



**ICC CODE TECHNOLOGY COMMITTEE  
MEETING #20  
July 21 – 22, 2011**

**DRAFT MINUTES  
Four Points Sheraton Chicago O'Hare  
10249 W. Irving Park Road  
Schiller Park, IL 60176**

**Thursday, July 21: 8:00 am – 5:00 pm  
Friday, July 22: 8:00 am – 2:00 pm**

**1.0 Welcome and introductions - Chair Baldassarra**

**1.1 Call to order; introductions; welcoming remarks**

Chair Baldassarra called the meeting to order at approximately 8:05 am on July 21<sup>st</sup>, welcoming those in attendance. Carl noted that this is the first meeting of the CTC to kick off the 2012/2013 cycle of code development and that he is looking forward to not only productive CTC meetings but equally important was full participation in the Study Groups in order to pro-actively address the issues that may arise at both the CTC level and at the hearings.

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

**2.0 Approve agenda (posted)**

Move item 8.0 to last item on Thursday. Approved as revised

**3.0 Administration**

**3.1 Final Action on 2009/2010 CTC related Code Changes (posted under agenda)**

Staff noted that some of the 2012/2013 CTC activities will be follow-up activities to the final action on 2009/2010 code changes.

**3.2 CTC status update to ICC Board at December/2010 Board meeting**

Staff noted that the CTC update was on the Board's agenda as an informational item.

**3.3 Code Development Review Ad Hoc Committee recommendations (CDRAC) (posted)**

Staff noted a couple of key items:

- Code action committees to be appointed by the Board and involved in the 2012 code cycle
- Assembly action is proposed to be eliminated
- In 2013, due to the two new codes (IgCc and ISPSC), there will likely be 3 tracks of code development hearings

**3.4 2012/2013 Cycle**

**a. Group A and Group B codes**

**b. Scoping impact on Group A and B codes**

Staff noted:

- Group A in 2012; IBC, IFGC, IMC, IPC, IPSDC
- Group B in 2013: All others, including IgCC and ISPSC
- A scoping document will be posted which identifies Group A vs Group B code maintenance responsibilities which is necessary to make sure that code changes are submitted in the correct cycle.

**4.0 Elevator Lobbies**

**4.1 Working meeting – Study group presentations (posted)**

Task Group 1 research & 2 need: Dick Bukowski presented a PowerPoint on the Task Group activities, noting the importance of doing a risk assessment to support CTC activities. The TG recommends a review to include:

- Unsprinklered low- and mid-rise buildings (buildings with an occupied floor less than 55 feet above the lowest level fire department vehicle access or less than 75 feet above the lowest level of fire department access with an occupant load less than 30 on each floor. No enclosed elevator lobbies required for traditional elevators.
- Sprinklered buildings with occupied floors less than 75 feet to the lowest level of fire department vehicle access. No enclosed elevator lobbies required for traditional elevators
- Sprinklered buildings with an occupied floor more than 75 feet to the lowest level of fire department vehicle access but less than 420 feet in building height. No enclosed elevator lobbies required for traditional elevators.
- Sprinklered buildings more than 420 feet in building height. Enclosed elevator lobbies or pressurization of the hoistways required for traditional elevators.
- The design of pressurization systems for elevator hoistways shall be based on a *rational analysis* in accordance with Section 909.4.

A list of issues was developed and are included as Appendix A to these minutes. A risk analysis task group was formed.

TG 3 egress: The TG provided recommendations regarding:

- Exit access through lobbies.
- Direct access.
- Dead end corridors
- Conflicting Door swings

TG 4 Design and construction: the TG provided recommendations regarding:

- Dimensions of Elevator Lobbies
- Location of Elevator Lobbies
- Separation of Elevator Lobbies
- Pressurization of Hoistways and Elevator Lobbies.
- Roll Down Type Barriers, Sliding Doors & Additional Doors
- Gasket Systems

TG 5 standards. It was noted that there should not be any issues with the currently referenced standards.

The TG's and full Study Group will continue to work on this issue with code change drafts anticipated for the next CTC meeting.

## **5.0 Unenclosed Exits**

### **5.1 Working meeting – Study group presentations (posted)**

Ron Clements reviewed the code change proposals noted in the report. The intent of the changes was noted as:

- Relocate exit access stairs into a separate section
- Coordination between the open stairway code change from this committee for the last cycle (E5-09/10) and other changes that occurred during the same cycle.
- Areas that needed to be clarified as part of coordination.
- The committee also wanted to look at the concerns in the Public Comments to address any issues raised there that they thought may not have been covered.

Issues raised:

- 1015.2: What about unenclosed exit stairs
- 1021.1: Allows all exits to be unenclosed exit access stairs
- 1021.2: Need confirmation this is within the CTC area of study
- 1028: Needs to be cleaned up and confirmation of scope. Illustrations would be useful

The Study Group will continue its work.

## **6.0 IBC Coordination with ADAAG**

### **6.1 Working meeting**

- a. Review/update Scope & Objectives (posted)**
- b. Establish study group**
- c. Review matrix (posted)**

Discussion:

- Scope to include Title II? Review title II buildings to the extent that they fall within the scope of the I-Codes.
- No need to identify select I-Codes
- Need to resolve enforcement issues
- Need to identify of where the IBC exceeds ADAAG

CTC established a Study Group.

## **7.0 Balanced Fire Protection (BFP)**

### **7.1 Vertical openings**

- a. Working meeting – Status update**

Discussion:

- Follow-up to FS 56 last cycle
  - Look at public comments 1,2,3 and 4
- Review 2012 text and propose changes as needed

### **7.2 Roof vents**

- a. Working meeting – Status update**

Discussion:

- Follow-up to F 144 last cycle
- Status of NFPAS 204 standard?
- State of California is looking into travel distance issues

This is an IFC related issue which is Group B (2013 cycle) and the SG will gear up in 2013.

## **8.0 Care Facilities**

### **8.1 Working meeting – Status update**

- a. Updated CTC Scope vs ICC Ad Hoc Healthcare**

Staff noted that the focus of the Ad Hoc Healthcare committee was hospitals and ambulatory surgical centers. As such, CTC will focus primarily on I-1, R-4 and nursing homes. During the discussion on nursing homes, it was noted that the industry is going through cultural changes with an eye towards quality of life and a more residential environment. The review of I-1 and R-4 will include a review of occupant considerations for both capable and incapable of self preservation. It was noted that it is very important that the activities of the CTC be coordinated with those of the AHC and Code Action Committees to avoid conflict and/or duplication.

CTC expanded the current Study Group.

## **9.0 Child Window Safety**

### **9.1 Working meeting – Status update**

It was noted that E100 – 09/10 was approved for the IBC, resulting in a minimum 36' sill height. The IRC still has a 24" sill height. The CTC then discussed the issue of Child Window Safety for existing buildings. Going forward for the 2012/2013 cycle, the Study Group will be investigating and reporting back to CTC on the following:

- Window sill height in the IRC
- Child window safety for existing buildings

## **10.0 Labeling of Fire Rated Glazing**

### **10.1 Working meeting – Status update**

It was noted that FS56-09/10 was approved last cycle. Going forward the Study Group will be investigating and reporting back to CTC on any changes necessary to further clarify the provisions in Chapter 7 relative to this area of study.

## **11.0 Review of NIST WTC Recommendations**

### **11.1 Working meeting – Status update**

CTC activities on this area of study will be responding to proposals in the incoming cycle. No new CTC proposals or resubmitting of previous CTC proposals is anticipated.

## **12.0 Climbable Guards**

### **12.1 Working meeting – Status update**

It was noted that E100-09/10 was submitted to address fixed seating next to a guard. The proposal to both the IBC and IRC to address this issue was not successful. Going forward the Study Group will be investigating and reporting back to CTC on whether or not to follow-up to E100.

## **13.0 New Area of Study**

### **13.1 Relocatable modular buildings**

#### **a. Scope and objective**

Staff noted that this area of study was assigned to the CTC by the ICC Board following a Modular Building Institute (MBI) presentation to the Board. Vickie Lovell provided a PowerPoint presentation of the issues to the CTC. Among the issues noted:

- This issue is for relocatable modular buildings; not permanent modular buildings
- When a unit is moved, what are the applicable code requirements?
  - IBC Section 3410 vs IEBC Chapter 13
- Inspection parameters – how to determine code compliance for the moved unit?

CTC established a Study Group.

## **14.0 New business – Possible new areas of study**

### **14.1 NIST report of sofa store fire (posted)**

The CTC reviewed the NIST report, noting the following:

- The IFC requires sprinklers for existing buildings over 2000 sq.ft.
- The code may not have been followed
- Relationship of firefighting operations vs code requirements
- Inspections and maintenance

CTC recommended that this issue go to the ICC Board as a recommended Area of Study. The issues notes are IFC issues which is a Group B code with a code change deadline of January 3, 2013.

## **15.0 Old business**

### **15.1 Possible new area of study: Membrane structures**

**a. Follow-up to CTC Meeting #19 – agenda item 13.2 (posted under minutes)**

CTC revisited agenda item 13.2 to determine whether or not to recommend to the ICC Board that this be a CTC area of study. The CTC determined that this issue is best left to the experts in the structural community such as ASCE and as such, would not be making a recommendation to the Board.

**16.0 Future Meetings in 2011**

**16.1 CTC Meeting #21**

Tentatively slated for the week of October 10<sup>th</sup>

**CTC Meeting #22**

TBD. Early December due to scheduling issues with the Ad Healthcare and possible Code Action Committee meetings in December.

**17.0 Adjourn**

The meeting was adjourned at approximately 12:45 pm on July 22<sup>nd</sup>.

**Postings:**

**CTC website: Items 2.0, 3.1, 15.1**

<http://www.iccsafe.org/cs/CTC/Pages/default.aspx>

**Links to specific Areas of Study from CTC website: Items 4.1, 5.1, 6.0**

<http://www.iccsafe.org/cs/CTC/Pages/default.aspx>

**Code Development Review Ad Hoc Committee: Item 3.3**

<http://www.iccsafe.org/cs/AHC-CDR/Pages/default.aspx>

**NIST website: Item 14.1**

[http://www.nist.gov/el/fire\\_research/20110315\\_charleston.cfm](http://www.nist.gov/el/fire_research/20110315_charleston.cfm)

**ICC CODE TECHNOLOGY COMMITTEE**

**MEETING #20**

**Meeting Attendees**

**CTC Committee and Staff**

CTC Committee

Carl Baldassarra, Chair  
Tom Barrs  
Dick Bukowoski  
Ron Clements  
Dave Collins  
Barry Gupton  
Jim Hansen  
Wayne Jewell  
Rick Kabele  
Bill Koffel  
Ray Kothe  
Johnny McClanahan  
Ron Nickson  
William Schock  
Maureen Traxler  
Carl Wren, Vice Chair

RJA Group  
Scottsdale, AZ  
RJA Group (alternate to Baldassarra)  
Chesterfield, VA  
Preview Group; Rep: AIA  
North Carolina Department of Insurance  
New York City Fire Department  
Southfield, MI  
Alliance for Fire & Smoke Containment & Control  
Koffel Associates  
Kothe Contracting & Construction Mgmt; Rep: NAHB  
Columbia, TN  
National Multi Housing Council  
San Leandro, CA  
Seattle, WA  
Austin, TX

Staff

Lauren Crane  
Tom Frost  
Kim Paarlberg  
Mike Pfeiffer

**Interested Parties**

Richard Schulte	Schulte Assoc.
Robert Davidson	Davidson Code Concepts/NASFM
John Woestman	The Kellen Co
Julie Ruth	AAMA
Sarah Rice	SRice Consulting
Thom Zarembo	Roetzel & Andress
Vickie Lovell	Intercode Inc.
John Valiulis	Hilti, Inc
Robert Perry	Door and Hardware Institute
Dave Frable	GSA
Bill Ziegert	Smoke Guard, Inc.
Mike Perrino	Code Consultants, Inc.
Gregory Keith	Boeing Company
Dave Tyree	BOMA
Ken Isman	NFSA
Tim Burgos	Intercode Inc.
Jeri Morey	Jeri Morey, Arch.
Bill Fitch	Phyrefish
Nancy McNabb	NIST
Paul Coats	AWC
Margaret Collins	Pioneer Network
Tom Jaeger	AHCA

## **Appendix A Elevator Lobbies**

### RISK ASSESSMENT TASK GROUP – ASSUMPTIONS – NO MODELLING AT THIS TIME

- ASSUME BUILDINGS MEET CODE?...NO. RISK ASSUMPTIONS NEED TO ASK THE QUESTIONS OF “WHAT IF”. IF BLDG MEETS CODE, NO HAZARD TO ADDRESS...THE SYSTEMS WORK
- SFPE SENSIVITY ANALYSIS
- RISK ANALYSIS REQUIRES PROBABILITY TO BE ASSIGNED TO EVENTS/BOUNDARY CONDITIONS
- FIRE FREQUENCY
- BOUNDARY CONDITION – FREQUENCY OF FIRE; BLDG GEOMETRY EXTREMES – OPEN PLAN VS CORRIDOR; SMALL FLOOR PLAN WHERE SMOKE BUILDS FASTER VS LARGER PLAN
- FIRE LOAD BASED ON OCC
- TIME TO EXIT BASED ON OCC
  - SAFETY FACTOR?
  - PRE MOVEMENT TIME
- STACK EFFECT FLOW – HOW MUCH TO ASSUME...TO DATE 4500 CFM ASSUMED...OUTSIDE TEMPS
- DESIGN BASIS FIRE – CONTROLLED OR UNCONTROLLED OR BOTH
  - PLAZA HOTEL FIRE
  - NIST OFFICE CUBICLE
  - IBC DESIGN FIRE FOR SMOKE CONTROL
- TENEBILITY CRITERIA
- FIRECAM CRITERIA
- STAIRWAY LEAKAGE
- SPRINKLERED BLDG – FULLY SPRINKLERED THROUGHOUT PER 903.3.1.1
- COMPONENT RELIABILITY – SPRINKS, DOORS, FIRESTOP, FIRE RATED ASSEMBLIES, JOINTS
- OCCUPANCY CONDITION – WHICH ONES – B? R-1/R-2 (SLEEPING ROOMS)?
  - I – DEFEND IN PLACE
  - A – HIGH OCC LOAD DENSITY
  - M – HIGHER FUEL LOAD
- LIMIT CODE CHANGE /RISK ANALYSIS TO NEW BUILDINGS