



2009 Connecticut Code Updates

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Presented by

Lisa R. Humble, AIA, NCARB

State Building Inspector
Office of the State Building Inspector

&

Terry A. Brouwer

Bureau of Engineering
Office of State Fire Marshal

Division of Fire Emergency and Building Services
State of Connecticut, Department of Public Safety

2009 Amendments to the 2005 State Fire Safety Code

effective August 1, 2009

Presented by

Terry Brouwer OSFM

Disclaimer

□ This presentation covers only the highlights of "important" changes to the 2005 State Codes.

- Available @ State Building Inspector's web site www.ct.gov/dps/
- E-mail terry.brouwer@po.state.ct.us

Legal Format Issues

□ (NEW) (Del) **906.4 Cooking grease fires.** Delete section.

- This is a new addition which deleted the IFC text for Section 906.4 in Pt III, thus **Strike out the IFC text**

~~906.4-Cooking grease fires- Fire extinguishers provided for the protection of cooking grease fires shall be of an approved type compatible with the automatic fire extinguishing system agent and in accordance with Section 904.11.5.~~

Legal Format Issues

□ **Chapter 23** of the Connecticut State Fire Safety Code is amended to read:
[(Del) Delete chapter.]

- The deletion of a Ct Amendment which previously deleted a section means the restoration of the original text, thus we have adopted the provisions of IFC Chapter 23 **High-Piled Combustible Storage**

Unlegal ~ Easy Read version

□ **NEW Chapter 23 High-Piled Combustible Storage**

Delete CT amendment from 2005 Connecticut State Fire Safety Code thus adopting chapter in whole.

~~{Del} Delete chapter.~~

CSFSC Pt I Administration/IBC

- Portable grandstands or bleachers under 100 occupants exempt from permit must be outside building
- New: Federal agencies exempt from building and demolition permits
 - Post offices, courthouses, prisons, etc.
 - On owned or leased land

Other CSFSC Administration

- Pt I – Decision of LFM may be appealed to OSFM as AHJ for CSFSC
- Pt I – Frequency of Inspections
 - Yearly ~ All R, A-1, A-2, E, H-1, I-1
 - Two years ~ A-3, H-2, I-2, I-3, I-4, B-Medical, B-College
 - Three years ~ B, H-3, M, S-1, A-4, A-5
 - Four years ~ F-1, F-2, H-4, S-2, U

Other CSFSC Administration

- Pt II – Referenced standards
 - Only to extent called for by code
- Pt III – When using Alternative Compliance (*IBC Chapter 34 or IEBC*)
 - Those portions not affected shall comply with Part IV
 - Alterations
 - Addition
 - Change of Occupancy

CFSC 29-292-15e
Alternative Compliance

- Related SBC Administration Amds
 - IBC Chapter 34 & IEBC
 - MOE in existing buildings must meet Part IV of CSFSC
 - IBC Chapter 34
 - Free pass on existing stairways now limited to max. riser height and min. tread depth

CFSC 29-292-15e
Alternative Compliance

- Related SBC Administration Amds
 - IEBC Chapter 8 – Change of Use
 - Fire sprinkler systems & Fire alarm and detection systems
 - *Must meet IBC/CSFSC Pt III for new occupancy*

CSFSC - Pt III Chapter 2
IBC – Chapter 3

- Group B:
 - Includes non-accessory spaces used for assembly purposes by fewer than 50 persons
 - Includes “Training and skill development not within a school or academic program”
 - In home business occupancies in a one-family home w/ maximum 1 non-resident employee are R-3 or can use IRC

CSFSC – Pt III Chapter 2
IBC – Chapter 3

- Consumer fireworks: follow NFPA 1124-2006 for fireworks sales over exempt amounts
 - CT restricts amount stored
 - See also CSFSC Pt V Chapter 20
 - Group R: R-3 (and IRC) allows up to 5 lodgers or boarders where personal care is ***not*** provided
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CSFSC – Pt III Sec 401.4
IBC – Sec 404

- Smoke control scoping simplified:
 - Not required in two-story atriums.
 - Required in covered malls of 2 or more stories.
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CSFSC – Pt III Chapters 4 & 8

- Chapter 4 adds references to SBC for:
 - Alternative compliance – group homes (R-4) with 4-6 clients
 - Organic coatings
 - Application of flammable finishes
 - Mezzanines
 - Chapter 8 adds reference to SBC for interior floor finishes and coverings
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CSFSC – Pt III Chapter 9
IBC – Chapter 9

- A-2: Added sprinkler exemption for restaurants built as A-3 that increase fire area up to max. 12,000 s.f.
- Vertical openings – overrides NFPA 13 requirement for draft curtains and closely spaced sprinklers where openings are permitted to be unprotected by CSFSC/SBC
 - Unless being used in lieu of rated enclosure

CSFSC – Pt III Chapter 9
IBC – Chapter 9

- R: sprinklers required if R introduced by change of occupancy or addition
 - Not required by repair, alteration or addition to exist. Group R provided not required by previous code or other sections
 - 4 stories or less going from 1 or 2 Family / R-3 to R-2 (4 units max) – can't increase height or area & direct exits
 - Existing R-3 to R-2 conversions prior to 6-15-94 with max 4 units
 - Sprinklers req. in addition only if 1-hour separation from new to existing

CSFSC – Pt III Chapter 9
IBC – Chapter 9

- R-4: 13D system permitted if:
 - No mixed occupancy in building
 - 6 or fewer occupants excluding staff
 - 2-stories, 40' max. height limit
 - 30 minute water supply provided
 - All habitable and usable areas, including closets, must be sprinklered
 - Meet valve supervision requirements

CSFSC – Pt III Chapter 9
IBC – Chapter 9

- Clarify 13R system can be used only in buildings up to and including 4 stories *above grade* and 60' in height
 - Cannot be used in mixed occupancy buildings except those that comply with Section 508.2 with Group R above the horizontal separation
 - Smoke & heat vents not required with ESFR sprinklers
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CSFSC – Pt III Chapter 9
IBC – Chapter 9

- Water supply for standpipe systems
 - Piping sized for 100 psi residual at topmost hose outlet with 150 psi at FD connection
 - Water supply need not provide 100 psi residual at topmost outlet in sprinkled building and floor level less than 150 ft in height
 - Emergency or standby power for fire pumps – IBC Sec. 2702.14, 15 & 20
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CSFSC – Pt III Chapter 9
IBC – Chapter 9

- Emergency or standby power for fire pumps
 - IBC Sec. 2702.14 ~ High-rise bldgs
 - IBC Sec. 2702.15 ~ Underground bldgs
 - IBC Sec 2702.20 ~ standby power required for electric fire pumps in buildings with standby power for purpose of continuing occupancy or operations
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CSFSC – Pt III Chapter 10
IBC – Chapter 10

- Clarify min. ceiling height in MOE (except stairs) is 7'-6"
 - New: security devices that emit any medium (ie: smoke) that obscures MOE prohibited
 - New: Mirrors shall not be placed on or adjacent to exit doors
 - New: Day care occupancies: 1 occupant per 35 s.f. net
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CSFSC – Pt III Chapter 10
IBC – Chapter 10

- New: MOE emergency illumination shall operate upon:
 - Failure of utility or outside power supply
 - Opening of breaker or fuse
 - Accidental opening of switch controlling normal lighting
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CSFSC – Pt III Chapter 10
IBC – Chapter 10

- Accessible MOE – determined by BO
 - New: Intermediate handrails only required for stairs exceeding 75 inches - still only req. within 30" of *required* width
 - Floor Proximity Exit Signs
 - Certain occupancies
 - Only @ Exit access & Exit doors where normal exit signs required
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CSFSC – Pt III Chapter 10
IBC - Chapter 10

- B&B guards must be min. 36" high with max. 6" space
- 50% Group M MOE may travel through stockroom with restrictions
- New: exit discharge doors must be remote when 2 or more required
- Rescue windows: added exception to 44" maximum sill height for compliant permanent platform or steps

CSFSC – Pt III Chapter 10
IBC – Chapter 10

- Simplifies language re: Assembly Main Exit:
 - Applies to new construction; increase in occupants; or change of occupancy
 - If you have a single main entrance, it must also be the main exit and accommodate not less than 2/3 of the calculated occupant load

CSFSC Pt III / IBC
New Section 1026

- Floor Proximity Egress Path Marking
 - Mandated by by PA 06-162
 - Required in exit access corridors in certain occupancies
 - Specifies size and location
 - Specifies acceptable illumination levels
 - Photoluminescent need normal lighting for 60 minutes prior to occupancy

CSFSC – Pt III Additions

- Chapter 15
 - Restored with CT Amendments
 - Flammable Finishes
 - Spray booths
 - Chapter 23
 - High-Piled Combustible Storage
 - Arrangement of piles and racks
 - Fire protection features
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CSFSC – Pt IV Chapter 6

- In-home Group B occupancies
 - Same as new Part III & SBC
 - Multiple Occupancies
 - Put back in code
 - Old mixed use – most stringent applies if so intermingled
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CSFSC – Pt IV Chapter 9

- High-Rise sprinklers CGS 29-315
 - Effective date added 10-1-1973 for applying >4 story provision
 - Standpipe Water Supply
 - Same as new Part III & SBC
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CSFSC – Pt IV Chapter 13
Assembly Occupancies

- Single Main Entrance/Exit
 - Follow CGS 29-381a in lieu of code
 - Effective June 8, 2004
 - If occupant load increases
 - 2/3 out main
 - 1/2 through other exits

CSFSC – Pt IV Chapter 15
Educational Occupancies

- Egress Corridor Separation
 - If sprinkled – no separation required
 - Dropped old *"resist the passage of smoke"*
- Same change for Day-Care Occupancies in Chapter 17

CSFSC – Pt IV
Openings for Ventilation/Rescue

- Wall Opening achieves 5.7 sf for rescue
 - Achieves 5.7 sf
- Window Opening for Ventilation
 - Provides 3.3 sf opening
- Applicable to Educational/ Day-care/ Residential

**CSFSC – Pt IV Chapter 31
Residential Board & Care**

- Change in Evacuation Capability
 - Was previously required to comply with “New”, i.e. SBC & Part III
 - Meet requirements of “Existing” for slower evacuation capability of Part IV
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**CSFSC – Pt V Sec 10.14
IBC Sec 117 / IRC Sec R117**

- Vacant Buildings
 - Safeguarding against entry
 - Fire protection maintained with exceptions
 - Separation between vacant tenant spaces maintained
 - Removal of combustibles and hazardous materials
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**CSFSC – Pt V Chapter 20
Operating Features**

- Educational & Day-care Occupancies
 - Fire drills need only incorporate occupancy
 - Storage of coats in corridors – old exception for smoke detection system restored
 - Mercantile – Consumer Fireworks
 - follow NFPA 1124-2006 for fireworks sales over exempt amounts – storage areas limited
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Recent Legislation Affecting Fire Marshals

- Available at <http://www.cga.ct.gov/>
 - PA 09-35 = Public Act 35 in 2009
 - PA 09-35 *(effective October 1, 2009)*
 - Misc issues ~ CSFSC for Manufacturing, Lack of FM, Explosives & Blasting,
 - PA 09-131 *(effective October 1, 2009)*
 - St Board of Education requirements for Fire/Crisis Response Drills
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Recent Legislation Affecting Fire Marshals

- PA 09-177 & 08-65 *(effective October 1, 2009)*
 - Fire Prevention Code Issues
 - PA 08-65 was effective Oct 1, 2008
 - PA 09-227 *(effective October 1, 2009)*
 - School Inspection reports in written form to Local/Regional Board of Ed
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