



ICC Hydrogen Ad Hoc Committee Meeting #7

November 19th and 20th, 2003

National Renewable Energy Laboratory
1617 Cole Blvd. — Building 17, Fourth Floor Conference Rm.
Golden, Colorado 80401-3393
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AGENDA - WEDNESDAY, NOVEMBER 19TH

INFORMATIONAL & WORKING SESSIONS

8:00 Introductions and Welcome (NREL)
Scope and objectives for meeting
Status of the AHC and whether to continue work
Approval of Meeting #6 minutes

8:15 Debrief Nashville hearings.
International Fuel Gas Code (FG4, FG46, FG47, FG48)
International Fire Code (F152, F153, F154, F155, F156/F157, F169, F181)



"Nashville Hearing
Rpt Hydrogen_FINAL

9:00 PRESENTATION: Separation Distances Project, Work at Sandia National Laboratory (interactive exercise)
Jay Keller, Bill Houf, Chris Moen—Sandia National Laboratory

9:30 PRESENTATION: "Selection of scenarios for physical and numerical modeling to determine safety separation distances for placement of hydrogen energy stations," Gary Howard—Stuart Energy

10:00 *BREAK!*

10:15 PRESENTATION: Separation Distances Project, Work at University of Miami
Mike Swain—University of Miami, Coral Gables

10:45 **F153-03/04:** Revisions to Separation Distances, Public Comment?

11:15 PRESENTATION: Underground Liquid Hydrogen Storage--Pulling together a strong case of technical support
Tom Joseph— Air Products & Chemicals, Inc.

11:45 LUNCH (NREL has made plans to provide a lunch service for purchase on site.)

12:30 **F155-03/04:** Underground Liquid Hydrogen Storage, Public Comment?

2:00 *BREAK!*

2:15- **F154-03/04:** Gaseous Hydrogen Systems Located on Canopy-tops, Public Comment?
- Pulling together a strong case of technical support.
- Protected construction?
- C-store location?



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Comments.doc"

AGENDA – THURSDAY, NOVEMBER 20TH

WORKING SESSION RESUMES

8:00 **FG48-03/04:** Testing, Inspection and Purging of Hydrogen Piping Systems
Review Public Comment, which will be submitted to reflect improvements originally intended yet inadvertently omitted at the modification-phase by ICC Staff.



"FG48 for Public
Comment.doc"

8:30 **PRESENTATION:** Status and Update of CGA Standards Activities
Roger Smith—Compressed Gas Association

9:00 **F157-03/04:** Organizational and Technical Improvements to Hydrogen Motor Fuel-Dispensing Facilities

- Public Comment?
- Venting enhancements, Maximum flow rates?
- Weather protection for dispensing equipment?

10:00 *BREAK!*

10:15 **F157-03/04:** continued...

11:45 **LUNCH!**

12:30 **PRESENTATION:** Gaseous Mixtures Produced by Hydrogen Generating Appliances
Mario Sandoval—Hydrogen Source, LLC.



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Source Comments.do



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1:00 **FG46-03/04:** Gaseous Mixtures Produced by Hydrogen Generating Appliances

1:45 *BREAK!*

2:00 **F181-03/04:** Metal Hydride Storage, Public Comment?

- Pulling together a strong case of technical support
- Regulating hydrides similar to battery systems in IFC 608 and 609

3:00 **NEW BUSINESS:** Real-world Applications of Refueling Scenarios (images/examples of current practice)

- Five quick questions from the regulator's vantage point.

4:00 **Adjournment**