



# INTERNATIONAL CODE COUNCIL, INC.

## Hydrogen Ad Hoc Committee

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August 14, 2000

**TO:** Hydrogen Ad Hoc Committee

**FROM:** Darren Meyers, Secretariat

**SUBJECT:** Meeting Announcement (August 30/31, 2000)

**ADDITIONAL DISTRIBUTION:** Hydrogen AHC Advisory and Interested Parties

Attached are a tentative list of subjects for the proposed agenda, a Statement of Purpose and Objectives (Ad Hoc Hydrogen SCOPE3.doc), hotel information (Hotels ICC List.doc) and directions to the offices of the National Hydrogen Association for the August 30<sup>th</sup> / 31<sup>st</sup> meeting of the ICC Hydrogen Ad Hoc Committee (AHC). This material has been sent electronically to the distribution list (H2 Roster MSWord.doc) attached. A hard copy of the preparatory material for consideration at this meeting will be sent to AHC members and staff by the end of the week. The material consists primarily of excerpts from the 2000 *International Building Code*<sup>7</sup> and applicable codes and standards referenced therein. Additional and relevant industry standards along with other sources of relevant information may be included as soon as they are available.

Take a moment to carefully review the Statement of Purpose and Objectives for the AHC. Please come to the meeting prepared to discuss whether the Statement of Purpose and Objectives correctly identify issues that are relevant to the integration of matters affecting or relating to the use of hydrogen in vehicular and portable applications in model construction codes. An advanced review of the forthcoming applicable code excerpts, standards and other relevant information is critical to establishing how the current code structure intends to deal with specific fire safety, means of egress and general safety hazards consistent with the stated purpose of this effort.

Upon review of the agenda and forthcoming preparatory material it would be very useful if you would generate your own "short-list" of questions, comments and other issues of concern. In some instances, you may be asked to suggest resolution to the issues or comments you have provided. This may require time outside of committee discussion. If you have your own copies of the 2000 *International Building, Fire, Fuel Gas, Mechanical, or Residential Codes*, please bring them. You may find the code text useful during the course of the meeting.

Expect a vigorous discussion at the meeting. We plan to cover a lot of subject matter. Do not expect to have a solution for every comment, situation or issue at this meeting. Three meetings are anticipated in calendar 2001 at convenient locations that minimize the expense to ICC, with conference calls and electronic correspondence as necessary between meetings.

Thank you to everyone for your patience in awaiting this announcement. Please do not hesitate to ask if there is anything else you need to know. See you in two weeks!

**ICC Hydrogen Ad Hoc Committee Meeting #1**

**August 30<sup>th</sup> and 31<sup>st</sup>, 2000**

National Hydrogen Association  
1800 M Street, NW, Suite 300 c Conference Room  
Washington, D.C. 20036-5802

**AGENDA, AUGUST 30<sup>TH</sup>**

DAY 1 - INFORMATIONAL AND WORKING SESSIONS

8:00 Arrival (continental breakfast: coffee, juice, rolls - provided)

8:30-9:30 Introductions and Welcome

(5 min.) - Scope and objectives (Darren Meyers, BOCA)

(5 min.) - Introductions (All)

(20 min.) - Visions of the effort (Neil Rossmeissl, DOE Office of Utility Technologies)  
(Robert Mauro, NHA)  
(Algis Vasys, Cambridge Associates)

(30 min.) - Presentation of H<sub>2</sub> video

9:30-10:30 Understanding Hydrogen and its Properties

(20 min.) - Review of H<sub>2</sub> properties, production, storage, handling and use (Dr. Jim Hansel - Air Products)

(20 min.) - Results of safety studies and comparisons (Dr. Mike Swain - University of Miami)  
§ Development of a "Hydrogen Risk Assessment Method"  
§ Fuel leakage tests (residential garages)  
§ Permeability of hydrogen as it relates to safety  
§ Underground parking applications

(10 min.) - Questions and answers

10:30-10:40 BREAK!

10:40-11:00 Status and Review of H<sub>2</sub> Vehicles, Fueling and Repair Facilities

(10 min.) - Sunlite transit (Neil Rossmeissl)

(10 min.) - H<sub>2</sub> vehicles (Dr. Jim Hansel)  
§ California Fuel Cell Partnership  
§ Chicago Transit Authority  
§ Nevada project

11:00-11:20 Portable Power Generators (Stephen Leutbecher, Coleman Powermate)

- What does portable really mean?

11:20-11:40 Status of NHA Activities and ISO/TC197 (Karen Miller, NHA)

11:40-12:00 Perspectives from the Insurance Industry (Don Drewery, HSB Professional Loss Control)

12:00-1:00 LUNCH! (catered)

*August 14, 2000  
Agenda, Meeting #1*

1:00-2:00 Basics of International Code Development (Darren Meyers)

WORKING SESSION BEGINS

2:00-2:20 Presentation of General Approach (Darren Meyers)

(5 min.) - Status of the project

(10 min.) - Review of goals for the meeting

(5 min.) - Nominations for Chair/Vice Chair (to Committee)

2:20-2:30 BREAK!

2:30-4:00 Working Session

(5 min.) - Election results (Secretariat)

(10 min.) - Discuss roll/participation of nonvoting parties (Chair to Committee)

(60 min.) - Discuss global issues in-concept@ (Chair to Committee)  
§ Scope and application of NFPA 50A and 50B by reference in the IFC  
§ Define portable.  
§ Scope and application of NFPA 70 (NEC) Article 500c Hazardous (Classified) Locations  
§ Other issues as determined by the committee

(15 min.) - Resolve discussion items

4:00-4:15 Feedback on General Approach and Agenda for Day 2 (Chair to Committee)  
(i.e., Are Scope & Objectives on target? More or less or different emphasis?  
Additions or deletions to August 31<sup>st</sup> Working Session?)

4:15-4:30 Review & Summary (Chair and Secretariat)

- Issues resolved

- Issues pending resolution

**AGENDA, AUGUST 31<sup>ST</sup>**

DAY 2 - WORKING SESSION CONT...

8:00 Arrival (continental breakfast: coffee, juice, rolls - provided)

- 8:30-10:00 Garages and Carports (Chair to Committee)
- Hazardous locations (ICC) vs. Hazardous (Classified) Locations (NEC)
  - Location of equipment, appliances and ignition sources
  - Fire-resistance rated construction
  - Hazardous detection/ventilation/exhaust safeguards
  - Self-service or remote fueling of vehicles
  - CNG service stations?
  - Definitions
- 10:00-10:10 BREAK!
- 10:10-12:00 Service Stations, Repair Garages and Marine Service Stations (Chair to Committee)
- Hazardous locations (ICC) vs. Hazardous (Classified) Locations (NEC)
  - Location of equipment, appliances and ignition sources
  - Fire-resistance rated construction
  - Hazardous detection/ventilation/exhaust safeguards
  - Distribution to site
  - Tanks and containers
  - Self-service or remote fueling of vehicles
  - Definitions
- 12:00-12:30 Working LUNCH! (catered)
- 12:30-2:00 Parking Garages (Open and Enclosed) (Chair to Committee)
- Hazardous locations (ICC) vs. Hazardous (Classified) Locations (NEC)
  - Location of equipment, appliances and ignition sources
  - Fire-resistance rated construction
  - Hazardous detection/ventilation/exhaust safeguards
  - Definitions
- 2:00-3:30 Portable and Home Standby Power Generators (Chair to Committee)
- Hazardous locations (ICC) vs. Hazardous (Classified) Locations (NEC)
  - Location of equipment, appliances and ignition sources
  - Fire-resistance rated construction
  - Hazardous detection/ventilation/exhaust safeguards
  - Self-service or remote fueling of vehicles on site
  - Definitions
- 3:30-4:00 Review & Summary (Chair and Secretariat)
- Issues resolved
  - Issues pending resolution
  - Draft schedule for proposed activities, code review and code development
  - Adjournment of WORKING SESSION #1

**The National Hydrogen Association**  
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**Washington, DC 20036-5802**  
**Tel: 202.223.5547**  
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**FROM WASHINGTON D.C. to REAGAN NATIONAL AIRPORT (45 MIN.):**

1. Follow signs for 395 NORTH WASHINGTON; you will be on the GEORGE WASHINGTON PARKWAY

- toward Washington, D.C.
2. Take exit for ARLINGTON MEMORIAL BRIDGE. NOTE: Be careful NOT to exit on right side of GW PKWY before the Memorial Bridge, there are several opportunities to exit and each will not take you to the bridge.
  3. Make sure you get into the LEFT-HAND LANE while on the Memorial Bridge.
  4. Make a LEFT-HAND TURN on to 23<sup>RD</sup> STREET.
  5. Take a RIGHT on to H STREET.
  6. Make a LEFT on to 18<sup>TH</sup> STREET. The office is on the LEFT-HAND side at the corner of 18<sup>TH</sup> and M STREETS

### **FROM BALTIMORE to BALTIMORE/WASHINGTON INTERNATIONAL AIRPORT (60 MIN.):**

7. Follow signs for 295 SOUTH WASHINGTON; you will be on the BALTIMORE/WASHINGTON PKWY SOUTH toward Washington, D.C.
8. About five (5) miles inside the Washington Beltway (US 495), bear RIGHT on to US 50 WEST/NEW YORK AVE.
9. Make a SLIGHT RIGHT on to L STREET, NW.
10. Make a SLIGHT RIGHT on to MASSACHUSETTS AVE, NW almost : of the way around on the roundabout.
11. Enter the next roundabout (SCOTT CIRCLE) and take 4<sup>TH</sup> EXIT onto RHODE ISLAND AVE, NW.
12. BLEND-T0-THE-RIGHT onto M STREET, NW at CONNECTICUT AVE. The office is on the LEFT-HAND side at the corner of 18<sup>TH</sup> and M STREETS.

### **FROM WASHINGTON DULLES INTERNATIONAL AIRPORT (30 MIN.):**

13. Get on to the DULLES AIRPORT ACCESS ROAD, NOT the Toll Road although they both will get you there.
14. Take I-66 EAST.
15. Continue for about 10 miles on I-66 EAST, crossing the Potomac River on ROOSEVELT BRIDGE.
16. Take the E STREET EXIT and then KEEP RIGHT to get onto E STREET.
17. Make a LEFT onto 18<sup>TH</sup> STREET. The office is on the LEFT-HAND side at the corner of 18<sup>TH</sup> and M STREETS.

### **BUS AND SUBWAY INFORMATION:**

(202) 637.7000 (TDD 202.638.3780). Nearest subway stations to 1800 M Street., NW, are FARRAGUT WEST on the BLUE/ORANGE line and FARRAGUT NORTH on the RED line.

For FARRAGUT WEST (BLUE/ORANGE LINE) use the 18<sup>TH</sup> STREET exit. Proceed to street level, continue straight-down 18<sup>TH</sup> STREET, across K and L STREETS and continue on 18<sup>TH</sup> STREET. The office is on the LEFT-HAND side at the corner of 18<sup>TH</sup> and M STREETS.

For FARRAGUT NORTH (RED LINE), use the L STREET exit at the end of the platform and turn 180E at the top of the escalator to walk-up CONNECTICUT AVE. Make a LEFT onto M STREET, crossing CONNECTICUT AVE. and continue 3 of a block to 18<sup>TH</sup> STREET. Cross 18<sup>TH</sup> STREET. The office is at the corner of 18<sup>TH</sup> and M STREETS.

### **PARKING:**

The parking lot for the building is located on 18<sup>TH</sup> STREET between L and M STREETS, right after the alley on the left-hand side.