC review both the 2012 IBC and IFGC and submit all 2015 code change proposals by the January 2012 deadline (Group A Cycle). The IFC deadline is January 2013 (Group B Cycle). ICC Staff will determine if a proposed change to the IBC needs to be deferred to the Group B cycle.
     3. Industry members are directed to look at Chapter 7 of the International Fuel Gas code for the purposes of harmonizing with NFPA 55 and NFPA 2.
     4. **Review of proposal regarding Modular H2 Stations.** Bob Boyd and Bob Davidson to draft proposed language and justification for changes to the IBC. HIPOC can review the proposed language and provide support and guidance. The Building Code Action Committee has been approached and HIPOC is tentatively planning on adding language to section 406 or after 406 to find modular stations built from an isobox as equipment and not as structures.
  2. **Working Group – 29 CFR** [**1910.103**](http://www.osha.gov/pls/oshaweb/owalink.query_links?src_doc_type=STANDARDS&src_unique_file=1910_0103&src_anchor_name=1910.103)
     1. **Members:** Antonio Ruiz, Aaron Harris, Carl Rivkin, Kelvin Hecht, Bill Collins, Bob Boyd, and Bruce Johnson, Carl Rivkin had agreed to chair.
     2. The next step is to seek assistance from an OSHA representative and to request that they update their material on hydrogen.
     3. Easiest approach may be to update the links to NFPA-55 (NFPA-2)

* 1. **NYC is updating Building and Fire Code.** Bob Davidson is a member of the FDNY 2011 Fire code revision project Advisory Committee on the technical committee and is looking for feedback. Bob D has submitted the latest (2012) IFC language on H2 as new provisions in the NYC code.

As a member of the I submitted the attached two proposals for consideration by FDNY. The proposals is accepted would put the Chapter 22 language for hydrogen motor-fueling back into the NYC Fire Code using the language from the 2012 IFC. The modifications to Chapter 35 would match the intent to refer to NFPA 55 for the location of hydrogen storage.

Bob shared his FDNY Fire Code proposed changes with the panel and the HIPOC should review his changes and consider a letter of support during the public comment period.

Chapter 35 limits H2 gas at 3500 scf (8.25 kg). If the Davidson proposals are approved then the 3500 scf limit may be able to be changed later in the code development process.

Bob will advise when the public comment period is open and when further support from HIPOC will be needed. Progress is ongoing.

* 1. **HIPOC Long Term Schedule**
  2. **Action Item Update**
     1. Bob Davidson and Carl Rivken will work to coordinate changes IBC, IMC and IFC to harmonize NFPA-2 with respect to hydrogen fueling including electrolyzer requirements. This is a HIPOC general task and part of the ICC/NFPA-2 working group task
     2. **ACTION:** Mike Steele to review with the SAE for a viable candidate for replacement. No report for August.

1. **NEW BUSINESS**



1. **SIGNIFICANT DATES**
   1. **NFPA 55 – ROC meeting date:** Quincy, MA for October 4-6, 2011
   2. **2011 FCHEA Fuel Cell Seminar:** October 21-November 3, 2011
   3. **ICC Group A Edition Proposal Closing Date:** January 3, 2012
   4. **ICC Group B Edition Proposal Closing Date:** January 3, 2013
2. **NEXT MEETING(S)**
   1. **Next Web Meeting:** 
      1. The next meeting is scheduled to take place on Wednesday, November 16 from 12:00-2:00PM ET (11:00AM-1:00PM CT; 10:00AM-12:00PM MT; 9:00-11:00AM PT).
   2. **Next In Person:**
      1. Consider meeting in at the next FCHEA annual show in March? 2012
3. **ADJOURNMENT**
   1. The meeting adjourned at 12:30 PM ET.