2012 Edition of NFPA 101

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Ohio Hospital Association

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2012 Life Safety Code

CMS Waiver Letters

• Partial adoption of specific items
• March 9, 2012 letter
• August 30, 2013 letter

2012 Life Safety Code

• Full changes of NFPA 101 allowed when it is officially adopted by CMS/TJC/DNV
2012 Life Safety Code

• Once CMS adopts The Joint Commission & DNV will also adopt 2012 LSC
• Expected to be adopted in 2014
• CMS must do cost impact study of changes from 2000 to 2012 edition
• CMS requires 2012 edition approval from Congress
CMS Waiver Letter S&C-12-21-LSC

CMS Letter of March 9, 2012

• Means of Egress – Corridor storage
• Cooking Facilities – Nursing unit location
• Fireplaces
• Combustible Decorations
Means of Egress

Chapters 18/19.2.3 & 18/19.2.3.4

Previously restricted items now allowed:

- Wheeled equipment parked in corridor, provided there is 5 feet of clearance (patient lifts & transport equipment mentioned, others possible)
- Fire plan must address wheeled items in corridor
- Fixed Furniture – bench seating (limited to 2 feet deep) now allowed in corridor
- On same side, not more than 50 sq.ft area, 10 feet between benches
Cooking Facilities

Chapters 18/19.3.2.5

Plus 18/19.3.2.5.2 thru 18/19.3.2.5.5

Nursing unit kitchen not hazardous & allowed to be opened to the corridor, provided:

- Only one open kitchen per smoke zone
- No deep fat fryers
- Include shut off device for fuel supply
- Grease baffles installed in exhaust system
- No solid fuel (i.e. charcoal)
- Additional cooking area must be in protected room similar to hazardous area
Cooking Facilities continued

- For 30 or fewer patients
- Suppression system required on cooktop
- Minimum 500 cfm exhaust
- Interlock to shut off electric or fuel
- Locked switch to deactivate cooktop
- Timer to deactivate cooktop in 120 minutes or less
- Appropriate Type K fire extinguishers
Fireplaces

Chapters 18/19.5.23(2), (3), and (4)

- Direct vent gas fireplaces allowed in smoke compartments containing patient sleeping rooms
- Not allowed inside a patient room
- Smoke compartment must be sprinklered
- Carbon monoxide monitors are required
- Solid fuel burning fireplaces in areas other than patient sleeping areas, with one hour rated barrier between fireplace and sleeping rooms
Combustible Decorations

- Chapters 18/19.7.5 & 18/19.7.5.6
- Furnishings, Mattresses, and Decorations
- Now allows installation of combustible decorations on walls, doors and ceilings
- Amount of coverage on wall depends on level of sprinkler coverage
Medical Gas Master Alarms

• Two master alarms required per 1999 edition of NFPA 99 (Healthcare Facilities Code)
• New waiver allows use of later edition of NFPA 99 which permits a centralized computer system to be substituted for one of the 2 master alarms required.
• Reference: Section 5.1.9.4 of the 2012 edition of NFPA 99
Openings in Exit Enclosures

- Door opening in stairwell landing to unoccupied mechanical room is now allowed.
- For non fuel fired mechanical equipment
- No storage of combustible items
- Located in sprinklered building
- Reference: Section 7.1.3.2.1(9)(c) of the 2012 edition of NFPA 101
Emergency Generators

- Diesel powered generators have had a requirement per NFPA 110 for a load bank test if monthly load bank tests fell below 30% of load.
- 2 hour load bank test of 25% first 30 minutes, 50% next 30 minutes, and 75% for 60 minutes.
- Now 90 minute test is allowed with 50% for first 30 minutes and 75% for next hour.
- Reference: Section 8.4.2.3 of the 2010 edition of NFPA 110.
Door Locking Arrangements

2000 edition of NFPA 101 only allowed for clinical needs (Psychiatric, Alzheimer, Dementia Units)

- Now will also allow for security risks (such as newborn nursery or pediatric units) and patients needing specialized protective measures for their safety
- Delayed egress locks were limited to one in exit pathway
- Now more than one delayed egress lock allowed
- Reference: Sections 18/19.2.2.2.2 thru 18/19.2.2.2.2 and 18/19.2.2.2.4 of 2012 edition of NFPA 101
Suites

- Past limits on egress routes & sizes
- Now one exit from a suite may exit through another suite
- The other exit may be into an exit stair, exit passageway, or exit door to the exterior.
- Suite size for sleeping rooms increased to 10,000 square feet.
- Reference: 18/19.2.5.6 of the 2012 edition of NFPA 101
Extinguishing Requirements

• Past requirements for weekly churn test of fire pump (electric) and quarterly testing of water flow alarms
• Fire pump (electric) churn tests now only once a month
• Water flow alarm tests now only semi-annual
• References: Sections 5.3 and 8.3 of the 2011 edition of NFPA 25
Clean Waste & Patient Record Recycling Containers

- Past limit of 32 gallon trash container outside of hazardous storage area and not attended
- 96 gallon size recycling containers now permitted for clean waste or patient records awaiting destruction
- Reference: 18/19.7.5.7.2 of the 2012 edition of NFPA 101
Summary

- Revise policy and procedures related to the waivers
- Submit the information and request the waiver at the opening of the CMS inspection survey
- Joint Commission - Document in Additional Comments section of BBI of the SOC that you are using the specific waiver(s).
- Approve in EOC Committee.
Major Changes Allowed With 2012 LSC

- Soiled linen and trash collection rooms not required to have 1 hour rating if they contain no more than 64 gallons of soiled linen or trash.
- Gift shops are not hazardous areas, even with display of combustible items.
- Hazardous areas inside non-sleeping suite not required to be separated if entire suite is classified as hazardous.
Major Changes Allowed With 2012 LSC

- Egress door locks now permitted (with requirements) for patients with “special needs” and do not have to qualify as “clinical needs”
- Multiple delayed egress locks now permitted in paths of egress
- Power operated doors not required to latch when closed if 5 pounds of force is required to open the door in direction of travel
- Roller latches allowed (with 5 pounds of pull) in two way swinging doors in psychiatric settings
Major Changes Allowed With 2012 LSC

Manual Sliding Doors to Patient Rooms

• Horizontal sliding doors permitted with occupant load fewer than 10 persons
• No breakaway operation needed
• Corridor doors still need positive latching and smoke limiting requirements
• Suite locations not required to latch
Sleeping Suites

- Maximum size increased to 7,500 square feet with QRS sprinkler heads or if standard sprinklers and smoke detectors
- Maximum size to 10,000 square feet with direct supervision of normally attended location (nursing station) and equipped with QRS sprinklers and smoke detectors
2012 LSC - Suite Exit Requirements

- Travel distance maximum of 150 feet between room door and exit is eliminated
- One exit door must open to egress corridor
- Second exit may now exit through adjacent suite, exit stairwell, exit passageway, or director by an exterior door to the outside
2012 LSC - Suite Separation

Separation now defined

- Partitions required
- Limit the transfer of smoke
- Doors with positive latching
- Doors that prevent the spread of smoke
Door Locking Arrangements

Delayed Egress and Access-Controlled door using electric mag locking systems are not required to release on activation of fire alarm by pull stations, which would defeat the intent of these systems (7.2.1.6).
2012 LSC Alcohol-based Hand Wash Dispensers

- One dispenser per room or suite not included in the aggregate total capacity of ten gallons per smoke compartment
- Aerosol foam dispenser limited to 18 ounces with total of 1,135 ounces per smoke compartment (63 dispensers)
- Gel dispenser (1 liter) maximum of 37 per smoke compartment
- Not located above electrical source, but can now be within 1 inch on the side
2012 LSC New Non-occupied Area Requirement

• Greater than 45,000 square feet
• Greater than 90,000 square feet if sprinklered
• New minimum requirements:
  • Headroom must be at least 6 feet 8 inches
  • Exit path minimum of 28 inches wide
  • Exit signage required
  • Exit lighting required
  • Minimum of 2 exits from the area
2012 LSC New Egress Stair Requirements

- New stairwells in buildings with a cumulative occupant load of 2,000 or more people must have 56 inch wide stairs.
- Previous requirement was 44 inches wide
- Due to attack on World Trade Center
- Allows counter flow on stairs (up and down traffic) to evacuate multiple floors at the same time
Stairwell Signage

2000 edition of NFPA 101 required

- Name of Stairwell (A Stairs)
- Floor level
- Top and bottom stair terminations
- Direction to the exit
- Level of the exit
Stairwell Signage (continued)

7.2.2.5.4.1 Revised with new requirements

- Illumination by reliable source
- Floor level of sign must be tactile (ADA)
- Stairwell identification letters at top 1 inch minimum
- “NO ROOF ACCESS” listed under stairwell identification if applicable
- Floor level in middle of sign 5 inches high
Stairwell Signage (continued)

• M for mezzanine and B for basement before floor level if applicable
• Lower & upper termination level must have 1 inch minimum height letters
• 3 stories or more in height (was 5 in 2000 edition)
• Possible exemption by AHJ regarding new signage?
2012 LSC Ambulatory Care Occupancy Revision

- The 2012 LSC edition will allow clinics, physical therapy, and similar facilities contiguous to healthcare occupancy to be used for diagnostic and treatment services of inpatients who are capable of self-preservation.
2012 LSC - Hospital Closets

- Sprinklers no longer required in patient room closets of less than 6 square feet
- Also coordinated in both newer editions of NFPA 13 and NFPA 99
2012 LSC Sprinkler Systems Requirements

- Existing high rise hospitals must be fully sprinklered in 12 years
- High Rise = 75 feet high from lowest level of fire department access to top occupied floor (Penthouse mechanical rooms would not be applicable in measuring height)
- Existing nursing homes must be fully sprinklered
QUESTIONS?
Mission Statement

Our Mission Is to Advance, Protect, and Reward the Practice of Good Medicine

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