



# PUBLIC CODE CHANGE PROPOSAL FORM FOR PUBLIC PROPOSALS IN THE INTERNATIONAL CODES

## 2007/2008 CODE DEVELOPMENT CYCLE

**CLOSING DATE: All Proposals Must Be Received by August 20, 2007**

The 2007/2008 Code Development Hearings are tentatively scheduled for  
February 18 – March 2, 2008, location TBD.

1) **Name:** Ronald Majette **Date:** August 19, 2007  
**Jurisdiction/Company:** U.S. Department of Energy  
**Submitted on Behalf of:** U.S. Department of Energy  
**Address:** 1000 Independence Avenue, EE-2J, IJ-018

**City:** Washington D.C. **State:** DC **Zip Code:** 20585  
**Phone:** 202-586-7935 **Ext.:** **Fax:** 202-586-4617 **E-mail address:** [Ronald.Majette@ee.doe.gov](mailto:Ronald.Majette@ee.doe.gov)

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:

**X 2007/2008 Cycle copyright release on file**

3) Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: IRC  
 If you have also submitted a separate coordination change to another I-Code, please indicate the code: \_\_\_\_\_  
 (See section below for list of names and acronyms for the International Codes).

4) **Be sure to format your proposal and include all information as indicated on Page 2 of this form.**

5) Proposals should be sent to the following offices via regular mail or email. An e-mail submittal is preferred, including an electronic version, in either Wordperfect or Word. The only formatting that is needed is **BOLDING, STRIKEOUT AND UNDERLINING**. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by ICC. **REMOVE TRACKING CHANGES, AUTOMATIC NUMBERING, OR ANY OTHER ADVANCED FORMATTING TOOLS THAT ARE PROVIDED BY WORD, FROM FILES CONTAINING YOUR CODE CHANGE PROPOSAL THAT YOU SEND TO ICC.**

Please use a separate form for each proposal submitted. Note: All code changes received will receive an acknowledgment.

Please check here if separate graphic file provided.

Graphic materials (Graphs, maps, drawings, charts, photographs, etc.) must be submitted as separate electronic files in .CDR, .IA, .TIF or .JPG format (300 DPI Minimum resolution; 600 DPI or more preferred) even though they may also be embedded in your Word or Wordperfect submittal.

**Code**

- IBC - International Building Code
- IEBC - International Existing Building Code
- IFC - International Fire Code
- IFGC - International Fuel Gas Code
- IPC - International Plumbing Code
- IPSDC - International Private Sewage Disposal Code
- IPMC - International Property Maintenance Code
- IWUIC - International Wildland-Urban Interface Code
- IZC - International Zoning Code
- ELECT - International Code Council Electrical Code– Administrative Provisions

**Send to:**

International Code Council  
 Chicago District Office  
 Attn: Diane Schoonover  
 4051 West Flossmoor Road  
 Country Club Hills, IL 60478-5795  
 Fax: 708/799-0320  
[codechanges@iccsafe.org](mailto:codechanges@iccsafe.org)

- IECC - International Energy Conservation Code
- ICC PC - ICC Performance Code
- IMC - International Mechanical Code
- IRC - International Residential Code

International Code Council  
 Birmingham District Office  
 Attn: Annette Sundberg  
 900 Montclair Road  
 Birmingham, AL 35213-1206  
 Fax: 205/592-7001  
[codechangesbhm@iccsafe.org](mailto:codechangesbhm@iccsafe.org)

## CODE CHANGE PROPOSAL

Please provide all of the following items in your code change proposal. Your proposal may be entered on the following form, or you may attach a separate file. However, please read the instructions provided for each part of the code change proposal. The sections identified in parentheses are the applicable sections from CP #28 Code Development. The full procedures can be downloaded from [www.iccsafe.org](http://www.iccsafe.org).

**Code Sections/Tables/Figures Proposed for Revision (3.3.2):** Table N1102.1

**Note:** If the proposal is for a new section, indicate (new).

**Name/Company/Representing (3.3.1):** Ronald Majette / U.S. Department of Energy

**Note:** You must indicate your name and the full name of who you are representing. Do not use acronyms.

**Proposal:** NOTE: PLEASE READ ITEM 5) of the first page of this form for formatting instructions.

Revise as follows:

**Table N1102.1 Insulation and Fenestration Requirements by Component<sup>(a)</sup>**

Climate Zone	Fenestration U-Factor	Skylight <sup>(b)</sup> U-Factor	Glazed Fenestration SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement <sup>(c)</sup> Wall R-Value	Slab <sup>(d)</sup> R-Value & Depth	Crawl Space <sup>(e)</sup> Wall R-Value
1	1.20	1.60	<del>0.40</del> 0.37	30	13	3	13	0	0	0
2	0.75	1.05	<del>0.40</del> 0.37	30	13	4	13	0	0	0
3	0.65	0.90	0.40 <sup>(e)</sup>	30	13	5	19	0	0	5/13
4 except Marine	0.40	0.60	NR	38	13	5	19	10 / 13	10, 2 ft	10 / 13
5 and Marine 4	0.35	0.60	NR	38	19 or 13+5 <sup>(g)</sup>	13	30 <sup>(f)</sup>	10 / 13	10, 2 ft	10 / 13
6	0.35	0.60	NR	49	19 or 13+5 <sup>(g)</sup>	15	30 <sup>(f)</sup>	10 / 13	10, 4 ft	10 / 13
7 and 8	0.35	0.60	NR	49	21	19	30 <sup>(f)</sup>	10 / 13	10, 4 ft	10 / 13

Remainder of table unchanged.

**Supporting Information (3.3.4 & 3.4):**

The purpose of these proposed changes to the SHGC requirements for hot climates (zones 1 & 2) in the IRC is to match the corresponding requirements in the IECC. These are also equal to those contained in Table 5.2 of ANSI/ASHRAE Standard 90.2-2004 *Energy-Efficient Design of Low-Rise Residential Buildings*.

The 0.40 SHGC requirement for residential buildings in the I-Codes was established in 1997 when SHGC ratings by the National Fenestration Rating Council (NFRC) was still in its infancy and few products were rated and therefore is not necessarily the most appropriate value. Today, these SHGC values are widely available and often the norm.

SHGC ratings for all horizontal slider windows from the on-line NFRC database were reviewed in July 2005. There were 50,367 products, of which 35,114 were rated for SHGC. The most common product used to meet the 0.40 SHGC requirement are low-E windows. Low-E technologies have experienced dramatic growth in the last decade and are now included in over 60% percent of the residential market (Door & Window Maker Magazine, April 2005). There are 13,672 horizontal slider double-glazed low-E windows that are rated for SHGC and 93% of these are 0.37 SHGC or below. Lower SHGC levels can be easily met by windows with any type of frames. For example, 91%, 94%, and 97% of rated low-E horizontal slider windows with aluminum, vinyl, and wood frames now easily meet (or are lower than) this proposed 0.37 SHGC requirement.

**Referenced Standards (3.4 & 3.6):**

**Cost Impact (3.3.4.6):**

There will most likely be no cost impact from this code proposal since these technologies are now the norm and widely available in all

climate zones.