



**ICC CODE TECHNOLOGY COMMITTEE
MEETING #13
October 4 - 5, 2007**

DRAFT AGENDA

**Grand Sierra Resort
2500 East 2nd Street
Reno, Nevada 89595**

October 4, 2007: 8:00 am – 5:00 pm

October 5, 2007: 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 October 4th, welcoming those in attendance.

Members present (company/representation): Carl Baldassarra (Schirmer Engineering- Vice Chair), Dick Bukowski (NIS), Ron Clements (Chesterfield, VA), Dave Collins (AIA), Paul Heilstedt (self- Chair), Steve Jones (Milburn, NJ; arrived at 12:00 on October 4th), Ray Kothe (NAHB), Marsha Mazz, (US Access Board), Ron Nickson (NMHC), Paul Tellez (Phoenix, AZ), Carl Wren (Austin, TX)

Members absent: Brian Meacham, Jeff Tubbs (alternate to Meacham)

Staff liaison: Mike Pfeiffer (arrived at 12:00 on October 4th)

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

2.0 Approve agenda

Approved.

3.0 Approve minutes of CTC Meeting #12 June 20, 2007

Approved.

4.0 Care Facilities

4.1 Working meeting - 2007/2008 cycle

a. Code changes submitted for review by CTC by others: ambulatory care facilities

John Williams handed out an updated version of his code change dealing with ambulatory care facilities. Roger Severson handed out a document concerning conflicts and inconsistencies on a state level as well as 3 additional proposals that have been submitted in the 2007/2008 cycle. CTC reviewed the Williams proposal and noted that all proposals that relate to this area of study will be on the next meeting agenda.

The discussion focused on the following issues:

- Is it a “health care facility” or just a “care facility”?
- There should be a minimum of two smoke compartments if the facility is greater than 10,000 square feet. It should be clarified that it is on a per floor basis. This section needs work.
- Does a small suite located in a large building necessitate alarms in the entire building? This needs work.
- Is the sprinkler thresholds based on fire area? This needs work.

CTC directed the Study group to review the proposal and develop modifications to address the issues noted. CTC will review the modifications at their next meeting.

4.2 Working meeting – Review of CTC Study Group Draft 1

This draft is actually Draft 2 (not Draft 1 as noted on the agenda) and needs to be revised, in part, based on the ambulatory care provisions being discussed and developed in item 4.1. Issues noted:

- Horizontal separation in a building such as a strip mall should be such that 4 offices does not trigger additional protection.
- Title of 407.2.1 is a misnomer as the issue in the section is the openness of the space to the corridor.
- Term “story of exit discharge” is not defined. This has been a problem in the code as the level of exit discharge is a plane and a story is a volume above the plane.

5.0 Child Window Safety

5.1 Working meeting - 2007/2008 cycle

a. Code changes submitted by CTC: Window fall prevention devices

It was noted that the proposed standard should read “SMA 60001 – 2002.” Staff has received comments from SMA on the applicability of the standard within the context proposed. It was also noted that the NOMMA report on guards (item 8.2) may have transferable data that should be investigated within the context of child window falls.

Action – Study group to review the applicability of the standard and review the NOMMA report. Hold for next meeting.

5.2 Study Group report/working meeting

None.

6.0 Review of NIST WTC Recommendations

6.1 Working meeting - 2007/2008 cycle

a. Code changes submitted by CTC: Emergency planning, Repeaters, Wind tunnel test

Emergency planning:

- Still a question as to location in the code. Chapter 10 is viewed as the most logical.

Action - Support.

Repeaters:

- The proposal for repeaters needs refinement.
- The exceptions are confusing and may not even be needed.
- Basis for 1000 occupant load?
- Exceptions which require the code official to make an assessment without criteria are problematic.

Action - The proposal needs to go back to the task group for review and revision.

Wind tunnel test:

- This proposal needs to include the text which stipulates that the minimum design load can not be less than the minimum prescribed by ASCE 7.

Action – Support

b. Code changes submitted for review by CTC by others: TRB follow-up code changes from last cycle (S5, E137, G7, G69, G73, F135, F221), fire fighter use of elevators, occupant use of elevators, additional exit stairs, primary structural frame for fire ratings

Transfer corridors (1021.3):

- The proposal limits the length of the passageway.

Action - Opposed.

Stairway communication (403.12.1):

- It is unclear as to what happens with the image other than sending it to an attended location.

Action – Opposed

Burnout (403.2):

- Although not stated as being a performance solution, the criteria is stated in performance language.

Action – Opposed

Exit path markings (1027.22):

- What is the basis for a 75 height threshold?
- Is there a clear hazard being abated?
- Emergency power in existing buildings may adequately address this via lighting the treads.

Action – No action.

Sprinkler reliability (403.2.1):

- Additional valves increase the chance for failure of the system
- Redundancy is provided via fire pumps and supply requirements
- Riser separation is not consistent with exit stair separation requirements in the code

Action – Oppose

Additional exit stairs (403.17): Delete section

- It was noted that there is an occupant egress elevator proposal which should be evaluated within the egress system.

Action – Consider at next meeting with the evaluation of the occupant egress elevator

Additional exit stairs (403.17): Revise section

- Consider deleting the last sentence that deals with scissor stairs.

Action – Consider at next meeting with the evaluation of the occupant egress elevator

Occupant egress elevator:

- This proposal was not included in the review package. CTC reviewed it on the screen, noting:
 - What is the basis for the AHJ to allow such designs?
 - What happens if/when the elevator is out of service?

Action – Hold for next meeting.

Fire fighter elevator proposals:

- It was noted that while these are proposals based on preliminary ASME Task Group findings, ASME is not in a position to submit them. Questions arose relative to:
 - Drain slope exceeding accessibility slope requirements
 - This proposal requires 3 fire service elevators being required while the ASME Task Group did not require three
 - What is a gasketed barrier?
 - Why are the wiring protection being raised from 1 hour to 2 hours?

Action – Hold for next meeting

6.2 Working meeting – follow-up to 2006/2007 cycle

a. Hardened exit stairs (G70, G73, New York City amendments)

- Gypsum Association also has a change in for the current cycle which referencenes ASTM C 1629 for exit enclosure robustness, based on New York City amendments

Action – consider this change and the GA change at the next CTC meeting.

7.0 Balanced Fire Protection

7.1 Working meeting - 2007/2008 cycle

a. Code changes submitted by CTC Features: Height and area, inspection, existing buildings

Non rated construction:

- Five code changes to Table 503 to reduce the height for Types IIB and IIIB in Groups B, M, (R-1, R-2, and R-4), S-1 and S-2.

Action – Support

Compartmentation code change to Ch 5. Issues:

- Height unchanged (per current Table 503); Only area is changed
- Based on IFC fire flow criteria
 - Sprinklered bldg – Area based on 2000 gpm fire flow

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- Unsprinklered – Area based on 1500 gpm fire flow
- Why isn't supporting construction rated?
- Compartmentation allows for bigger buildings. Provides passive redundancy in sprinklered buildings
- Features SG may be revising at their November meeting

Action – Hold for next meeting.

Existing building height and area:

- Whether or not a certificate of occupancy has been issued is not as critical as whether or not the building is permitted to exist. Older buildings may not have been issued a C of O.

Action – Support with a modification to replace “certificate of occupancy” with “approved and constructed”

b. Code changes submitted for review by CTC by others: Chapter 7 vertical openings

The CTC briefly discussed the proposal by Greg Keith. It was noted that Sarah Rice also put in a proposal that was more of a surgical approach to solving some of the inconsistencies viewed in Ch 7.

Action – Hold for next meeting

7.2 Study Group reports: Features, Methodology, Roof vents, Vertical openings

Features: Next meeting of Features SG is November 27 – 28. The agenda will be the review of 2007/2008 height and area related code changes.

Methodology: No recent activity. CTC needs to investigate the status of this activity to determine whether or not to continue the SG.

Roof vents: Julie Ruth reported that the roof vent testing planned for the military base in California has been cancelled. The facility is going through rehabilitation by a developer and will not be razed.

Vertical openings: No recent activity.

8.0 Climbable Guards

8.1 Working meeting - 2007/2008 cycle

a. Code changes submitted by CTC: Guards

It was questioned whether or not the proposal is intended to regulate all guards or just those that are required by code. CTC noted the intent to be only “required” guards.

Action – Insert “required” before “guards” throughout. (For part II to the IRC, remove the deletion of “required” in R 312.3). Also, delete “form a protective barrier” in Section 1013.2.

8.2 Research program presentation

Two Power Point presentations (both to be posted) were presented. Both presentations are titled “Review of Fall Safety of Children Between the Ages 18 Months and 4 Years In Relation to Guards and Climbing in the Built Environment”

Alan Hedge, via conference call, presented information relative to the Peer Review Studies, noting that 40 peer review studies have been reviewed.

- Small sample size is adequate to base a decision
- Studies did not replicate in-place conditions due to potential hazards posed to children
- Hospital data does not indicate cause of injury in terms of code application
- Boys and girls climb equally well, boys do more climbing

Tom Kenny presented information relative to: Building Codes; Terminology; and Consumer Product Safety Commission

- Looking for CTC comments prior to issuing a final report. There will also be a peer review period prior to final issuance.
- NEISS data does not identify causality
- There are approximately 60 records of injury that may be of interest - Access can be

gained to records for approx. \$100/record

Action:

- CTC recommends that the 60 records be evaluated to see if there are physical factors that impact code requirements.
- CTC will not finalize its position until the report has been issued in its final version.
- Develop draft report, pending final report issuance.

8.3 Study Group report

As noted in 8.2, a draft report is to be created for the next CTC meeting.

9.0 Old business

None

10.0 New business

None

11.0 Future Meetings

11.1 CTC Meeting #14: December 4 – 6, 2007, Chicago, including possible SG meetings
CTC Meeting #15: May 22 – 23, 2008. Preferred location Washington DC
CTC Meeting #16: August 13 – 14, 2008. Location TBD
CTC Meeting #17: October 15 – 16, 2008. Location TBD
CTC Meeting #18: December 10 – 11, 2008. Location TBD

11.2 Establish tentative meeting #14 agenda

Review all 2007/2008 code changes related to CTC Areas of Study
Modifications from SG's for: Care facilities, Repeaters, Child Window Safety
Roof vent presentations

13.0 Adjourn

The meeting was adjourned at approximately 12:00 pm on October 5th.

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

**ICC CODE TECHNOLOGY COMMITTEE
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DRAFT MINUTES

List of Attendees

Greg Keith	The Boeing Company
Diana Hanson	NADRA
Dave Cooper	SMA
Tony Leto	Wagner Companies
Julie Ruth	J Ruth Code Consulting
Sam Francis	AF&PA
Thomas Kenney	NAHB Research Center
Doug Bracken	NOMMA
Tom Zuzik, Jr.	Artistic Railings
Rich Walke	UL
Paul Simony	Acralight
Rick Thornberry	The Code Consortium
Lee Rodrigue	NOMMA
Mike Ashley	AFSCC
Tom Lariviere	IFCC
Curt Witter	NOMMA
Christine Jenks	NOMMA
Larry Jenks	NOMMA
Chris Connelly	NOMMA
Theresa Johnson	California Fire Chiefs
Raymond Kechely	NOMMA
Jeff Inks	NAHB
Ted Donovan	NOMMA
Jonathan Humble	AISI
John Woestman	WDMA
Gene Garrett	NOMMA
Mike Kechely	NOMMA
Steve Engebrectsen	NOMMA
JR Molina	NOMMA
Dave Frable	GSA
David Bueche	Hoover Treated Wood
John Williams	WA Dept of Health
Roger Severson	OR Dept of Health
Kurt Roeper	Ingersoll Rand