



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
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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. 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: IECC
 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

- 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

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.

Code Sections/Tables/Figures Proposed for Revision (3.3.2): Section 403, 404.2, Table 404.5.2(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.

401.2 Compliance. Projects shall comply with Sections 401, 402.4, 402.5, 402.6 and ~~403~~ 403.1, 403.2.2, 403.2.3, and 403.3 through 403.6 (referred to as the mandatory provisions) and either:

1. Sections 402.1 through 402.3 and 403.2.1 (prescriptive); or
2. Section 404 (performance).

SECTION 403 SYSTEMS (Mandatory)

403.1 Controls. (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system.

403.1.1 Heat pump supplementary heat. (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

403.2 Ducts.

403.2.1 Insulation. Supply ducts in attics shall be insulated to a minimum of R-8. All other ducts shall be insulated to a minimum of R-6.

Exception: Ducts or portions thereof located completely inside the building thermal envelope.

403.2.2 Sealing. (Mandatory). All ducts, air handlers, filter boxes, and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.3.1 of the *International Residential Code*.

403.2.3 Building cavities. (Mandatory). Building framing cavities shall not be used as supply ducts.

403.3 Mechanical system piping insulation. (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-2.

403.4 Circulating hot water systems. (Mandatory). All circulating service hot water piping shall be insulated to at least R-2. Circulating hotwater systems shall include an automatic or readily accessible manual switch that can turn off the hot water circulating pump when the system is not in use.

403.5 Mechanical ventilation. (Mandatory). Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

403.6 Equipment sizing. (Mandatory). Heating and cooling equipment shall be sized in accordance with Section M1401.3 of the *International Residential Code*.

404.2 Mandatory Requirements. Compliance with this section requires that the mandatory provisions identified in Section 401.2 ~~criteria of Section 401, 402.4, 402.5, 402.6, and 403~~ be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-4.

Modify Table 404.5.2(1) as follows:

Thermal distribution systems	A thermal distribution system efficiency (DSE) of 0.80 shall be applied to both the heating and cooling system efficiencies. <u>Duct insulation: From Section 403.2.1.</u>	Same as standard reference design, except as specified by Table 404.5.2(2).
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Remainder of Table 404.5.2(1) unchanged.

Supporting Information (3.3.4 & 3.4):

The purpose of this code change is to allow duct insulation to be reduced to R-4 in the simulated performance path. The current code requires either R-6 or R-8 duct insulation with no possibility for trade-offs. R-4 is a more reasonable mandatory minimum value.

Referenced Standards (3.4 & 3.6):

Cost Impact (3.3.4.6):

The code change proposal will not increase the cost of construction.