FCIA ICC/NFPA 2015 Code Development Cycle

Prepared by:
William E. Koffel, P.E., FSFPE
Overview

- ICC Code Development Cycle
  - FCIA Proposals
  - ICC Ad Hoc Healthcare Committee
  - Other proposals of interest
- NFPA 1/101/5000 Code Change Cycle
ICC Code Development Cycle

• The groups of code change hearings
  • 2015 – Group A – most of the building code other than structural
    • Code Development Committee hearings – April 19 – April 27
    • Remote voting starts May 14
    • Public Comments due – July 17
    • Final Action Hearings – Sept 30 – Oct 7
    • Remote voting has been delayed due to polling device problems
  • 2016 – Group B – IFC and IRC
  • 2017 – Group C – may not exist
FCIA Proposals for ICC Group A

• E 112 – Permits security system wiring to penetrate exit enclosures when in electrical raceway and properly protected
  • Committee Recommendation – Approval as Submitted
  • FCIA submitted Public Comment to include exit passageways
  • Final Action – Approved as Modified by the FCIA PC
FCIA Proposals for ICC Group A

• FS 55 and FS 70 – Adds language to require penetration systems and joint systems to be installed in accordance with manufacturers instructions and listing criteria
  • FS 70 also deleted language about “dislodge or loosen” for joint systems
• Committee Recommendation
  • FS 55 – Approval as Modified – added membrane penetrations
  • FS 70 – Approval as Submitted
• Final Action – both were approved with one editorial revision to FS 55 to eliminate “securely”
FCIA Proposals for ICC Group A

• FS 5 – Added a requirement to “mark” penetration and joint systems where barriers need to be marked.
FCIA Proposals for ICC Group A
FCIA Proposals for ICC Group A

- FS 5 – Added a requirement to “mark” penetration and joint systems where barriers need to be marked.
  - Discussion – Opposing testimony focused on cost, location (where to put it), durability of marking system, number of penetrations
  - Committee Recommendation – Disapproval (8-5)
    - Original motion was for approval but failed
    - One Committee member was concerned about the electronic system but several did not think it was needed
- Future Action
  - Public Comment although challenging to get 2/3’s support
  - Place the requirement in a standard
- Product availability
FCIA Proposals for ICC Group A

• FS 54 – Requires qualified contractors in Group I-2
  • Discussion
    • Possible ASHE support but AHC voted to passively oppose
    • No testimony from health care industry
    • Opposing testimony focused on state licensing requirements, may expand to other uses, did not address other IEBC compliance methods, prefer special inspections, code officials to not want to qualify contractors
  • Committee Recommendation – Disapproval
  • Future Action
    • Place the requirement in a standard
FCIA Proposal for ICC Group A

• FS 60 – Requires floor penetrations protected with non-listed systems to be in a concealed space
  • Discussion - Opposing testimony focused on roundabout way to require T-ratings, lack of data demonstrating a problem, and lack of a concealed space for many floor assemblies
  • Committee Recommendation – Disapproval

• Future Action
  • Decision made not to submit Public Comment
  • Resubmit next cycle?
FCIA Proposal for ICC Group A

• What did we learn?
  • The industry is in need of a standard to address the installation of through penetration firestop systems and joint systems
    • Options
      • NFPA 80
      • NFPA 221
      • A new standard
  • Special inspections seem to be preferred over qualified contractors
    • Expansion of current provisions will meet considerable resistance
    • Incentives to use qualified contractors
Ad Hoc Healthcare Committee Proposals

• Smoke barrier size
  • Prior to 2015 IBC – limit was 22,500 sq. ft. with 200 ft. travel distance
  • 2015 IBC – limit is 40,000 sq. ft. with 200 ft. travel distance
    • Based on increased areas required for treatment and sleeping areas

• Proposal from AHC to reduce to 31,400 sq. ft.

• Other proposals to
  • Go back to 22,500 sq. ft.
  • Allow 40,000 for select treatment areas, allow 35,000 for single bed sleeping room compartments, and 22,500 for all others
Ad Hoc Healthcare Committee
Proposals

- Prior to hearing the item, agreement to continue to allow 40,000 sq. ft. for treatment suites and 40,000 sq. ft. for sleeping compartments with single bed rooms and suites
  - Chair ruled modification out of order
- I submitted a modification to apply 40,000 sq. ft. to non-sleeping smoke compartments – no motion made
- All proposals failed

Future Action

- Public Comment submitted by multiple parties
- Final Action – 40,000 sq. ft okay if private rooms for sleeping or compartment does not include sleeping rooms
Other Proposals of Interest

• Fire Safety Committee
  • Other than what was identified above, all other proposals from firestop industry were disapproved
    • One addressed noncommunicating studs spaces or staggered studs
    • One added requirement to protect penetrations in exterior walls
    • Several changes regarding joints
  • Two UL proposals were approved, one with a modification
    • Listed electrical light fixtures may penetrate ceiling membranes
    • Clarification that penetrations must be protected with listed materials or systems
  • Wetted glass – Two proposals and both recommended for Disapproval
    • One to revise the language
    • One to delete the language
Other Proposals of Interest

• Means of Egress Committee
  • Proposal to eliminate membrane penetrations on the outside of exit enclosures – Proposal was Approved as Modified by retaining the exceptions

• General Committee
  • Proposals to eliminate elevator lobby enclosures are recommended for Disapproval
ICC Code Development Cycle Summary

- No reductions in requirements for compartmentation
- No increases in requirements for compartmentation
- The firestop industry needs an installation standard
- Unresolved issues:
  - Joints
  - Communicating stud spaces
    - By a horizontal distance of not less than 24 inches (610 mm) where the wall or partition is constructed with individual noncommunicating stud cavities...
- Long term (next cycle)
  - Editorial revision of the penetration and joint sections
NFPA 1/101/5000 Cycle

• Critical Dates
  • July 6, 2015 – Deadline to submit Public Proposals
  • July 27-31, 2015 – Core Chapter Committees met
  • August 24-28, 2015 – Occupancy Chapter Committees met
  • November 16 – Ballot deadline
  • May 16, 2016 – Deadline to submit Public Comments
NFPA 1/101/5000 Cycle

• First Draft Revisions
  • Maintenance and inspections of passive fire protection features
    • Submitted to NFPA 1 – tentative approval in part
  • Marking of fire/smoke barriers
  • Joint system required at head of wall with non-rated floors/roofs
  • L rating required for penetrations of smoke barriers in new construction

• Other First Drafts
  • Similar to ICC proposals
  • 40,000 sq. ft. smoke compartment approved essentially the same as the IBC change.
Introduction

- *Life Safety Code®, NFPA 101®*
Suites

- New design
- Application to existing arrangements
Egress Through Adjoining Suites

- Two means of egress required
- One can be through adjoining suite

Paragraphs 18/19.2.5.7.2.2(C) and 18/19.2.5.7.3.2(C)
Suite Intervening Rooms

- Eliminates the limit on the number of intervening rooms in both sleeping and non-sleeping suites

- 100 ft distance to an exit access door, regardless of the number of intervening rooms

Paragraphs 18/19.2.5.7.2.4(A) and 18/19.2.5.7.3.4(A)
Sleeping Suites
• Limited to 7500 ft²

OR

• Greater than 7500 ft² and not exceeding 10,000 ft² shall be permitted where both of the following are provided in the suite:
  – Direct visual supervision
  – Full automatic smoke detection

Paragraph 18.2.5.7.2.3
Direct Supervision
Sleeping Suite Size - Existing

- Not exceed 5000 ft\(^2\)
- Not exceed 7500 ft\(^2\) where smoke compartment has:
  - sprinkler system and complete smoke detection OR
  - sprinkler system with QRS or residential sprinklers
- Greater than 7500 ft\(^2\) not exceeding 10,000 ft\(^2\) where:
  - Direct visual supervision AND
  - Total coverage (complete) automatic smoke detection AND
  - Sprinkler system protection with QRS or residential sprinklers
2000 Edition Sleeping Suite

Sleeping Suite
5,000 sq. ft.
Sleeping Suite
7,500 sq. ft.

2012 Edition Sleeping Suite
2012 Edition Sleeping Suite

Sleeping Suite
10,000 sq. ft.
Non-sleeping Suites

• No increases in size
• Intervening rooms
• Adjoining suite egress

Paragraph 18/19.2.5.7.3
Questions?

William E. Koffel, P.E., FSFPE
(Registered in DC, MD, NY, OH, PA, VA, WA)
wkoffel@koffel.com

Koffel Associates, Inc.
8815 Centre Park Drive, Suite 200
Columbia, MD 21045-2107
410-540-9008
www.koffel.com

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