

**ICC Reference Standards Committee
Minutes
Telephone Conference Call
6 August 2010**

1.0 – Introductions. The meeting of 6 October 2010 was called to order at 1:10 PM EST. A quorum was not present.

1.1 – Attendance.

Jonathan Humble (Chair)
Jody Nolan (Vice-Chair)
Anthony Claffey
Michael Gardner
Steve Mawn
Matt Mulvey
Julie Ruth
Steve Skalko

David Bowman – ICC Staff
Ed Wirtschoreck – ICC Staff

1.2 - Anti-trust notification.

Chair advised that this committee is subject to the US anti-trust regulations.

2.0 - Activities

2.1 - Report on IgCC results. Chairman reported on IgCC activity.

2.2 - 2010 Group B Final Action Hearings. Attendees reviewed the following list of known standards submissions.

2.3 - Chairs abstention of review for CRRC-1-Standard. Chairman asked that other members of the ICC Reference Standards Committee present the ICC REF opinion in lieu of the chairman presenting due to a conflict of interest. Ms. Ruth and Mr. Skalko volunteered to present the ICC Reference Standards Committee opinion.

3.0 - Old Business.

3.1 - Preparation for 2012-2015 code cycle. Mr. Bowman described the tentative code development schedule for the next code development cycle. See attached PDF file.

4.0 - New Business

4.1 - IgCC for 2011. Mr. Bowman provided information on the progress of the IgCC.

November 2011	IgCC Version 2.0	
3 January 2011	Code Proposals Due	
25 March 2011	Electronic version of code monograph ready	ICC REF STAND committee to begin work around this time frame.

16-22 May 2011	Code hearings Dallas, TX	
12 August 2011	Code Challenges Due	
16 September 2011	Posting of Challenges	
2-6 November 2011	Final Action Hearings Phoenix, AZ	

4.2 - ICC Reference Standards and ICC Standards. Chairman requested input from attendees and ICC staff if it would be appropriate for the ICC Reference Standards Committee to participate in the ICC standards development process overseeing referenced standards. The general consensus was that it would not be appropriate nor equitable. In light of the opinions presented, the ICC Reference Standards committee will therefore not pursue involvement with ICC standards development.

Discussions:

- Could be perceived as unfair treatment by ICC Reference Standards Committee when focus would be on ICC standards development and no other standards development.
- May be considered inappropriate by providing what could be perceived as additional or preferential treatment to ICC and not all standards developers.
- Need to remember what constitutes reasonable review of proposed standards.

4.3 - Standards distribution. Mr. Bowman solicited comments and opinions from the attendees regarding the proposal to provide a central web site to hold electronic versions of proposed standards for ICC business. In this case such business would include viewing of the proposed standards by ICC staff, ICC code development committees and a request to allow viewing by the ICC Reference Standards Committee.

Discussions

- Moving to the use of electronic version of proposed standards has reduced the workload by the standards developer, through both the use of electronic copies and the use of a central web page which was secure.
- As one who served as a code development committee member found the web accessible option to be attractive and user friendly.
- Need to be caution who will have access to proposed standards, perhaps selection of one member of ICC Reference Standard Committee and not whole committee.
- Need to be cautious of the size of files as that could hamper the access and reading of proposed standards on line.
- Previous to the central web page location for proposed standards one attendee noted that electronic files of standards were provided to ICC which contained watermarking. Recommend that watermark precaution continue in order to protect the intellectual property, rights and distribution.
- Continue to retain proper security measures for limited access to said web page.

4.4 - New Code. Mr. Bowman announced that there will soon be an International Swimming Pool Code. Work has begun developing the draft and it is anticipated that it will be ready to be processed through the 2011 code cycle in conjunction with the IgCC. Publication is scheduled for 2012.

5.0 - Next meeting. Chairman anticipated the next telephone conference to take place March 2011 for the purpose of discussing and assignments in preparation for the IgCC code hearings.

6.0 - Adjourn. Meeting adjourned at 2:45 PM EST.

**ATTACHMENT – A
Watch List**

AMD

#	Standard	Requested Action	Final Action
AMD39	Updating of standards	No action	

IECC

#	Standard	Requested Action	Final Action
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EC3, PC-2	<p>ASTM E972-2007</p> <p>Analysis: ASTM E972-2002 in was proposed for review EC179. Copies were supplied to the IECC Committee. The version proposed in this public comment is dated 2007.</p>	No action	
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EC13 (AS)	<p>Original proposal:</p> <p>DOE 10 CFR 430</p>	No action	
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EC13, PC-6	<p>C828-2006 (paragraph 4.3) "Performance requirements for thermostats used with individual room electric space heating devices"</p> <p>Analysis: The standard, CSA 828, was not reviewed or considered by the Energy Code Development Committee prior to the Baltimore hearings and it was not considered by the hearing attendees at the time of the code development hearings. Section 3.6.3.1 of Council Policy # 28, <i>Code Development</i>, requires that new standards be introduced in the original code change proposal, therefore, the introduction of a new standard via a public comment is not in accordance with the process required by CP # 28 for adding new standards to the code.</p>	No change to analysis. Standard not available at time of this meeting.	
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EC71 Part-1 (D)	Original proposal: ASTM E1918-06 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field ASTM C1549-04 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field	No action No action	
EC71 PC-1	ASTM E1980-2001 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	No action Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC71 PC-2	ASTM E1980-2001 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces	No action	
EC71 PC-3	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC71 PC-4	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	

EC71 Part-2 (D)	Original proposal: ASTM E1918-06 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field ASTM C1549-04 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field	No action No action	
EC71 PC-1	ASTM E1980-2001 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	No action Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC71 PC-2	ASTM E1980-2001 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces	No action	
EC71 PC-3	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC71 PC-4	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	

EC88 (AM)	Original proposal- ICC 400-07 IS LOG Standard on the Design and Construction of Log Structures	No action	
EC89 (D)	Original proposal: Z21.50-03 Vented Gas Fireplaces—with Addenda Z21.50a-2003 Z21.60-03 Decorative Gas Appliances for Installation in Solid Fuel Burning Fireplaces—with Addenda Z21.60a-2003 Analysis: ANSI Z21.50-03 and ANSI Z21.60-03 are currently referenced in the IRC.	No action No action	
EC89 PC-1	Deletes reference standards	No action	
EC89 PC-2	Deletes reference standards	No action	
EC99 (AM)	Original proposal: HVI 916-09 Airflow Test Procedure	Watch NC 3.6.3.2	
EC105 (D)	Original proposal: ANSI/ACCA QI – 2007 HVAC Quality Installation Specifications	No action	
EC105 PC-1	ACCA 5 QI The ANSI standard is available as a <i>FREE</i> .pdf download at www.acca.org/quality .	No action	
EC106 Part 1 (D)	Original proposal: ASHRAE 193 Method of Text for Determining the Air Leakage Rate for HVAC Equipment First hearing standard was not available.	NC 3.6.3.1 Not available	
EC106 PC-1	See original	No change to analysis. Standard not available at time of this meeting.	
EC106	See original	No change	

PC-2		to analysis. Standard not available at time of this meeting.	
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EC106 Part 1 (D)	Original proposal: ASHRAE 193 Method of Text for Determining the Air Leakage Rate for HVAC Equipment First hearing standard was not available.	NC 3.6.3.1 Not available	
EC106 PC-1	See original	No change to analysis. Standard not available at time of this meeting.	
EC106 PC-2	See original	No change to analysis. Standard not available at time of this meeting.	

EC108 (D)	Original proposal: ACCA Manual J-02 Residential Load Calculations Eighth Edition	No action, ref. in IRC	
EC108 PC-1	ACCA Manual S-04 Residential Equipment Analysis: A new standard, ACCA Manual S has been proposed for inclusion in the code by the modification offered in this public comment. This standard, was not reviewed or considered by the IECC Code Development committee and it was not considered by the hearing attendees at the time of the code development hearings. Section 3.6.3.1 of Council Policy #28, <i>Code Development</i> , requires that new standards be introduced in the original code change proposal, therefore, the introduction of a new standard via a public comment is not in accordance with the process required by CP# 28 for adding new standards to the code.	No change to analysis. Standard not available at time of this meeting.	D

EC119 Part 1 (D)	Original proposal: AHRI 470-06 Performance Rating of Desuperheater/Water Heaters SRCC OG-300 Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems	No action No change to analysis. Standard not available at time of this meeting.	
EC119 PC-1	AHRI 470-06 Performance Rating of Desuperheater/Water Heaters SRCC OG-300 Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems	No action No change to analysis. Standard not available at time of this meeting.	D
EC119 Part 2 (D)	No challenges to Part 2 (Informational note)		

EC121 Part 1 (D)	Original proposal: ACCA Manual J 2006 Residential Load Calculation	No action. Ref. in IRC	
EC121 PC-1	ACCA Manual S ACCA Manual J	No change to analysis. Standard not available at time of this meeting.	D
EC121 PC-2	ACCA Manual S ACCA Manual J	No change to analysis. Standard not available at time of this meeting.	D

EC121 Part 2 (D)	<p>Original proposal:</p> <p>AHRI 210/240 —03 Unitary Air-Conditioning and Air-Source Heat Pump Equipment</p> <p>AHRI 310/380 —93 Standard for Packaged Terminal Air-conditioners and Heat Pumps</p> <p>AHRA/ASHRAE 13256-1 (2005) Water-source Heat Pumps—Testing and Rating for Performance—Part 1: Water-to-air and Brine-to-air Heat Pumps (ANSI/ASHRAE/IESNA 90.1-2004)</p> <p>ANSI Z21.47-03 Gas-Fired Central Furnaces</p> <p>DOE 10 CFR Part 430 , Subpart B, Appendix E (1998) Uniform Test Method for Measuring the Energy Consumption of Water Heaters</p> <p>UL 727 —06 Oil-fired Central Furnaces</p>	<p>No action. IECC</p> <p>New</p> <p>Is an ISO document</p> <p>No action</p> <p>No action</p> <p>Chair to contact B. Eugene.</p>	<p>Call Bob</p>
EC121 PC-1	<p>ACCA Manual S ACCA Manual J</p>	<p>No change to analysis. Standard not available at time of this meeting.</p>	

EC131 Part 1 (D)	<p>Original proposal:</p> <p>AHRI 470-06 Performance Rating of Desuperheater/Water Heaters</p> <p>SRCC OG-300 Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems</p> <p>Analysis: Review of the proposed new standard AHRI 470-06 indicated that, in the opinion of ICC staff, the standard did comply with ICC standards criteria.</p>	<p>No action</p> <p>NC 3.6.2.11 3.6.3.2</p>	
EC131 PC-1	<p>Asking AS, See above.</p>		

EC131 PC-2	Asking AM, See above.		
EC131 PC-3	Asking Am, See above.		

EC131 Part 2 (D)	Original proposal: AHRI 470-06 Performance Rating of Desuperheater/Water Heaters SRCC OG-300 Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems	No action NC 3.6.2.11 3.6.3.2	
EC131 PC-1	Asking AS, See above.		
EC131 PC-2	Asking AM, See above.		

EC147 (AS)	Original proposal: ASTM E779-03 Standard Test Method for Determining Air Leakage Rate by Fan Pressurization ASTM E1677-95 (2000) Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls ASTM E2178-03 Standard Test Method for Air Permeance of Building Materials ASTM E2357-05 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies ASTM C1371-04 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers ASTM C1549 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer ASTM E408-71 (02) Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques ASTM E1918-97 Standard Test Method for Measuring Solar Reflectance of Horizontal or Low-Sloped Surfaces in the Field	No action No action No action, See IRC No action No action No action No action No action	
EC147	AMCA 500D	No change	

PC-1		to analysis. Standard not available at time of this meeting.	
EC147 PC-2	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard E1980(2001) Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces	Chair must abstain. No change to analysis. Standard not available at time of this meeting. No action	
EC147 PC-10	E1980(2001) Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces	No action	
EC147 PC-11	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC147 PC-22	ANSI/CRRC-1 Standard (2010) Cool Roof Rating Council CRRC-1 Standard	Chair must abstain. No change to analysis. Standard not available at time of this meeting.	
EC147 PC-37	UL 1784 (Is in IBC)	Bob Eugene assistance	

EC165 (AS)	No standard proposed.	No action	
EC165 PC-2	ASTM D1003 07 Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	No action	
	ASTM E972 - 07 Standard Test Method for Solar Performance Transmittance of Sheet Materials Using Sunlight	No action	

EC166 (D)	No standards proposed.	No action	
EC166 PC-1	NFRC 200	No action, in IECC Not provided. Not provided.	
	NFRC 300		
	NFRC 301		
EC166 PC-2	National Fenestration Rating Council 300-2004 Standard Test Method for Determining the Solar Optical Properties of Glazing Materials of Glazing Materials and Systems	No change to analysis. Standard not available at time of this meeting.	
	301-2004 Standard Test Method for Emittance of Specular Surfaces Using Spectrometric Measurements		
	ASTM D1003 -07e1 Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	No action	
	ASTM E972 96(2007) Standard Test Method for Solar Performance Transmittance of Sheet Materials Using Sunlight.	No action	

EC172 (D)	Original proposal:	Humble and Bowman to review history	
	AAMA 507-07 Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems Installed Commercial Buildings Staff Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did comply with ICC standards criteria.		
EC172 PC-1	Asking AS, See above.		

EC173 (AM)	Original proposal: ASTM D 1003-07e1 Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics Staff Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did comply with ICC standards criteria.	No action	
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EC179 (AM)	Original proposal: ASTM D1003-00 <i>Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics</i> ASTM E972-96(2002) <i>Standard Test Method for Solar Photometric Transmittance of Sheet Materials Using Sunlight</i> Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did comply with ICC standards criteria.	No action No action	
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EC179 PC-1	Proposes to delete the standards, see above.	No action	
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EC184 (D)	Original proposal: ASTM E 2178	No action, See IRC	
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EC184 PC-1	Asking for AM, See above.		
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EC191 (D)	Original proposal: CTI ATC-105 (00) Acceptance Test Code for Water Cooling Towers CTI STD-201 (04) Standard for Certification of Water Cooling Tower Thermal Performance ARI 400-2001 Liquid to Liquid Heat Exchangers with Addendum 2 Committee Reason: The standards referenced by the change do not comply with ICC policy regarding such references.	NC 3.6.2.1 3.6.2.11 3.6.3.2 NC 3.6.2.1 3.6.2.11 No action	
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EC191 PC-1	<p>Cooling Technology Institute (CTI) STD-201(04) (09) Standard for Certification of Water Cooling Tower Thermal Performance</p> <p>Air Conditioning, Heating, and Refrigeration Institute (AHRI) 460-2005 Performance Rating of Remote Mechanical Draft Air-Cooled Refrigerant Condensers</p>	<p>NC 3.6.2.1 3.6.2.11</p> <p>No change to analysis. Standard not available at time of this meeting.</p>	
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EC193 (D)	<p>No standards proposed.</p>	<p>No action</p>	
EC193 PC-1	<p>International Organization for Standardization (ISO) 13256-2 (1998) Water-Source Heat Pumps— Testing and Rating for Performance-Part 2: Water-to-Water and Brine-to-Water Heat Pumps</p> <p>Analysis: The standard, ISO 13256-2, was proposed as part of EC 195. It was reviewed by the Energy Code Development Committee at the Baltimore hearings. EC195 is an alternative proposal also amending Table 503.2.3(2).</p>	<p>JH has copy</p>	
EC193 PC-2	<p>Air Conditioning, Heating, and Refrigeration Institute (AHRI) 390 -1 (2003) Performance Rating of Single Packaged Terminal Air-Conditioners and Heat Pumps</p> <p>ANSI/AHAM RAC 1 (R2008) Room Air Conditioners</p> <p>Analysis: The standards, AHRI 390 and ANSI/AHAM – RAC-1 were not reviewed or considered by the Energy Code Development Committee prior to the Baltimore hearings and they were not considered by the hearing attendees at the time of the code development hearings. Section 3.6.3.1 of Council Policy # 28, <i>Code Development</i>, requires that new standards be introduced in the original code change proposal, therefore, the introduction of a new standards via a public comment is not in accordance with the process required by CP # 28 for adding new standards to the code.</p>	<p>No change to analysis. Standard not available at time of this meeting.</p>	

<p>EC194 (D)</p>	<p>Original proposal:</p> <p>CTI ARC-105 (00) Acceptance Test Code for Water Cooling Towers</p> <p>CTI STD-201 (04) Standard for Certification of Water Cooling Tower Thermal Performance</p> <p>Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did not comply with ICC standards criteria, Sections 3.6.2.1 and 3.6.2.11</p>	<p>NC 3.6.2.1 3.6.2.11 3.6.3.2</p> <p>NC 3.6.2.1 3.6.2.11</p>	
<p>EC194 PC-1</p>	<p>CTI ARC-105 (00) Acceptance Test Code for Water Cooling Towers</p>	<p>NC 3.6.2.1 3.6.2.11 3.6.3.2</p>	
<p>EC194 PC-2</p>	<p>Cooling Technology Institute (CTI) CTI ATC-105 (00) Acceptance Test Code for Water Cooling Towers</p> <p>CTI STD-201 (09) Standard for Certification of Water Cooling Tower Thermal Performance</p> <p>Air Conditioning, Heating, and Refrigeration Institute (AHRI) AHRI 460-2005 Remote Mechanical Draft Air Cooled Refrigerant Condensers</p> <p>Analysis: The CTI standard STD 201 was available and reviewed by the Energy Code Development Committee as part of the Baltimore hearings. It should be noted that the 2004 edition was reviewed. As part of the public comment, it is proposed to change the edition to the 2009 edition. AHRI 460 was included in code change proposal EC191-09/10 and considered under that code change.</p>	<p>NC 3.6.2.1 3.6.2.11 3.6.3.2</p> <p>NC 3.6.2.1 3.6.2.11</p> <p>No change to analysis. Standard not available at time of this meeting.</p>	

EC195 (AS)	Original proposal: ISO 13256-2 (1998) Water-Source Heat Pumps—Testing and Rating for Performance- Part 2: Water-to-Water and Brine-to-Water Heat Pumps Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did comply with ICC standards criteria.	JH has copy	
EC195 PC-1	Asking AM, See above.	Watch	

EC217 (D)	Original proposal: ANSI/NEMA MG 1-93 Motors and Generators Analysis: Review of the proposed new standard indicated that, in the opinion of ICC staff, the standard did not comply with ICC standards criteria, Sections 3.6.2.11 and 3.6.3.2. Committee Reason: The proposal was disapproved because the committee felt that the change was not clearly enforceable as currently written. In addition they felt that energy used for fire pumps should not be regulated by the code. Finally, the proposed referenced standard does not comply with ICC policy for referenced documents.	Opposed	
EC217 PC-1	Asking AS, See above.	NC 3.6.2.11 3.6.3.2	

EC230 (D)	Original proposal: Energy Policy Act of 2005 NEMA TP-1 2002 Committee Reason: The proposal references a standard without actually including a correct reference for Chapter 6 of the code. The standard was said not to comply with ICC policy regarding referenced documents.	Opposed	
EC230 PC-1	10 CFR 431, Subpart K (2006) Uniform Test Method for Measuring the Energy Consumption of Distribution Transformers (Replaces above standards)	Position document not provided to ICC	Jody to review

	<p>Analysis: The 10 CFR 431, Subpart K was not reviewed or considered by the Energy Code Development Committee prior to the Baltimore hearings and it was not considered by the hearing attendees at the time of the code development hearings. Please note that the 2009 IECC does reference Subpart E of this DOE regulation. Section 3.6.3.1 of Council Policy # 28, <i>Code Development</i>, requires that new standards be introduced in the original code change proposal, therefore, the introduction of a new standard via a public comment is not in accordance with the process required by CP # 28 for adding new standards to the code.</p>		
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(END)