

OFFICE OF STATE FIRE MARSHAL
Dept of Construction Services

Current
Topics & Issues

Public Act 11-54
Effective July 1, 2011
Department of Construction Services

- OSFM
- OSBI
- OEDM
- Codes & Standards
- (DPW) Building Design & Construction
- (DOE) School Facilities
 - Project Review & Grants

Public Act 11-54
Effective July 1, 2011
Department of Consumer Protection
CGS Chapter 532 Section 29-129 ~ 29-143b

- Amusement Parks
- Carnivals
- Tents & Circuses
- CGS 29-143a ~ Fire protection at places of public amusement or exhibition

Public Act 11-54
Effective July 1, 2011
Department of Consumer Protection

License Services Division
 165 Capitol Avenue
 Hartford, CT 06106
 (860) 713-6000
 FAX: (860) 713-7229

Email: dcp.licenseservices@ct.gov



DCS ~ OSFM
Organization

Robert J. Ross
 State Fire Marshal

Field Services	State Buildings	Code Services	Licensing & Permits
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Tel: 860-685-8380 or 8350
 Email: osfm.engineer@ct.gov



Field Services Unit

- Assist to Local Code Enforcement Officials
- Modifications ~ Existing Buildings
- Resolution of State C&S Appeals



State Buildings Unit

- **Inspection of Existing State Buildings**

- **State Agency Assists**

- **New Construction of State Buildings**
 - ☞ Cooperative effort with OSBI
 - ☞ Threshold & Larger State Projects



Code Services Unit

- **Modifications ~ with OSBI**
 - ☞ New construction
 - ☞ Renovations / Change of Use

- **Fire Safe Cigarette Certification**

- **Special Projects**



Licensing & Permits Unit

- **Crane Registration & Operator's Licenses**

- **Hoisting Operator Licenses**

- **Demolition Contractor's Licenses**

- **Motion Picture Theater & Manager's Licenses**

**Connecticut State Police
Fire & Explosion
Investigation Unit**



West Squad East Squad

Sgt Mark Grasso Sgt Chris Guari



**Fire & Explosion
Investigation Unit**

CGS Section 29-310 by PA 11-61



- ☞ Fire & Explosion Investigations
- ☞ Accelerant Canines
- ☞ Investigation Training



**Fire & Explosion
Investigation Unit**

On behalf of OSFM in conjunction with DESPP Special Licensing

- ☞ Fireworks & Pyrotechnic Permits/Investigations
- ☞ Explosive Permits/Investigations
- ☞ Explosive Transportation/Storage Regulations
- ☞ Hazardous Materials Investigations







Fire & Explosion Investigation Unit

In conjunction with OSFM

Policy Directive #10

☞ Restricting the Use of a Building ~
Immediate Hazard

☞ Directive 10 Notifications (4 hrs)



Fire & Explosion Investigation Unit

Policy Directive #10

➤ **Five Deadly Sins**

- Blocked, insufficient or impeded egress
- Fire protection/alarm system shut-off
- Storage of flammable or explosives
- Use of fireworks or pyrotechnics w/o permit
- Exceeding occupant load



Fire & Explosion Investigation Unit

In conjunction with CT Dept of Consumer Protection



☞ Amusement Ride
Inspections & Accident
Investigations

☞ Circus Licensing



**CSP Fire & Explosion
Investigation Unit**

Mail:

1111 Country Club Road
Middletown CT 06457

Tel: 860-706-5600 ~ Fax: 860-706-5619
24 Hr Emergency = 800-842-0200

E-Mail: desppfeiu@ct.gov

2005

CT State Fire Safety Code

Part V ~ Operational & Maintenance Issues

Effective September 2012

*New &
Existing*



CT State Fire Prevention Code

Effective July 1, 2010

*New &
Existing*



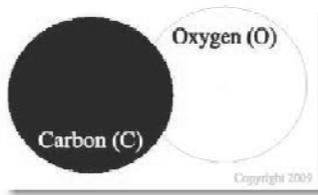
Motion Picture Theaters



Wayne Ferrebee
860-685-8350
wayne.ferrebee@ct.gov

Carbon Monoxide Detectors in Schools

PA 11-248
effective July 1, 2011 for new schools



Carbon Monoxide Detectors in NEW Schools

- Detectors meet UL 2034 or UL 2075
- No battery or plug-in equipment
- Located within any room containing *permanently* installed heating equipment
- System CO detector connected to building fire alarm system as supervisory alarm
- Sign at the entrance(s) to space containing detection

**Carbon Monoxide Detectors
in EXISTING Schools**

▪ **No enforcement action** until incorporated into State Building & Fire Safety Codes

▪ **GUIDANCE**

- Detectors meet UL 2034 or UL 2075
- Battery operated or plug-in equipment maybe used
- Located within any room containing permanently installed heating equipment
- If connected to building fire alarm system, only as supervisory alarm
- Sign at the entrance(s) to space containing detection

**SMOKE ALARMS & CARBON
MONOXIDE DETECTORS**

*Public Act 12-184
effective October 1, 2012*

One- or Two-Family Homes

- Required temporary installation when dwelling is to be occupied during interior renovations or additions requiring a building permit
 - No enforcement provision
- Current IRC portion of SBC requires permanent installation of same

Cargo Tank Inspections

CGS 29-322

Effective January 1, 2013

Via PA 09-177 & PA 10-54

City, town or borough may, by ordinance, require LFM to inspect cargo tank motor vehicles registered by DMV in their jurisdiction.

**BUILDING PERMITS
CERTIFICATES OF OCCUPANCY**

Building Permit
CSFSC 29-292-5e ~ CSBC 105.3.1.2

Certificate of Occupancy
CSFSC 29-292-9e / CSBC 110.1.3

CSFSC Abatement Work
CSBC 105.1.3

Appeal of FM Local Decisions

Option #1
CSFSC Sec. 29-292-3e(b)



Office of State Fire Marshal

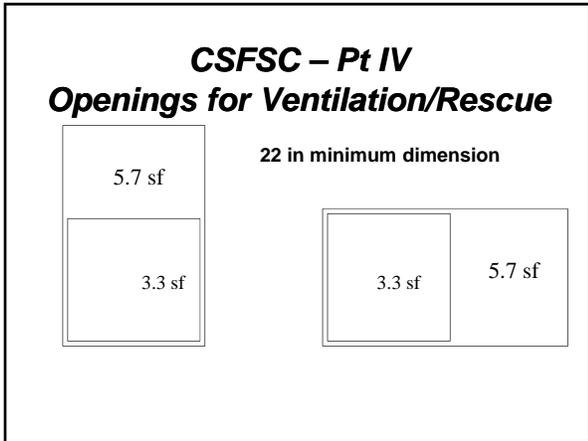
Appeal of Local Decisions

Option #2



State Codes & Standards





- EXISTING RESIDENTIAL**
Undersized or no Window
- Complaint window in common space or second primary means of escape
 - Interconnected AC/DC smoke alarms throughout dwelling unit located in living room and sleeping rooms
 - Deficient or No window from Common Space
 - Interconnected smoke alarms AC/DC throughout dwelling unit located in living room and sleeping rooms
 - AND**
 - Building Corridor Smoke Detection & Alarm

Alternative Fire Extinguishing Systems

2005 STATE FIRE SAFETY AND BUILDING CODES

903.1.1 Alternative protection. In any occupancy **where the character of fuel for fire** is such that extinguishment or control of fire is accomplished by a type of alternative automatic extinguishing system complying with Section 904 in lieu of an automatic sprinkler system, such alternative system shall be installed in accordance with the applicable standard and approved by the code official.

Alternative Fire Extinguishing Systems

2005 STATE FIRE SAFETY AND BUILDING CODES
904.2 Where required. Automatic fire-extinguishing systems installed as an alternative to the required automatic sprinkler systems of Section 903 shall be approved by the building official. Automatic fire-extinguishing systems shall not be considered alternatives for the purposes of exceptions or reductions permitted by other requirements of this code.

One of the main considerations in selecting an extinguishing agent should be the compatibility of the agent with the hazard. The building official has the responsibility to approve an alternative extinguishing agent. The approval should be based on the compatibility of the agent with the hazard and the potential effectiveness of the agent to suppress a fire involving the hazards present. It is important to note that the code places limitations on alternative systems in that they will not be credited toward a building being "equipped throughout" with an automatic sprinkler system where the sprinkler system is an alternative or tradeoff to a code requirement.

Portable Fire Extinguishers

- Where required:
- ✓ Outside special hazardous areas (not general storage)
 - ✓ Health Care
 - ✓ Ambulatory Health Care
 - ✓ Detention & Correction staff areas
 - ✓ Commercial Cooking Equipment
 - ✓ By referenced codes & standards

Code does not require removal

Enhanced 13D System

Group R-4 & Small Group I-2 Alternative

- 30 minute water supply
- Protection of all storage, habitable & occupiable rooms, kitchens and closets
- Sprinkler valves electrically supervised

***IFC Part III & IBC
Chapter 3 Definitions***

Group R-4

Residential Care / Assisted Living
Facilities

***The occupants are capable of responding
to an emergency situation without
physical assistance from staff.***

Enhanced 13D System

R-4

903.2.7 Ex 3

- 6 or less clients
- Two stories height limit

Enhanced 13D System

Small I-2 Group Home

SBC 407.12^{ients}

- 6 or less clients
- 1 Story height limit
- Type VA construction with sheathing
- Sleeping room separation with door directly to outside from each room
- Fire alarm & detection

Enhanced 13D System

Small I-2 Group Home SBC 407.12

- **Type VA construction with sheathing**
- **Sleeping room separation with door directly to outside from each room**

Enhanced 13D System

Small I-2 Group Home SBC 407.12

- 6 or less clients & 1 Story height limit
- Exterior door from each room
 - Sleeping room separation with secondary primary means of escape to exterior from corridor
- Construction type
 - Fire alarm & detection with heat detection in attic space

Current Alternative



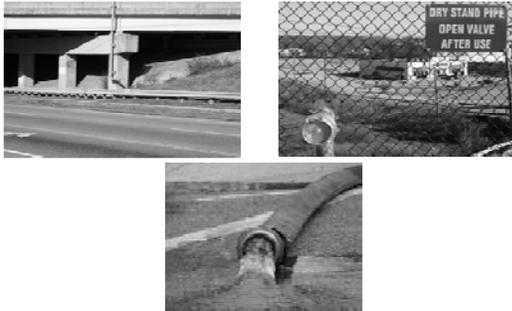
Proposed Alternative



TEMPORARY CLASSROOMS
CT General Statute 29-315(a)(3)
Modifications

- Door directly to exterior from each classroom
- Complete fire detection & alarm system connected to existing school
- Emergency lighting
- Re-evaluated after 10 years

Storz Fittings



Fire Sprinkler Systems



**LEGISLATIVE INITIATIVES
2013 Session**



Special Effects

CGS 29-357 Fireworks

Allows for regulation of indoor use of pyrotechnics, sparklers and fountains for special effects

Proposal

Flame effects using propane or flammable liquids has increased since 2003 Station Night Club fire

Licensing of operators & Permits for events

Certification of Fire Officials

OSFM & OEDM

CGS 29-298

“Eligible to be Certified”

vs

Eligible for Appointment

LEGISLATIVE INITIATIVES ~ 2013 Session

Certification of Fire Officials

**OSFM & OEDM
CGS 29-297 & 29-298**

- ❖ Expands liability clause to all of Chapter 541
- ❖ Expands delegation of signature authority
- ❖ Allows recognition of outside training programs
- ❖ Allow the appointment of lower tier Inspectors

LEGISLATIVE INITIATIVES ~ 2013 Session

Sky Lanterns



LEGISLATIVE INITIATIVES ~ 2013 Session
