



ICC CODE TECHNOLOGY COMMITTEE

BALANCED FIRE PROTECTION – VERTICAL OPENINGS STUDY GROUP

May 20, 2008

DRAFT MINUTES

Four Points Sheraton BWI Airport
7032 Elm Road
Baltimore, MD 21240
(410) 859 - 3300

May 20: 1:00 am – 5:00 pm

1.0 Welcome and introductions – Vice Chair Boyer

The meeting was called to order at approximately 1:00 pm.

The following study group (SG) members were in attendance: Bob Boyer, Wade Hill, Greg Keith, Vickie Lovell, Bill McHugh, Sarah Rice, Kurt Roeper, Rich Walke.

Interested parties in attendance: John Valiulis, Amanda Hickman, Tony Crimi, Jim Messersmith, Jay Hall, Same Francis, Dave Collins, Rick Thornberry, Bob Davidson, Mike Ashley, Dave Dratnol.

2.0 Approve agenda

Approved

3.0 Determine if SG will submit public comments to 2007/2008 BFP VO related code changes for CTC consideration. Develop public comments, if any

a. FS 118

The code development hearing action on this proposal was As Submitted. In response to the committee action, members of the SG noted:

- The revised section numbering makes sense from a design and enforcement perspective
- May be costly to implement by the affected industries due to literature having to be revised to reflect the new section numbering

A motion was made and seconded to support the AS. It was decided to hold the vote until all 3 code changes were discussed.

b. FS 161

The code development hearing action on this proposal was for Disapproval. Hold discussion until after FS 162.

c. FS 162

The code development hearing action on this proposal was for Disapproval. Discussion:

- The draft public comment to the code change responds to issues raised at the Code Development Hearing and the discussion and input received at the April 14th meeting at UL.
- It is difficult to understand what exactly Ch 7 will look like.

A motion was made and seconded to suspend the activity for the current cycle and focus on the next cycle for the following areas:

- Definitions
- Format
- Technical
- Migration limits

The motion passed.

4.0 Develop bullet point report to the CTC on the status of the VO SG, including public comments in item 3.0

After discussion on the three subject code changes and the approved motion on FS 162, a motion was made, seconded and passed to notify the CTC that the SG will not be making a recommendation on FS 118 and FS 161 (in addition to FS 162 noted above).

See SG developed the following to be presented at the CTC meeting:

Scope: 701, 702, 704 – 717 w/in scope

Outside of scope: Test protocol (703), 718 plaster, 719 insulation, 720 & 721 ratings

Ch 7 broad issues:

- **Format (F)**
- **Definitions (D)**
- **Technical requirements (T)**
- **Migration limits (M)**
- **Other issues (O)**

Task groups:

Format: 4, 12, 15

Non regulated issues: 1, 2, 3, 13, 14

Clarity 5, 6, 10, 11, 18, 19

Design features 7, 8, 9, 16, 17

Ch 7 specific issues:

1. T : Horizontal assemblies currently in Ch 7 are, by definition, rated. What do you do with non rated roof and floor assemblies?
2. T/F: What do you do with non rated wall assemblies?
3. T: What to do with openings in assemblies req'd to be rated only per T 601. Bearing wall in T601 is rated – openings req'd to be protected?
4. T/F: Do loops/dead ends in Ch 7. FS 161 was intended to start to fix the problems, such as:
 - 712.4 says go to 707; 707.8 says go back to 712; 707.2 # 3 sends you back to 712.4
 - 716.1 says it governs unless need to go to 712 but 712 sends you back to 716
 - 712.4.2 says “go to 707 or comply w/ this section”....nothing in 707
 - 712.4.1.2 deals with horiz assemblies and Except #1 deals with walls
5. D/T: Difference between an opening, penetrations, joint and duct/air transfer openings?

- Can a stair be called a penetration? An opening?
- 6. D/T: Defn's for flame stop, fire stop, fire blocking, draft stop
- 7. T/F: Penetrations in concealed vs unconcealed locations
- 8. T: Membrane penetrations – E 5 standard.....712.3.2 & 712.4.1.2
- 9. T: 100 sq in/ 100 sq ft.....100 sq ft can be a strip 1 ft by 100 ft
- 10. T/F/D: Penetration types: through, partial (ie confined within hollow core slab), membrane
- 11. T: Look at exceptions to 707.2 and clarify.
- 12. F: Where to keep the atrium provisions? ..just another type of floor opening
- 13. T: 710 smoke partitions – tie it to specific sections which are req'd to be smoke partitions. What's a barrier to the transfer of smoke in I-2. Corridors require smoke partitions. Incidental use and smoke partitions.
- 14. T: Joints in non rated floors.
- 15. F; Consistency in the title and formats of the 4 sections concerning: openings, joints, ducts, penetrations
- 16. T: How to verify structural integrity of horizontal openings in 711.4
- 17. T: Assume a convenience stair is permitted. How about unprotected openings x feet away from the stair opening – need to protect the openings? Why protect the openings when you have this large hole which allows free passage?
- 18. T: Number of floors connected and the rules for compliance. Do the rules need to be consistent across the board. Are they considered “unprotected”? Each of the following allow for greater than a 2 floor connection:
 - Escalator openings
 - Ducts in non rated assembly in 716
 - Atrium
 - Convenience stairs
 - NC items penetration of non rated floor – 3 floors
 - Ducts less than 3 stories rated or non rated floors
 - Mezzanines
- 19. D: Definitions in Ch 7 vs definitions in referenced standards - consistent

5.0 New business
None

6.0 Future meetings and Assignments
None. Depends on direction offered by the CTC.

7.0 Adjourn
The meeting was adjourned at approximately 5:15 pm.

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