



# ICC CODES - PUBLIC COMMENT FORM

FOR PUBLIC COMMENTS ON THE "2006 REPORT OF THE PUBLIC HEARINGS"

PLEASE SEE BACK OF FORM FOR PROCEDURES ON SUBMITTING PUBLIC COMMENTS. ALL SUBMITTALS MUST COMPLY WITH THESE PROCEDURES.

**CLOSING DATE: All Comments Must Be Received by January 24, 2007. The 2007 Final Action Hearings will be held May 21 – 26, 2007 in Rochester, New York**

1) Please type or print clearly: Public comments will be returned if they contain unreadable information.

Name:	John C. Dean				Date:	1/24/2007
Jurisdiction/Company:	National Association of State Fire Marshals (NASFM)					
Submitted on Behalf of:	National Association of State Fire Marshals (NASFM)					
Address:	1319 F Street, NW Suite 301					
City:	Washington	State:	D.C.	Zip +4:	20004	
Phone:	(202) 737-1226	Ext:		Fax:	(202) 393-1296	
e-mail:	jdean@firemarshals.org					

2) Copyright Release: In accordance with Council Policy #28 Code Development, all Code Change Proposals, Floor Modifications and Public Comments are required to include a copyright release. A copy of the copyright release form is included at the end of this form. Please follow the directions on the form. This form as well as an alternative release form can also be downloaded from the ICC website at [www.iccsafe.org](http://www.iccsafe.org). If you have previously executed the copyright release, please check the box below:

2006/2007 Cycle copyright release on file

3) Code Change Proposal Number:

Indicate the Code Change Proposal Number that is being addressed by this Public Comment:     F175-06/07    

4) Public Comment: The Final Action requested on this Code Change Proposal is: (Check Box)

Approved as Submitted (AS):
  Approved as Modified by this Public Comment (AMPC):
  Approved as Modified by the Code Committee as Published in the ROH (AM):
  Approved as Modified by Assembly Floor Action as Published in the ROH (AMF):
  Disapproved (D):

5) Proposed Modification (AMPC only):

Further modify proposal as follows:

**3204.3.1.3 Drainage.** The area surrounding stationary containers shall be provided with a means to prevent accidental discharge of fluids from endangering personnel, containers, equipment and adjacent structures or to enter enclosed spaces. The stationary container shall not be placed where spilled or discharged fluids will be retained around the container. Site preparation shall include provisions for retention of spilled LH2 within the limits of the refueling site property and for surface water drainage. Confinement of ~~liquid~~ LH2 shall not result in a condition of pooled LH2 and/or the liquefaction of air. Site preparation shall be designed to limit the area or volume where an ignitable concentration (LFL of 4%) of gaseous hydrogen may exist. ~~Diking~~, crushed stone, and other barriers may be used provided they meet the requirements of this section. Where land is available, and adjacent structures and property will not be adversely affected, it is preferable to divert the liquid some distance away from the tank to an evaporating bed.

Modification Continued (Attach additional sheets as necessary)

6) Reason (State the reason and justification to support the Public Comment. Include a bibliography of any substantiating material. It is the responsibility of the commenter to make the material available at the Final Action Hearing):

This is not a proposal to require diking. The proposed language captures the intent to prevent liquid hydrogen from entering areas not zoned/rated for flammable gas, and to control the ground-level vapor cloud, to the extent possible, to within areas designed to address a flammable mixture. There seems to be reasonable

agreement that the LH2 will vaporize quickly and the resulting thermal- and momentum-induced turbulent flow with air will allow it to warm and disperse to safe concentrations.

Concurrently, when the air mass near the hydrogen spill drops to a temperature of -317.8 degrees F, the air will start to liquefy. This point is 105.4 degrees above the boiling point of hydrogen (-423.2 degrees F), and therefore it is not necessary to have a pool of liquid hydrogen to get liquefaction of air; all that is needed is a lot of very cold hydrogen gas. Once the liquid air is formed, it will fractionally distill, enriching the oxygen content and increasing the potential for a rapid exothermic reaction. Thus, both liquefaction of air and potential pooling of hydrogen are problems that need to be considered.

There are advantages and disadvantages to retention of LH2. The disadvantage is that it may increase the resident time of a vapor cloud over the affected area. However, this is also considered a positive, as it reduces the total affected area. This may be particularly important if adjacent property is not properly zoned to address a hydrogen leak. The proposed language serves to minimize the affected area to the extent possible, while still preventing additional hazards from forming.<sup>i</sup>

---

<sup>i</sup> Proposed changes are based on findings from NASFM's Ad Hoc committee consisting of emergency responders, federal and state authorities, and industry experts all having experience with and/or code enforcement authority over fixed outdoor hydrogen storage systems.

Reason Continued (Attach additional sheets as necessary)

**PLEASE USE SEPARATE FORM FOR EACH PUBLIC COMMENT  
SUBMITTAL AS A DOCUMENT ATTACHED TO AN EMAIL IS PREFERRED  
SEE BACK OF FORM FOR DIRECTIONS ON WHERE TO SEND PUBLIC COMMENTS**

**PUBLIC COMMENTS SHOULD BE SENT TO THE FOLLOWING OFFICES VIA REGULAR MAIL OR EMAIL. AN EMAIL SUBMITTAL IS PREFERRED, INCLUDING AN ELECTRONIC VERSION IN MS WORD. THE ONLY FORMATTING THAT IS NEEDED IS BOLDING, STRIKEOUT OR UNDERLINING. PLEASE DO NOT PROVIDE ADDITIONAL FORMATTING SUCH AS TABS, COLUMNS, ETC. AS THIS WILL BE DONE BY ICC. ALL PUBLIC COMMENTS RECEIVED WILL RECEIVE AN ACKNOWLEDGEMENT. IF YOU DO NOT RECEIVE AN ACKNOWLEDGEMENT BY FEBRUARY 7, 2007, PLEASE CONTACT MANAGER OF CODES AT 888-ICC-SAFE, EXTENSION 4323 OR STAFF ADMINISTRATIVE ASSISTANT AT 4340.**

<b>Code</b>	<b>Send to:</b>
IBC	International Code Council
ELECT	Chicago District Office
IEBC	Attn: Diane Schoonover
IFC	4051 West Flossmoor Road
IFGC	Country Club Hills, IL 60478-5795
ICCP	Fax: 708/799-0320
IPC	<a href="mailto:publiccomments@iccsafe.org">publiccomments@iccsafe.org</a>
IPSDC	
IPMC	
IWUIC	
IZC	
IECC	International Code Council
IMC	Birmingham District Office
IRC	Attn: Annette Sundberg
	900 Montclair Road
	Birmingham, AL 35213-1206
	Fax: 205/592-7001
	<a href="mailto:publiccommentbhm@iccsafe.org">publiccommentbhm@iccsafe.org</a>

**Acronym ICC Code Name (Code change number prefix)**

IBC	International Building Code (E, FS, G, S)
ELECT	International Code Council Electrical Code Administrative Provisions (EL)
IECC	International Energy Conservation Code (EC)
IEBC	International Existing Building Code (EB)
IFC	International Fire Code (F)
IFGC	International Fuel Gas Code (FG)
IMC	International Mechanical Code (M)
ICCP	ICC Performance Code (PC)
IPC	International Plumbing Code (P)
IPMC	International Property Maintenance Code (PM)
IPSDC	International Private Sewage Disposal Code (PSD)
IRC	International Residential Code (RB, RE, RM, RP)
IWUIC	International Wildland-Urban Interface Code (WUIC)
IZC	International Zoning Code (Z)

The following procedures are excerpts from the CP#28 Code Development. The full procedures can be downloaded from the ICC website at [www.iccsafe.org](http://www.iccsafe.org).

**6.0 Public Comments**

**6.1 Intent:** The public comment process gives attendees at the Final Action Hearing an opportunity to consider specific objections to the results of the public hearing and more thoughtfully prepare for the discussion for Final Action Consideration. The public comment process expedites the Final Action Consideration at the Final Action Hearing by limiting the items discussed to the following:

- 6.1.1 Consideration of items for which a public comment has been submitted; and
- 6.1.2 Consideration of items which received a successful assembly action at the public hearing.

**6.2 Deadline:** The deadline for receipt of a public comment to the results of the public hearing shall be announced at the public hearing but shall not be less than 30 days from the availability of the report of the results of the public hearing (see Section 5.8).

**6.3 Withdrawal of Public Comment:** A public comment may be withdrawn by the public commenter at anytime prior to Final Action Consideration of that comment. A withdrawn public comment shall not be subject to Final Action Consideration.

**6.4 Form and Content of Public Comments:** Any interested person, persons, group may submit a public comment to the results of the public hearing which will be considered when in conformance to these requirements. Each public comment to a code change proposal shall be submitted separately and shall be complete in itself. Each public comment shall contain the following information:

**6.4.1 Public comment:** Each public comment shall include the name, title, mailing address and telephone number of the public commenter. If group, organization, or committee submits a public comment, an individual with prime responsibility shall be indicated. If a public comment is submitted on behalf a client, group, organization or committee, the name and mailing address of the client, group, organization or committee shall be indicated. The scope of the public comment shall be consistent with the scope of the original code change proposal or committee action. Public comments which are determined as not within the scope of the code change proposal or committee action shall be identified as such. The public commenter shall be notified that the public comment is considered an incomplete public comment in accordance with Section 6.5.1 and the public comment shall be held until the deficiencies are corrected. A copyright release in accordance with Section 3.3.4.5 shall be provided with the public comment.

**6.4.2 Code Reference:** Each public comment shall include the code change proposal number and the results of the public hearing on the code change proposal to which the public comment is directed.

**6.4.3 Desired Final Action:** The public comment shall indicate the desired final action as one of the following:

1. Approve the code change proposal as submitted (AS), or
2. Approve the code change proposal as modified (AM) by one or more specific modifications published in the Results of the Public Hearing or published in a public comment, or
3. Disapprove the code change proposal (D)

**6.4.4 Supporting Information:** The public comment shall include in a statement containing a reason and justification for the desired final action on the code change proposal. Reasons and justification which are reviewed in accordance with Section 6.4 and determined as not germane to the technical issues addressed in the code change proposal or committee action shall be identified as such. The public commenter shall be notified that the public comment is considered an incomplete public comment in accordance with Section 6.5.1 and the public comment shall be held until the deficiencies are corrected. The public commenter shall have the right to appeal this action in accordance with the policy of the ICC Board. A bibliography of any substantiating material submitted with a public comment shall be published with the public comment and the substantiating material shall be made available at the Final Action Hearing.

**6.5 Review:** The Secretariat shall be responsible for reviewing all submitted public comments from an editorial and technical viewpoint similar to the review of code change proposals (See Section 4.2).

**6.5.1 Incomplete Public Comment:** When a public comment is submitted with incorrect format, without the required information or judged as not in compliance with these Rules of Procedure, the public comment shall not be processed. The Secretariat shall notify the public commenter of the specific deficiencies and the public comment shall be held until the deficiencies are corrected, or the public comment shall be returned to the public commenter with instructions to correct the deficiencies with a final date set for receipt of the corrected public comment.

**6.5.2 Duplications:** On receipt of duplicate or parallel public comments, the Secretariat may consolidate such public comments for Final Action Consideration. Each public commenter shall be notified of this action when it occurs.

**6.5.3 Deadline:** Public comments received by the Secretariat after the deadline set for receipt shall not be published and shall not be considered as part of the Final Action Consideration.

**6.6 Publication:** The list of public hearing results on code change proposals that have not been public commented and the code change proposals with public commented public hearing results shall constitute the final action agenda. The final action agenda shall be published and made available at least 30 days prior to Final Action consideration.