



**ICC CODE TECHNOLOGY COMMITTEE
MEETING #17
April 9 – 10, 2009**

DRAFT MINUTES
Doubletree Hotel – Birmingham
808 South 20th Street
Birmingham, AL 35205
(205) 933 - 9000

Thursday, April 9: 8:00 am – 5:00 pm
Friday, April 10: 8:00 am – 4:00 pm

1.0 Welcome and introductions - Chair Heilstedt

1.1 Call to order; introductions; welcoming remarks

Chair Heilstedt called the meeting to order at approximately 8:00 am on April 9th, welcoming those in attendance.

Members present (company/representation): Mike Ashley (Alliance for Fire & Smoke Containment & Control); Carl Baldassarra (Schirmer Engineering- Vice Chair), Bill Bell (City of Orem), Ron Clements (Chesterfield, VA), Dave Collins (AIA), Jimmy Deer (City of Fort Smith), Paul Heilstedt (self- Chair), Wade Hill (Metro Nashville, TN), Wayne Jewell (Southfield, MI), Ray Kothe (NAHB), Mike Love (Montgomery County, MD), Ron Nickson (NMHC), William Schock (San Leandro, CA), Carl Wren (Austin, TX)

Members absent: Erin Ashley (National Ready Mix Concrete Assoc), Richard Bukowski (NIST), Barry Gupton (North Carolina Department of Insurance)

Staff liaison: Mike Pfeiffer

Attendees: A list of attendees is provided at the end of these minutes.

2.0 Approve agenda

Approved. Add a discussion on FDS modeling following agenda item 9.3.

3.0 Approve minutes of CTC Meeting #16 November 12 – 13, 2008

Following a discussion on item 9.3 , the minutes were approved.

4.0 Administration

4.1 Welcome new CTC members

New members Mike Ashley, Bill Bell, Jimmy Deer were in attendance.

4.2 Elect Chair/Vice chair

Paul Heilstedt was re-elected Chair and Carl Baldassarra Vice Chair.

4.3 New ICC Code Development Process

Staff recapped the revisions to the ICC Code Development Process as announced by the Board in February/2009.

- A single cycle of code development between editions with codes broke into two groups with a Code Development Hearing (CDH) and Final Action Hearing (FAH) occurring over the first two years of the cycle. Editions produced in the 3rd year (published in the Spring of the third year – approximately one year earlier than previous editions)
- 2009/2010 will be a transition with all codes considered at the 2009 Code Development Hearing in

- Oct/Nov 2009 and two Final Action Hearings in 2010 (May and at the Annual Conference)
- Technical modifications at the CDH will be permitted; however the ruling of the Chair as to in or out of order will be final and not be subject to points of order
- Successful assembly actions require a 2/3 majority and if successful, the motion becomes the standing motion at the FAH

5.0 Climbable Guards

5.1 Working meeting – 2009/2010 cycle

a. Follow up to E85 – 07/08 – seat board terminology

Chair Heilstedt presented the posted set of proposals “CTC code change proposal – Re: E85-07/08”:

- The proposed definition of “fixed seating” was approved
- 1013.2 Alternative #1, the group reviewed the diagrams provided by Dave Cooper
 - Confusion noted over how to “measure perpendicular”
 - The 22” dimension is unclear as to measurement
- 1013.2 Alternative #2
 - It was acknowledged that the 22” measurement was arbitrary but the group preferred this alternative #2 over alternative #1
 - The group agreed with the need to clarify the guard height at the first row of assembly seating

Dave Cooper presented his SMA proposal:

- The proposed revisions are intended to restrict the 36” guard height within the building only
- Expands the guard height to 36” to all residential guards regulated by the IBC

This proposal raised the question as to the expectation of the CTC in terms of consistency between the IBC and IRC with respect to guards. The CTC was in agreement for the need for consistency. This led to the question of increasing the guard height in the IRC to 42” to match the IBC – no action taken and this may be discussed in follow-up conference calls where the code changes will be finalized prior to the code change deadline.

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

5.2 Update Final Report May 2008 (5/21/08)

No action. The final submitted version of the code change(s) will serve as the update report.

6.0 Child Window Safety

6.1 Study group update /Working meeting – 2009/2010 cycle

a. Follow-up to RB 173 – 07/08

The CTC reviewed the posted “2009/2010 Cycle draft proposals” dated 3/27/09:

1. Inconsistent IBC/IRC action

CTC will submit a code change to resolve the inconsistency created at the 2008 FAH based on the membership action.

2. Minimum sill height

The increase in minimum sill height is based on the NOMMA data which notes the center of gravity of children. CTC will submit a code change to increase the minimum sill height.

3. Update of ASTM F2090; inclusion in the code

Julie Ruth provided an update on the status of ASTM F2090, noting that the scope has been expanded to both opening control and limiting devices. There are also concerns with the content of the standard by some members of industry. CTC will submit a code change to reference the updated standard. It was noted that the IBC exception needs to be revised to address the 75’ threshold which is limited to the IBC.

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

6.2 Develop Report

No action. The final submitted version of the code change(s) will serve as the update report.

7.0 Care Facilities

7.1 Study group update/Working meeting – 2009/2010 cycle

a. Comprehensive revision to care facilities

Care study group chair Wayne Jewell provided a comprehensive review of the posted latest draft – Interim Draft Report No. 5. Discussion items:

- Whether or not to define the term “care facility” and how to address the issue of self preservation
- Definition of “incapable of self preservation”
- Definition of “custodial care”
- How to determine 24 hours of operation and the corresponding code language
- Reference to the IRC for certain care facilities in light of the new sprinkler provisions included in the 2009 IRC
- Retain current Institutional groups: I-1, I-2, I-3 and I-4
- How extensive of a laundry list of typical occupancies which fall under the different I - Group classifications
- Whether or not to eliminate terms “adult care” and “child care”
- Replace term “patient” with “care recipient”
- Clarification of smoke barrier compartments in I-2
- Retain ambulatory care provisions approved last cycle, with further changes based on public comments that were not approved

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

7.2 Update Final Interim Report No. 1 dated 3/9/06

No action. The final submitted version of the code change(s) will serve as the update report.

8.0 Review of NIST WTC Recommendations

8.1 Working meeting – 2009/2010 cycle

a. Follow-up to 07/08 cycle code changes:

S81: wind tunnel test standard

Re-submit S81 from last cycle based on the assumption that the ASCE standard will be available.

S101: structural integrity

CTC reviewed Public comment #2 that was submitted last cycle to determine if there is a need to resubmit. It was decided not to resubmit the proposal.

FS 115: structural frame

CTC reviewed posted “Structural frame proposals for the 2009/2010 ICC Code Development Cycle” authored by Phil Brazil. The issues are: location of the definition – in the text of Ch 7 or as a definition as it is currently; and questions for members such as steel floor members, not on a column line, which serve to reduce the unbraced length of the members they frame into. There was a bit of disagreement on this point as many structural members in a building impact the design of members they frame into as far as structural considerations. The other issue raised was the need for roof framing to be identified in the context of secondary members as only floor construction is currently addressed.

CTC decided to keep it as a definition and to submit a change to add roof construction as a secondary member where the member is not on a column line.

G68/G69: density of sprayed fire resistive materials

CTC reviewed posted “Code Change Proposal” for the deletion of Table 403.2.4. Discussion:

- The issue is one of documentation to support the deletion of the current requirements. It was noted that the documentation was lacking when the provisions were added to the code in the first place – as evidenced by the committee reason I G68-06/07 which stated, in part: “Although the data which provides technical support was not provided with the proposal...”.
- Questions of “event” were raised which warranted the higher density for taller buildings.
- It was further noted that when G68 was considered originally, the cost increase was said to be 10% – 20% higher. This may not be the case.
- Many felt that the issue is not the density but rather the need for quality inspections which has been furthered with subsequent code change activity in Ch 17.

The CTC decided to resubmit the change documenting the above.

E3/E4: evacuation plans

It was noted that while the fire service agrees in concept with the intent of the changes, there were issues with the wording.. Resubmit with a reference to 401.2 of the IFC to address this concern.

The CTC will hold follow-up open meeting calls to finalize the proposals for agenda item 8.1. See item 15.1.

b. Ad Hoc Terrorism Resistant Buildings efforts on

F 86: fire command center

G56: exit enclosure impact resistance

G58: stairway communication

G108: risk assessment

New: thermal expansion of floor systems

As of the CTC meeting, the TRB has not identified what it is planning to submit.

8.2 Update Final Interim Report No. 3 dated 3/15/07

No action. The final submitted version of the code change(s) will serve as the update report.

9.0 Balanced Fire Protection (BFP)**9.1 Vertical openings****a. Study group update/Working meeting – 2009/2010 cycle**

Ron Nickson, Mike Ashley and Jay Hall were added to the SG. Sam Francis and Gregg Keith were removed. VO study group member Jay Hall provided a comprehensive review of the posted latest draft – 2009/2101 Draft Proposals – Chapter 7”. Discussion items: The key consideration is to remove the exception format from 712 and place the provisions in a mandatory text format. Questions arose relative to how to interpret the “100 in²/100 ft”. The study group will reconvene and determine what they can accomplish this cycle.

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

b. Develop Vertical Openings report

No action. The final submitted version of the code change(s) will serve as the update report.

9.2 Features**a. Study group report**

Feature study group chair Dave Collins provided a review of the posted “Draft report of the CTC”. It was noted that the SG met and decided to recommend to the CTC that the effort be disbanded. They have gone as far as they felt they can go. It was noted that over the history of the legacy code, Height

& Area was always being “tweaked” and it is very likely this will continue in the IBC.

CTC agreed that the SG should be disbanded.

b. Develop Features report

There is a need to memorialize the documentation created in the effort and to draft a report. This has yet to be done.

9.3 Roof vents

a. Study group update/Working meeting – 2009/2010 cycle

1. Roof vents in unsprinklered buildings

2. Code text vs NFPA 204

3. Mechanical smoke exhaust

4. Multiple vent operation

5. Roof vents in high piled storage areas

6. ESFR’s and roof vents

Add Mike Love to the SG. Roof vent SG chair Carl Baldassarra provided a comprehensive review of the posted latest draft – 2009/2010 Draft Proposals” dated 4/1/09, noting that the SG continues to study this issue. Discussion:

- Focus on smoke removal and post fire
- Need two separate fans for reliability
- Why is 910.4 limited to sprinklered bldgs
- Ganged vents work in sprinklered bldgs in Europe
- Need roof vents to operate during fire fighting operations. This is noted in the annex to NFPA 204.
- NFPA 204 updates to include ganged vents failed

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

b. Update Final Interim Report No. 1 dated 10/19/06

No action. The final submitted version of the code change(s) will serve as the update report.

New Item: Modeling

This item has been added to the agenda due to the flurry of emails on the subject. Some in favor of certain types of modeling, others not in favor. Discussion:

- FDS modeling is the gold standard created by NIST. It is just a tool and has its limitations
- Use of modeling impacts testimony at the code hearings
- SFPE is looking into it

CTC took no action.

9.4 Methodology

a. Determine future of effort

There has been no progress on this item. CTC disbanded the SG

9.5 BFP Overall

a. Working meeting – Develop BFP progress report

No action.

10.0 Emergency Evacuation with Elevators

10.1 a. Develop Report based on NIST WTC Recommendations area of study

This area of study is being adequately covered under the NIST WTC Recommendations area of study and need not be considered a separate area of study.

11.0 Labeling of Fire Rated Glazing

11.1 Study group update/Working meeting – 2009/2010 cycle

SG chair Carl Wren provided a comprehensive review of the posted latest draft “2009/2010 Draft.” Discussion items:

- Glazing is being mis-used in the field
- It is not clear which glazing can be used in which applications. Need a consistent labeling program to avoid confusion

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

11.2 Develop Report

No action. The final submitted version of the code change(s) will serve as the update report.

12.0 Unenclosed exit stairs

12.1 Study group update/Working meeting – 2009/2010 cycle

Gregg Keith provided a comprehensive review of the posted latest draft “2009/2010 Draft Proposals.” Discussion items:

- If not enclosed, is it still an exit?
- Travel distance measurement?
- Impact on number of exits required from a floor?
- Impact on egress convergence?
- Impacts not only Chapter 4 but other sections in the code that deal with related means of egress issues

The CTC will hold follow-up open meeting calls to finalize the proposals. See item 15.1.

12.2 Develop Report

No action. The final submitted version of the code change(s) will serve as the update report.

13.0 New business

See modeling discussion after item 9.3

14.0 Old business

None

15.0 Future Meetings (tentative)

15.1 Follow-up conference calls prior to code change deadline

Tentatively set at:

- April 30th: Roof vents, labeling of fire rated glazing, child window safety, climbable guards, NIST WTC
- May 26th: Care facilities, Vertical openings, Unenclosed exits

15.2 CTC Meeting # 18:

Tentatively set at September 10 -11.

16.0 Adjourn

Meeting adjourned at 12:40 on April 10th.

CTC website for posted materials: <http://www.iccsafe.org/cs/cc/ctc/index.html>

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DRAFT MINUTES

List of Attendees

Bob Davidson	Davidson Code Concepts - NASFM
Dave Frable	US GSA/PBS
Greg Keith	The Boeing Company
Jeri Morey	Self
Larry Perry	BOMA International
Julie Ruth	AAMA
Richard Schulte	Schulte Associates
Kate Steel	Steel Consulting, SAFTI First
Thom Zaremba	Roetzel and Andress
Todd Daniel	NOMMA
James Minter	NOMMA
Stanley Lawler	NOMMA
Sam Francis	AF & PA
Stan Hathorn	Homeland Vinyl
Bob Simpson	AAMA Smokevent
Rich Walke	UL
John Valiulis	Hilti
Eric Babcock	HAI-NYS OMH
Dave Dratnol	Isolatek International
William Koffel	Koffel Associates
Bill McHugh	Firestop
Amanda Hickman	InterCode Inc.