



ICC CODE TECHNOLOGY COMMITTEE
BALANCED FIRE PROTECTION – FEATURES STUDY
GROUP (formerly Height & Area)
MEETING #6

April 24 – 25, 2007

DRAFT MINUTES

Hilton Garden Inn
Phoenix, AZ 85012
(602) 279 - 9811

April 24: 1:00 pm – 5:00 pm
April 25: 8:00 am – 4:00 pm

1.0 Welcome and introductions – Co-chairs Collins & Dargan

1.1 Call to order; introductions; welcoming remarks

The meeting was called to order at 1:20 pm on April 24th, welcoming those in attendance. Self introductions were made.

Voting members present: Carl Baldassarra, Laura Blaul, Dave Collins (Co-chair), Kate Dargan (Co-chair), Dave Frable, Sam Francis, Jim Messersmith, Ron Nickson, Larry Perry, Dennis Richardson, Emory Rodgers, Jerry Sanzone, Jon Siu, Rick Thornberry, Robert Wills, Carl Wren

Members absent: Sean DeCrane (non voting), Paul Myers (non voting)

Staff liaison: Mike Pfeiffer

The group was briefed on the meeting of the Safe Building Coordinating Committee which held a meeting earlier in the day. Both Dave Collins and Rick Thornberry presented at the meeting – Table 503 and compartmentation, respectively. Other topics of discussion included sprinklers and hydrogen.

2.0 Approve agenda

Approved.

3.0 Approve minutes of Meeting #5 March 28, 2007

Approved as revised.

1.0 Revise to read: "...Bureau Veritas North America, Inc.; Kate..."

5.0 Revise second bullet to read: "...Greater than 50% of the study group..."

6.1 Revise sixth bullet to read: "...height and area (G99 – G101) code changes..."

Attachment B: Rules and Procedures: Under "Proposed Structure for Action", Revise second paragraph to read: "In order to.....resolved. At the discretion of the chairs, the time available for discussion..."

4.0 Review IBC height and area proposed changes for 2007/2008 cycle

This item was brought up and revisited periodically during the meeting. The goal was noted as height and area code changes for the 2007/2008 cycle as well as issues beyond height and area. It was noted that the group needs to become more visible in the upcoming cycle via code changes as the vehicle to let the membership know where the group is heading. It was noted that it may be

difficult to complete work on new concepts in time for the code change deadline.

4.1 Height limitation (Thornberry)

This proposal is G113-06/07. A handout of the actual code change submittal was distributed. The issues noted:

- IBC allows taller buildings than any of the legacy codes
- Pedestal building loose a story
- Need 10' of height increase vs the proposed 5'
- Height is measured from the 3 hour horizontal assembly

A motion was made, seconded and ultimately tabled to approve the proposal as written. The group re-visited it later.

Following agenda item 4.4, the group considered a motion to approve the proposal as written. This was followed by a motion to modify to change the sprinkler increase from 5 feet to 10 feet to address podium buildings.

This was approved with the revision from 5 feet to 10 feet as a code change for the 2007/2008 cycle.

4.2 Type IIB and IIIB (Wills)

A handout was distributed, noting the proposed revision for Groups M, S-1 and S-2. This included revising Table 503 heights to read as follows:

Occupancy:	Type IIB	Type IIIB
M	4 <u>2</u>	4 <u>2</u>
S-1	3 <u>2</u>	3 <u>2</u>
S-2	4 <u>3</u>	4 <u>3</u>

This was approved as a code change for the 2007/2008 cycle. The group held off on the discussion of revisions to Group R pending agenda item 4.3.

Following 4.3, the group approved the following height revisions as a code change for the 2007/2008 cycle.

Occupancy	Type IIB	Type IIIB
R-1, R-2, R-4	4 <u>3</u>	4 <u>3</u>

4.3 Group R-1/R-2 (Richardson)

A handout was distributed, noting proposed changes to Table 503 for Groups R-1 and R-2. Also included was proposed text (new 1017.6) dealing with cross-corridor doors to limit the corridor length to no more than 100 feet for the corridors located on the fourth floor and above. The proposed text dealing with the cross corridor design included a definition for “cross corridor doors”.

The basis for the proposal was noted as compartmentalizing the corridor to support evacuation and fire fighting by minimizing the amount of smoke in the corridor for these occupancies which are already sprinklered and compartmented between units.

The group considered a total of 5 modifications on the proposed definition and text to 1017.6. One of the modifications to delete the noted types of construction passed, the remaining 4 modifications failed. The proposed text of 1017.6, as modified, failed.

The group then considered two modifications to Table 503 and one to Table 503 as proposed. The motions failed.

The group went back to agenda item 4.2.

4.4 Others

Dennis handed out a document “Rough draft language to Solve Problem with One-Story Existing Buildings”. A modification to add NFPA 13R as a allowable sprinkler system in Exception 1 passed. The group noted it needs more work and should be brought back to the next meeting.

Rick indicated he was going to look at Jim Messersmith’s spreadsheet for possible revisions for the group to consider.

The group went back to item 4.1.

5.0 Develop report on activities (Collins/Dargan)

Kate presented a first draft of the report. The report is comprised of three main parts:

- Origins and background
- Current group vision
 - Concept Development Objectives
 - Key Development Concepts
- Concept Development Deliverables

Over the course of the meeting, the group reviewed the report and the report was revised. Specifically, each item was presented to the group for their agreement or disagreement, with revisions following.

6.0 Height and area philosophy (Baldassarra)

Not discussed by the group.

7.0 Occupancy based features matrix (Collins)

Dave presented an occupancy based matrix, noting the key system requirements.

This led to a discussion of compartmentation, noting typical 12,000 – 20, 000 sq. ft. thresholds for compartmentation of nonsprinklered compartments and 50,000 – 100, 000 sq. ft. for sprinklered compartments.

8.0 Fire service standard first alarm response (Wren)

Carl presented information on both the IOWA Fir Flow Study from 1950 as well Appendix B in the IFC. During the discussion, Schirmer Engineering’s Dallas study was also discussed. Of note:

- Gpm flow/150 approx equals manpower required for the truck
- Alternatively, manpower of 4 is needed for 1 pump/3 lines
- Dallas study yielded smaller numbers
- The assumed pump commitment is a critical issue
- The IFC tables are an oversimplification of ISO

9.0 Old business

None

10.0 New business

None

11.0 Future meetings

Confirmed: June 19: Cincinnati (CTC meets June 20th)

Tentative agenda for possible 2007/2008 code changes noted as:

- Exiting (Frable, Wren, Blaul, Richardson)
- Compartmentation (Collins, Wren, Perry, Messersmith)
- Smoke management (Thornberry, Blaul)
- Fire ratings (Sanzone, Siu)

Confirmed: August 1 - 3: Chicago

12.0 Adjourn

The meeting was adjourned at approximately 4:00 pm on April 25th.

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

ICC CODE TECHNOLOGY COMMITTEE

**BALANCED FIRE PROTECTION – HEIGHT & AREA STUDY GROUP
MEETING #6**

DRAFT MINUTES

List of Attendees

Kurt Roeper
Bill McHugh
Pat McLaughlin
Farid Alfawakhiri
Jeff Hugo

Ingersoll Rand
FCIA
SIA/CSPA/PPG
AISI
NFSA