FCIA ICC/NFPA 2015 Code Development Cycle

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Overview

• ICC Code Development Cycle
  • FCIA Proposals
  • ICC Ad Hoc Healthcare Committee
  • Other proposals of interest
• NFPA 1/101/5000 Code Change Cycle
• Will this session:
  • Engage?
  • Inspire?
  • Inform?
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
  • 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
  - Future Action – Possible Public Comment for exit passageways
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
• Future Action – Monitor
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
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
  • Public Comment although challenging to get 2/3’s support
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
  • Egress modeling study to evaluate impact on time to relocate patients
  • Public Comment likely based upon results of the study
Other Proposals of Interest

• Fire Safety Committee
  • Other than what was identified above, all other proposals from firestop industry were disapproved
    • One addressed noncommunciating 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 – Deadlines to submit Public Proposals
  • July 27-31, 2015 – Core Chapter Committees meet
  • August 24-28, 2015 – Occupancy Chapter Committees meet
NFPA 1/101/5000 Cycle

• Proposals???
  • Special inspections
  • Qualified contractors
  • Marking of systems
    • NFPA 101/5000 do not require marking of the fire/smoke barriers
  • Maintenance and inspections of passive fire protection features

• Proposals from others???
  • Similar to ICC proposals
  • ASHE is likely to submit a proposal to increase area of smoke compartment from 22,500 sq. ft.
Do You Want?

• Requirements/incentives for qualified contractors
• Marking system for penetrations/joints

• If the answer is yes,
  • There needs to be an installation standard for penetrations and joints
    • Won’t impact codes until the 2021 Edition
  • Adopt at State level
  • Rely on design specifications or standard of care for general contractors
Questions?

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