

Industrialized Buildings Commission

◆ An Interstate Compact ◆

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MINUTES

Rules Development Committee Wednesday, July 15, 2009 Herndon, Virginia

Chairman Rothman convened a meeting of the Rules Development Committee on Wednesday, July 15, 2009, at 9:15 a.m. at the Sheraton Herndon Dulles Airport in Herndon, Virginia and adjourned the meeting due to a lack of quorum.

At 10:00 a.m., a quorum was present and Chairman Rothman called the meeting to order. Attendance was taken as noted below:

Members Present: Barbara Bieganski, Vanguard Modular Building Systems
Ujval K. Dave, State of Maryland
Donald Engle, NRB USA, Inc.
Jim Rothman, PFS Corporation
Clinton Wallace, Commonwealth of Virginia

Others Present: Michael Baier, State of New Jersey
Debbie Becker, NCSBCS
Bob Blatchford, Dynamic Homes
Warren J. Ducharme, State of Rhode Island
N. Kevin Egilmez, NCSBCS
Bob Gorleski, PFS Corporation
Tom Hardiman, Modular Building Institute
Eric Leatherby, Commonwealth of Virginia
Charles Osterday, NTA
Bob Tanger, T. R. Arnold & Associates
Randy Vogt, State of Minnesota

Approval of Minutes

On a motion by Ujval Dave, seconded by Barbara Bieganski, the Committee approved the minutes of the July 19, 2006, meeting as submitted.

Correspondence

The secretariat noted that a list of correspondence for fiscal year 2009 was available.

New Business

Chairman Rothman discussed the 180 calendar-day time period specified in Part III, Section 2 of the UAP to allow manufacturers to incorporate code changes into their existing building systems documents. Recently, a member state adopted a new code and required industrialized buildings to comply on the date it became effective while granting manufacturers 180 days to update the documents. Other member states allow the grace period to apply to both. The Chairman requested if the Commission could issue a written clarification.

The Committee discussed the three RDC vacancies: two representing residential industry and one commercial industry. Tom Hardiman indicated that MBI may be able to nominate someone from the commercial industry. It was suggested that manufactures that build both HUD-coded and modular units be considered as potential candidates.

The Committee was brought up to date on the status of the application of building systems documents (Attachment A). The Commission decided to issue two separate notices – one for as-built documents and another for clarifying the limits of a building system. Kevin Egilmez reported that the as-built portion has been implemented and that the Commission decided to postpone issuing building system limits until the RDC had an opportunity to discuss the latest draft.

The Committee reviewed a proposal to recognize ICC certification renewals as an alternate to IBC requirements (Attachment B). UAP requires two CEUs per certificate which must include an IBC training seminar whereas an ICC certificate can be renewed with 1.5 CEUs per certificate. ICC also allows a certificate to be renewed after being inactive for up to six years whereas an IBC certificate cannot be renewed if it has been inactive for more than a year.

Bob Tanger indicated that inspectors with active ICC certificates, such as retired building inspectors, are unwilling to retake ICC examinations to satisfy the Commission's three-year time limit. Although they could request a waiver, the letter-ballot process could take up to 60 days or more. As a result, designated agencies are having difficulty recruiting inspectors especially in remote areas. RDC recommended that the Commission consider granting automatic waivers to first time applicants with active ICC certifications. The motion passed.

The new ICC residential plans examiner examination (attachment C) was discussed. Currently, applicants for Residential (Level I) Plans Examiner certification must pass two-hour tests in each of the four disciplines: building, mechanical, electrical, and plumbing. The new ICC examination is a single two-hour test that covers all four disciplines. A motion to accept the ICC residential plans examiner examination as an alternate passed with one abstaining and one against.

The Committee discussed certification label fee which was last increased in 2005 by \$ 7. Kevin Egilmez reported that 10,600 modules – average annual production between 1998 and 2008 (attachment D) – would not generate sufficient label revenues to meet typical program expenses. In August 1997, the label fee was increased by \$ 5 for out-of-state manufacturers to reflect the higher cost of out-of-state audits. Since the Commission did not have accurate figures at the time, the Committee suggested that a new study be done to determine the program cost per

module for in-state and out-of-state manufacturers and label fees be increased accordingly.

The regulations require manufacturers to provide “roof and floor live loads” on data plates. Because the description is ambiguous, manufacturers often provide different figures, such as roof live load, roof design load or ground snow load which creates confusion. The Committee recommended that the Commission issue a bulletin stating that data plates indicate the ground snow load followed by the letters “GSL” or the live load, whichever is greater.

Kevin Egilmez reported that the Commission needed a formal policy regarding used shipping containers being converted into buildings. The Committee discussed the key points of the proposed resolution (Attachment E). Shipping containers are manufactured throughout the world, using materials and construction methods that are unverified or unknown then subjected to loads and elements outside the scope of building codes which makes them unsuitable as components of industrialized buildings under the Commission’s program. The Committee recommended that a resolution be drafted and presented to the Commission.

Recommendations to the Commission

Chairman Rothman reviewed the following motions as RDC recommendations to the Commission:

1. Accept ICC residential plans examiner examination as an alternate to the Residential (Level I) Plans examiner certification tests.
2. Issue a bulletin regarding application of building systems.
3. Issue a bulletin regarding automatic waivers for active ICC certifications.
4. Issue a bulletin requiring data plates to specify ground snow loads.
5. Issue a resolution regarding used shipping containers.

Secretariat Assignments

1. Request a clarification regarding the 180-day grace period for updating existing building systems documents to newly adopted code requirements.
2. Provide shipment figures to RDC to determine label fees for out-of-state manufacturers.

Date and Location of Next Meeting

If necessary, the next RDC meeting would be scheduled for July 21, 2010– the third Wednesday in July. Members will be contacted ahead of time to determine if a meeting is necessary.

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The motion to adjourn, made by Jim Rothman and seconded by Clinton Wallace, was approved and the meeting adjourned at 12:15 p.m.

Respectfully submitted,

N. Kevin Egilmez
Secretary

Attachments

APPLICATION OF BUILDING SYSTEMS DOCUMENTS

1. Manufacturers with approved building systems must still develop specific, “as-built” floor plans and other documents required by the Model Rules and Regulations, Part V, Section 1(B) “Required construction details”, as applicable.
2. Manufacturers may not cite or reference a code or code section as a method to demonstrate compliance. Such statements include “light and ventilation per code”, “branch circuit wiring and wire sizes must comply with NEC”, “smoke detectors must be located and installed per state and local codes.”
3. The process for selecting a header, beam, column or other structural member should be similar to and no more complicated than selecting a similar member from a code table.
4. Tables for structural members must clearly indicate the limits such as maximum loads (live, dead, wind, etc.), building configuration (module width, eave length, roof pitch, etc.) or any other parameter assumed in the calculations that, if exceeded, will adversely affect the capacity of the member.

Inspection agencies shall be responsible for monitoring manufacturers’ ability to develop specific plans and related designs from building system documents.

Manufacturers that repeatedly exceed the parameters of a building system may have their building systems suspended or revoked. During the term of suspension or revocation of the building system, manufacturers will be required to submit all documents to their evaluation agency for review and approval.



People Helping People Build a Safer World™

ICC CERTIFICATION

Renewal Bulletin

Why Renewing Your Certification is Critical!

You are among a select group of individuals nationwide who have attained high credibility and recognition of distinction through the Certification Program. Renewing your certificates will allow you to retain this professional stature.

Certification Renewal

Certifications are valid for three years. Certificates must be renewed on or before the expiration date (when they become inactive) to be current. A few months prior to the time when your renewal is due, you will be sent a notice along with a renewal application. If for any reason you do not receive this notice, you may obtain an application from the ICC website.

Accruing CEUs

During the three-year period prior to the renewal application date, you must accrue the amount of CEUs required for your certificate. Renewal is achieved by participating in continuing education and professional development activities. For example, a seminar you attended to earn CEUs must have been within three years prior to the renewal date. You must keep documents and records of each activity during the three-year renewal period.

RENEW TODAY!

1-888-ICC-SAFE (422-7233)

www.iccsafe.org/certification

Renewal Fees for All Certificates (including Legacy certificates)

Member	
One certification	\$50
Two certifications (Renewed on the same date)	\$60
Three or more certifications (Renewed on the same date)	\$70
Reinstatement	\$50

Nonmember	
One certification	\$60
Two certifications (Renewed on the same date)	\$70
Three or more certifications (Renewed on the same date)	\$80
Reinstatement	\$50

Continuing Education and Professional Development Activities for Certification Renewal

Option	Activity	CEUs
1	Participation as a student in a seminar or technical session delivered by ICC, ICC chapter, related professional association, state code enforcement licensing agency, standards writing organization, or any related federally sponsored program	0.1 for each clock hour of attendance
2	Successful completion of a self-study course offered by ICC, state code enforcement licensing agency, or accredited academic institution*	1.0 maximum per course
3	Successful completion of an ICC Online Renewal Update Course	0.5 for each course
4	Attendance at ICC code development hearings; can acquire up to 10 clock hours maximum per year, not to exceed 3.0 CEUs in a three-year period	0.1 for each clock hour
5	Obtaining a new ICC certification by taking and passing the proctored exams. Special Inspectors may receive credit for passing certifications that are sponsored by ACI, ASNT, AWS, or NICET within the previous three years; other inspectors may receive credit for holding a current LEED certification	0.5 per certification
6	Instruction of a seminar or technical session delivered for ICC or ICC chapter, related professional association, state code enforcement licensing agency, standards writing organization, or any related federally sponsored program	0.1 for each clock hour of instruction delivered
7	Instruction of a course for an accredited academic institution*; courses can be counted twice per three-year period, with no limit on the number of different courses	1.0 for each academic credit hour
8	Committee or board service to ICC or ICC chapter for one full year, not to exceed 1.0 CEUs annually	0.5 per committee
9	In-house training during employment as a code official, plans examiner, permit technician, or inspector	1.0 per three-year period
10	Participation as a student in an accredited academic institution*, not to exceed 3.0 CEUs in a three-year period	1.0 for each academic credit hour
11	Publication of a paper, book, or technical article for an academic institution, professional trade journal, or ICC journal, not to exceed 3.0 CEUs in a three-year period	1.0 per publication type
12	Completion of evaluation as an IAS Building Department Evaluator	1.0 per three-year period

*An accredited institution is a high school, community college, junior college, university, technical or vocational school, or any private educational agency accredited by the International Association of Continuing Education and Training (IACET).

Note: Successfully passing the examination required of new applicants is an acceptable alternative to participating in continuing education activities.

CEUs Required per Certification Category

The following list shows the number of CEUs required for renewal of individual certifications.

Residential Inspection Categories

Residential Building Inspector	1.5
Residential Electrical Inspector	1.5
Residential Plumbing Inspector	1.5
Residential Mechanical Inspector	1.5
Residential Combination Inspector	1.5

Commercial Inspection Categories

Commercial Building Inspector	1.5
Commercial Electrical Inspector	1.5
Commercial Plumbing Inspector	1.5
Commercial Mechanical Inspector	1.5
Commercial Combination Inspector	1.5

Plans Examiner Categories

Building Plans Examiner	1.5
Electrical Plans Examiner	1.5
Plumbing Plans Examiner	1.5
Mechanical Plans Examiner	1.5
Residential Plans Examiner	1.5
Combination Plans Examiner	1.5

Energy Inspection/Plans Examiner Categories

Residential Energy Inspector/Plans Examiner	1.5
Commercial Energy Plans Examiner	1.5
Commercial Energy Inspector	1.5

Fire Code Categories

Fire Inspector I	1.5
Fire Inspector II	1.5
Fire Plans Examiner	1.5
Certified Fire Marshal	4.5

Note: Holding certification or renewing certification in the “General” Inspection category does not qualify you to automatically receive certification in the “Residential” and/or “Commercial” Inspection categories.

Special Inspector Categories

Reinforced Concrete Special Inspector*	2.5
Reinforced Concrete Special Inspector Associate*	for one
Prestressed Concrete Special Inspector	or more
Structural Steel and Bolting Special Inspector	certificates
Structural Welding Special Inspector	
Spray-applied Fireproofing Special Inspector	
Structural Masonry Special Inspector	
Soils Special Inspector	
Master of Special Inspection	

*ACI Field Technician Certification must be current.

Code Enforcement Categories

Permit Technician	1.5
Accessibility Inspector/Plans Examiner	1.5
Zoning Inspector	1.5
Property Maintenance and Housing Inspector	1.5
Coastal and Floodplain Construction Inspector	1.5
Disaster Response Inspector	1.5
Green Building—Residential Examiner	1.5

General Inspection Categories

Building Inspector	1.5
Electrical Inspector	1.5
Plumbing Inspector	1.5
Mechanical Inspector	1.5
Combination Inspector (Bldg, Elec, Plbg, Mech)	4.5

Code Official Categories

Certified Building Official (CBO)	4.5
Certified Building Code Official (CBCO)	4.5
Certified Electrical Code Official (CECO)	4.5
Certified Plumbing Code Official (CPCO)	4.5
Certified Mechanical Code Official (CMCO)	4.5
Certified Housing Code Official (CHCO)	4.5
Certified Fire Code Official (CFCO)	4.5
Master Code Professional (MCP)	4.5

CEUs Required for Multiple Certifications

1 certificate	1.5 CEUs	1 or more Special Inspector certificates	2.5 CEUs
2 certificates	3.0 CEUs	1 or more Code Official Categories (Combination Inspector, Combination Inspector—Uniform Codes, Certified Fire Marshal)	4.5 CEUs
3 or more certificates	4.5 CEUs		

Renewal of ICC Legacy Certification Categories

Each MCO published a family of codes: BOCA National, SBCCI Standard, and ICBO Uniform codes, which are now being referred to as “Legacy Codes.” Certifications under a Legacy Code are referred to as “ICC Legacy Certifications.” ICC Legacy Certifications may be renewed in addition to the ICC National Certifications in the same manner as the national certification categories. The following list shows the number of CEUs required for renewal of individual certifications.

Code Enforcement Categories

Plumbing Inspector UPC	1.5
Mechanical Inspector UMC	1.5
Combination Dwelling Inspector	1.5
Combination Inspector—Uniform Codes	4.5

Special Inspector Categories

Structural Steel and Welding Special Inspector	2.5 CEUs
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Please Note: The following Legacy Categories listed below are being discontinued. If you are renewing any of these categories, please check the National Certification equivalent when submitting your renewal application. If you have already submitted your renewal application, we will automatically update your certifications to the National equivalent.

Legacy Categories Being Discontinued

Building Inspector UBC
Building Plans Examiner UBC
Company Officer Fire Code Inspector UFC
Uniform Fire Code Inspector UFC
Structural Masonry Special Inspector UBC

National Equivalent

Building Inspector
Building Plans Examiner
Fire Inspector I
Fire Inspector II
Structural Masonry Special Inspector

Frequently Asked Questions About Certification Renewal



What if I have multiple certifications with different expiration dates?

You have the option of having one expiration date for all of your certifications. However, when you combine dates, you may be required to waive the full three year period of active status for some of your certificates.



Do I need to renew my ICC certification?

Yes. After three years, current ICC certification expires and becomes “inactive” if it is not renewed.



What do I do if my certification is inactive (not renewed by the expiration date)?

You can renew inactive certifications in the same manner as certificates that are active as long as you have accrued current CEUs. There is an additional reinstatement fee of \$50 per application to renew certificates that are inactive (not renewed by the expiration date). Effective February 1, 2009, after six (6) years of inactive status from the expiration date, certifications will expire and shall require successful completion of the current certification examination.



What if I do not receive a renewal application in the mail?

Renewal of certification is the responsibility of the certified individual, regardless of whether or not a notice is received. Attempts are made to notify certificate holders at their last known address prior to the expiration date. If you do not receive a renewal notice, please contact the certification department to request a notice. At that time your address will be verified.



How do I accrue CEUs?

A CEU is a Continuing Education Unit. Each 10 clock hours of continuing education equals 1 CEU. For example, a typical one-day seminar has 6 hours of instruction or 0.6 CEUs. Credit is awarded for a wide variety of activities.



What are considered acceptable continuing education and professional development activities?

Training, education or other endeavors wherein the objective includes achieving relevant professional knowledge, skills and abilities beyond those required for initial certification.



Does ICC verify the continuing education submitted for renewal?

All information is subject to an audit. Audits are conducted randomly. This is a voluntary professional credential in which you are responsible for deciding what professional development is appropriate for your needs. When you submit your certification renewal form, you are signing an affidavit confirming that all the information is accurate and true. You must retain the documentation for three years from the date the renewal is requested. It must be submitted upon an audit request.



How do I notify the Certification department about a change of address?

All address changes should be mailed to the Certification department. It is important that you list your old address, new address, any updated phone numbers and your certification number(s).

RENEW TODAY!
1-888-ICC-SAFE (422-7233)
www.iccsafe.org/certification

International Code Council

Attn: Certification Renewals
5360 Workman Mill Road
Whittier, California 90601
1-888-ICC-SAFE (422-7233)

2009 Certification Examinations

Content outlines are subject to change. Please visit www.iccsafe.org/certification for the most updated information.

Residential Inspector Examinations

B1 Residential Building Inspector

50 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	Reference
Code Administration	4%	2006 <i>International Residential Code</i> ®
Building Planning	8%	
Footings and Foundations	16%	
Floor Construction	14%	
Wall Construction and Coverings	27%	
Roof/Ceiling Construction and Penetrations	14%	
Public Safety	17%	
Total	100%	

E1 Residential Electrical Inspector

60 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	References
General Requirements	10%	2006 <i>International Residential Code</i> ®
Services	17%	2005 <i>National Electrical Code</i> (optional secondary reference)
Branch Circuit and Feeder Requirements	28%	
Wiring Methods and Power and Lighting Distribution	21%	
Devices, Lighting Fixtures, and Appliances	19%	
Swimming Pools and Similar Installations	5%	
Total	100%	

M1 Residential Mechanical Inspector

60 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	Reference
General Administration	7%	2006 <i>International Residential Code</i> ®
Heating and Cooling Equipment and Water Heaters	29%	
Exhaust Systems	6%	
Duct Systems	8%	
Combustion Air	19%	
Chimneys and Vents	20%	
Fuel Supply Systems	11%	
Total	100%	

Sample examination questions are available on the Code Council website: To get an idea of the style and format of questions on the actual examinations, to go www.iccsafe.org/certification/inspector, click on "2009 examinations, outlines, and sample questions," and scroll down to the category of your choice. Click on that category for detailed information and sample questions.

Residential Inspector Examinations (continued)

P1 Residential Plumbing Inspector

60 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	Reference
General Requirements	14%	2006 <i>International Residential Code</i> ®
Fixtures	8%	
Water Heaters	12%	
Water Supply and Distribution	21%	
Sanitary Drainage	23%	
Vents	22%	
Total	100%	

Commercial Inspector Examinations

B2 Commercial Building Inspector

80 multiple-choice questions — Open book—3-1/2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	References
General Administration	6%	2006 <i>International Building Code</i> ®
Building Planning	21%	ACI 318-05 <i>Building Code Requirements for Structural Concrete and Commentary</i> OR
Footings and Foundations	8%	
Floor Construction	7%	2006 <i>ICC Concrete Manual</i> ®
Wall Construction and Coverings	21%	
Roof/Ceiling Construction	6%	
Public Safety and Special Construction	31%	
Total	100%	

E2 Commercial Electrical Inspector

80 multiple-choice questions — Open book—3-1/2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	Reference
General Requirements	10%	2008 <i>National Electrical Code</i>
Services	17%	
Branch Circuit and Feeder Requirements	19%	
Wiring Methods and Distribution Systems	19%	
General Use Equipment	12%	
Special Occupancies	9%	
Special Equipment	7%	
Special Systems	7%	
Total	100%	

General Plans Examiner Examinations (continued)

R3 Residential Plans Examiner

60 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	Reference
Administrative	5%	2006 <i>International Residential Code</i> ®
Site	10%	
Architectural and Life Safety	25%	
Structural	25%	
Energy Efficiency	5%	
Mechanical	9%	
Plumbing	10%	
Electrical	11%	
Total	100%	

Code Enforcement Examinations

14 Permit Technician

60 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	References
General Administration	39%	2006 <i>International Building Code</i> ®, chapters 1-3, 6, 12, and 34
Legal Aspects	22%	
Plans and Documents	25%	2006 <i>International Zoning Code</i> ®
Zoning and Site Development	14%	2002 <i>Legal Aspects of Code Administration</i>
Total	100%	1999 <i>Basic Code Enforcement</i> (8th printing or later)

75 Zoning Inspector

50 multiple-choice questions — Open book—2-hour time limit

For expanded outline, go to www.iccsafe.org/certification/inspector

Content Area	% of Total	References
Legal Aspects of Zoning Inspection	28%	2006 <i>International Zoning Code</i> ®
Administrative Aspects of Zoning Inspection	14%	
Plan Zoning	16%	2002 <i>Legal Aspects of Code Administration</i>
Development Regulations	22%	
Sign Regulations	20%	
Total	100%	

Sample examination questions are available on the Code Council website: To get an idea of the style and format of questions on the actual examinations, to go www.iccsafe.org/certification/inspector, click on "2009 examinations, outlines, and sample questions," and scroll down to the category of your choice. Click on that category for detailed information and sample questions.

Production 1998-2008 (in modules)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	AVERAGE
Jan.	666	456	881	983	823	885	910	973	825	847	483	794
Feb.	668	514	998	990	800	610	1048	1043	884	715	529	800
Mar.	833	869	996	1188	786	770	1093	946	997	774	481	885
Apr.	882	837	946	1171	909	878	1123	941	858	809	621	907
May	638	898	1230	1071	897	1050	1093	1145	1012	884	615	958
Jun.	891	949	1145	1126	889	942	1346	1050	1142	828	529	985
Jul.	856	819	1081	1123	887	1073	1101	966	787	727	577	909
Aug.	790	947	1254	1126	1005	907	1265	1254	1079	887	627	1013
Sep.	800	866	912	841	814	818	1209	1089	885	707	528	861
Oct.	694	834	1196	879	999	1257	1132	1126	864	778	709	952
Nov.	614	912	956	739	829	871	1029	900	767	763	503	808
Dec.	519	779	748	876	723	968	897	725	735	490	299	705
	8851	9680	12343	12113	10361	11029	13246	12158	10835	9209	6501	10,575

USE OF RECYCLED SHIPPING CONTAINERS IN INDUSTRIALIZED BUILDINGS

Key points for a proposed resolution:

1. Shipping containers are manufactured at various locations throughout the world using construction materials, assembly methods and controls that cannot always be easily established.
2. Shipping containers are manufactured in such a manner that concealed parts or processes of manufacture cannot be inspected without disassembly, damage or destruction.
3. Prior to being used as components of industrialized buildings, shipping containers are used to store and transport various cargos and exposed to elements and stresses that are not within the scope of a building code.
4. Provisions of the *Uniform Administrative Procedures* cannot assure participating states of the substantial compliance of industrialized/modular buildings incorporating used shipping containers with applicable construction standards.