



CT Fire Prevention Code
The October 2012 Update

May 2013

Office of Education and Data Management
Department of Construction Services
State of Connecticut

Spring 2013 Career Development

Objectives

- Review the current structure of the CSFPC
- Understand the relationship of the CSFPC in conjunction with the State Fire Code
- Understand proper application of the CSFPC
- Understand the basic structure of the CSFPC
- Understand the citation option open to Local Fire Code Enforcement personnel
- Understand the relationship between emergency management and CSFPC compliance.
- Maintain vital signs long enough to receive OEDM credit for the time spent here today.

Introduction

- CT Fire Safety Regulations – A complex compilation
 - CT Fire Prevention Code
 - CT State Fire Safety Code
 - CT Explosives Code
 - CT Fireworks & Special Effects Code
 - CT Flammable & Combustible Liquids Code
 - CT Gas Equipment & Piping Code
 - CT Hazardous Chemical Code
 - CT Liquefied Petroleum Gas & Liquefied Natural Gas Code
 - CT Oil Burning Equipment Code
 - CT Moving Picture Theater Code
 - CT Tent & Portable Shelter Code
 - Space Heater Statute
 - Other Statutes & Regulations
 - Hundreds of referenced Standards & specifications



Effective October 2, 2012

- An attempt at simplification & increased effectiveness
 - A Fire Prevention Code
 - based on a Nationally Recognized Fire Prevention Code
 - The standard NFPA 1 Uniform Fire Code (2003)
 - Provide a single source for routine, periodic building inspections focused on maintenance & operational issues.

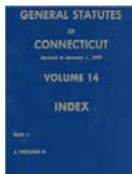


Let us look at the Statutes

Legislative Law Behind the Changes

Statues

- CGS 29-291a
 - SFM empower to adopt a State Fire Prevention Code
 - Code based on a model code
 - SFM will administer the Code
 - SFM will interpret the Code
 - Applicability
 - Contents



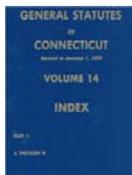
Statutes

- CGS 29-291b
 - Modifications
 - SFM holds sole authority to modify



Statutes

- CGS 29-291c
 - Abatement of certain conditions, injunctions, citation and penalties
 - Abatement – same as the CSFSC
 - Citation – alternative to abatement
 - Limited to specific Code violations
 - Covered in greater detail a bit later



Statutes

- CGS 29-291d
 - SFM to review LFM decisions
 - SFM to review LFM decisions pertaining to the CSFSC upon request of any person determined to have a right to appeal
 - OR when the SFM has reason to believe the LFM has misconstrued/misinterpreted the Code



Regulations

- 29-291a-2 Relationship to State Fire Safety & Building Codes
 - The requirements of the CSFPC shall not supersede the requirements of either the CSFSC or the SBC
 - Where the CSFPC conflicts with or duplicates any provisions of the CSFSC or SBC the CSFSC or SBC shall prevail
 - Where the CSFSC or SBC do not address an issue have a deleted provision the CSFPC shall apply
 - Simplified: The Prevention code is subordinate to the Fire code and intended to 'fill the gaps'
 - This code is intended for handling maintenance and operational issues!

Regulations

- 29-291a-4 Authority Having Jurisdiction
 - Per 29-291a of the CT General Statutes the AHJ shall mean the SFM regarding the proper
 - Administration
 - Application
 - Interpretation
 - The LFM shall make the initial determination for Code compliance
 - Upon request the initial determination may be reviewed by the SFM
 - CSFPC also grants some specific situational judgment to LFM

Regulations

- 29-291a-5 Variations or Exemptions
 - Per 29-291b of the CGS the **STATE** FM may modify the requirements of this code where the SFM deems that strict compliance would entail
 - Practical difficulty
 - Unnecessary hardship
 - Otherwise adjudged unwarranted
 - The Local Fire Marshal is empowered to determine compliance; NOT to modify code.

Regulations

- 29-291a-7 Inspections, Plan Submittals
 - Each LFM, SFM and designees shall conduct inspections per CGS 29-305
 - Within their jurisdiction
 - Federal & State property exempt from LFM inspection
 - State leased property
 - LFM abates building owner
 - SFM abates tenant

Regulations

- 29-291a-7 Inspections, Plan Submittals
 - Minimum requirements for frequency of inspections per CGS 29-305 (same as CSFSC)
 - Annual inspections
 - A-1, A-2,E,H-1, I-1
 - 2 year inspections
 - A-3, H2, I-2
 - 3 year inspections
 - B, H-3, M, S-1, A-4, A-5
 - 4 year inspections
 - F-1, F-2, H



Model Code Arrangement

- The Model Code
 - Part I
 - Administrative
 - Part II
 - General
 - Part III
 - Occupancy
 - Part IV
 - Processes
 - Part V
 - Equipment
 - Part VI
 - Hazardous Materials
 - Annexes
 - Index



CSFPC Overview

- Part I – Administrative Chapters 1-9
- Part II – General Chapters 10-19
- Part III – Occupancy Chapters 20-39
- Part IV – Process Chapters 40-49
- Part V – Equipment Chapters 50-59
- Part VI – Hazardous Materials Chapters 60-73

- Note: Several chapters are 'reserved'
- Connecticut heavily amended NFPA1





Common CSFPC Items

- Emergency Plan and Employee Training
- Evacuation & Relocation Plan, Fire Drills
- Extinguisher Training
- Portable Heating Devices
- Maintenance of Exits
- Overcrowding
- Open Flame & Pyrotechnics
- Furnishing, Bedding & Decorations
- Lease Plan (Covered Mall Buildings)
- Storage and Display of Consumer Fireworks
- Smoking

In short: Behavior & contents

CT Fire Prevention Code
Administrative – Part 1

Chapter 1 Administration

- Purpose
- The purpose of this Code, as intended by Connecticut, is to set a minimal level of fire and life safety from hazards created by fire, explosion and dangerous conditions



Chapter 1 Administration

- Life safety considerations include
 - Occupants
 - FD Personnel
 - Fire Brigade Members
 - Employees
 - Responsible Parties
 - General Public



Chapter 1 Administration

- Application
 - This Code shall apply to both new and existing structures
 - Typical application to existing building, periodic inspection



Chapter 1 Administration

- Vehicle & Vessels
 - When vehicle & vessels in fixed locations and occupied as buildings per the CSFSC shall be treated as buildings and comply with this Code



Chapter 1 Administration

- Repairs, renovations, alterations, reconstruction, change of occupancy and additions to buildings shall conform to the CSFSC and the CSBC



Chapter 1 Administration

- **Equivalencies**
 - Nothing in this Code is intended to prevent the use of systems, methods or devices of equivalent or superior quality provided:
 - Technical data is submitted to the SFM to demonstrate equivalencies or approved for the intended purpose
 - SFM accepts and approves the equivalencies



Prescriptive Mousetrap



Better Mousetrap

Chapter 1 Administration

- **1.12.3 Misrepresentation**
 - Any attempt to misrepresent or deliberately or knowingly
 - Design/Install
 - Service/Maintain
 - Sell/Operate
 - Falsify records/reports
 - In violation of the requirements of this code shall be a violation of this code



Lowest Bidder ?

Chapter 1 Administration

- **1.12 Permits**
 - LFM granted authority to require permits based on specific operations & materials
 - 53 items listed in table 1.12.19(a)
 - Apartment Building operation
 - Business occupancy operation
 - Educational facility operation
 - Repair Garage Operation
 - Hot work operations
 - Assembly occupancy operation
 - Tar kettle placement
 - Many others
 - Work with your municipal attorney to ensure that a legal apparatus is in place!



Chapter 2 Referenced Publications

- Recall that the SFM intends that this Code be used as a maintenance and operational issues Code.
 - Primarily we'll look at standards such as:
 - NFPA 96
 - Cleaning and maintenance items
 - NFPA 25
 - Entire Standard
 - NFPA 72
 - Maintenance items
 - This language permits the direct use of appropriate reference materials

Chapter 3 Definitions

- General
 - The definitions in this chapter shall apply to the terms used in the CSFPC.
 - Where terms are not included common usage will apply
 - Where terms are not identified in this chapter, referenced code or standard
 - 2.3.15 They are defined using ordinary accepted meanings
 - Webster's Third New International Dictionary Unabridged



Chapter 3 Definitions

- Unique 'improved' several definitions
 - Building – 3.3.22 references the SBC for fire walls to create separate buildings approved by the building official
 - Dwelling unit – 3.3.66 defines a dwelling unit of not more than 6 lodgers/boarders where care is not provided
 - In-home Group B – 3.3.138.4.1 this is a CT definition
 - Bed & Breakfast – 3.3.138.23.1 this is a CT definition



Administrative – Part 1

- Chapters 4 and 5 deleted
 - General Requirements & Performance Based Options are addressed by the CSFSC and the SBC
- Chapters 6 – 9 'reserved'



CT Fire Prevention Code

General – Part 2

Chapter 10 General Fire Safety

- Chapter 10 requirements apply to both new and existing buildings/structures in the behavioral areas:
 - Fundamental requirements
 - Owner/occupant responsibility
 - Fire Safety System maintenance and testing
 - Fire drills
 - Fire and emergency reporting
 - Tampering with fire safety equipment
 - Decorations , furnishings, & combustible vegetation
 - Emergency planning
 - Smoking
 - Vacant buildings and premises (CT section)
 - Several others



Chapter 10

- Occupancy
 - No new or existing building shall be occupied or in part in violation of the CSFPC
 - Existing buildings that are occupied at the time this code was adopted shall remain in use provided:
 - The occupancy classification remains the same
 - No condition exist that would constitute an imminent danger
 - OFSM Directive #10
 - Issued September 22, 2009
 - Procedure for immediate hazards to occupants
 - FM & PD have power vacate building

Chapter 10

- Maintenance & Testing
 - Whenever any device, equipment, system, condition, arrangement or any other feature is required for compliance of the CSFPC or SBC such features shall be continuously maintained per NFPA requirements or as directed by the AHJ
 - Recall that dozens of NFPA Standards are directly referenced



Chapter 10

- Maintenance & Testing cont.
 - Existing fire safety features obvious to the public if not required by the CSFPC or SBC will be either maintained or removed
 - Before any safety feature is removed care needs to be exercised to ensure feature is not required or was provided as an alternate for code compliance

Chapter 10

- 10.12.1 key box authorization
 - Local FM may require key box installation
 - Local ordinance would be a good idea



Chapter 10

- Reporting of fires and other emergencies
 - A person discovering any unwanted fire regardless of magnitude shall immediately notify the fire department
 - It is a violation for any person to willfully make any false, misleading, or unfounded reports, to mislead the FD
 - Or interfere with FD operations



Chapter 10

- Fire protection markings
 - Buildings shall have approved address numbers placed to be legible and visible from the street fronting the property
 - Shaftways – every outside opening accessible to the FD that opens directly on any hoistway or shaftway communicating between two or more floors shall be plainly marked with a sign

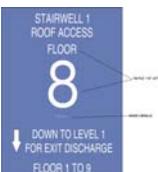


Chapter 10

- Fire protection markings cont.

- Stairway markings – stairs serving five or more stories shall be provided with special signage within the enclosure at each floor landing

- The signage shall comply with the CSFSC and ICC/ANSI A117.1



Fire Drills

- 10.6 Emergency Access & Relocation Drills

- Conducted as specified by CSFC, Chapter 20
- CGS Title 10 also deals with this issue
 - Title 10 = State Department of Education
 - FD needs to work with local schools on this issue



Tampering with Fire Safety Equipment

10.8 No person shall render any portable or fixed fire-extinguishing system or device or any fire warning system inoperative or inaccessible.

PD can also get involved
CGS 53a-117a



Emergency Plans

10.9 General Fire Safety

Emergency plans shall be provided as required by Chapter 20 (Occupancy Fire Safety)



Chapter 10

- Vacant buildings
 - Temporarily unoccupied buildings, structures or portions there of including tenant spaces shall be safeguarded and maintained per this section
 - Exterior and interior openings accessible to other tenants or unauthorized people shall be boarded, locked, blocked, or otherwise protected
 - Fire alarms, sprinklers and standpipe systems shall be operable at all times
 - With exceptions based on local code official's judgment
 - Big question – is it really 'vacant' or simply a very static storage situation?

Chapter 10

- Vacant buildings cont.
 - Persons in charge of a vacant building or portion of shall remove all combustible materials and flammable/combustible rubbish from space and secure openings to prevent entry by unauthorized persons
 - Exception – buildings undergoing repair, alteration, or addition under a valid permit
 - Exception – seasonally occupied buildings



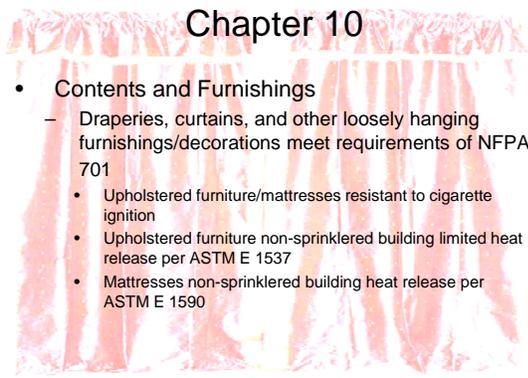
Chapter 10

- 10.16 Special Outdoor Events, Carnivals & Fairs
 - Standby personnel
 - PFE
 - Alarm & communications
 - Other issues



Chapter 10

- Contents and Furnishings
 - Draperies, curtains, and other loosely hanging furnishings/decorations meet requirements of NFPA 701
 - Upholstered furniture/mattresses resistant to cigarette ignition
 - Upholstered furniture non-sprinklered building limited heat release per ASTM E 1537
 - Mattresses non-sprinklered building heat release per ASTM E 1590



Chapter 11

Building Services

Chapter 11 Building Services

- Chapter 11 requirements apply to both new and existing buildings and structures in the key areas some examples:
 - Electrical Fire Safety
 - Heating, Ventilation & Air Conditioning (HVAC)
 - Elevators, Escalators and Conveyors
 - Utilities
 - Heating Appliances
 - Rubbish Chutes, Incinerators & Laundry Chutes
 - Stationary Generators and Standby Power Systems
 - Smoke Control
 - Emergency Command Center

Chapter 11

- Electrical Fire Safety
 - This section applies to new, existing, permanent or temporary electrical
 - Appliances
 - Equipment
 - Fixtures
 - Wiring
 - All electrical appliances, fixtures, equipment or wiring shall be installed and maintained per NFPA 70 National Electrical Code
 - OFSM Intent is that this is a maintenance / operational code



Compliance with NFPA 70?

- Do we really need to fully understand the NEC to identify this part of the installation in not in compliance?



Chapter 11

- Electrical Fire Safety cont.
 - Extension cords shall not be used as a substitute for permanent wiring
 - Multiple adapters, cube adapters, strip plugs and other devices shall be listed and used per their listing



Family Griswold Home

Chapter 11

- Heating Appliances
 - Kerosene Burners and Oil Stoves – shall be equipped with a primary safety control as an integral part of the appliance to stop the flow of oil in the event of a flame failure
 - All unvented fuel-burning rooms heaters to be listed by a nationally recognized testing laboratory
 - CT CGS 21a-335
 - Language of this section mirrors the space heater statute
 - Residential use:
 - Single family, detached homes only
 - Also see CGS 29-318



Chapter 11

- Heating Appliances
 - 11.5.3.1 The AHJ shall be permitted to prohibit use of portable electric heaters in occupancies/situations the use would present an undue danger to life or property
 - Is a heater used properly an undue danger?



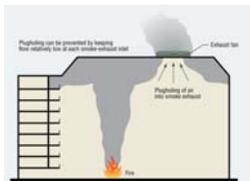
Chapter 11

- Stationary Generators & Standby Power Systems
 - We are essentially looking at the maintenance / testing issues found in 11.7.4
 - SBC & SFC will determine where these units are required and handle installation



Chapter 11

- Smoke Control
 - The provisions of this section do not require smoke control systems but mandates that if such a system is installed for Code compliance an approved maintenance and testing program must be provided



Chapter 11

- Emergency Command Center
 - We're looking at the maintenance angle in ensuring that items found in 11.94 & 11.95 are maintained.
 - The requirement for heated leather recliners did not make the final cut during Code development.



Chapter 12

Features of Fire Protection

Chapter 12 Features of Fire Protection

- Maintenance of passive fire protection features
 - Construction types
 - Fire-resistant assemblies
 - Fire doors/windows
 - Interior finish
 - Furnishings, contents, decorations and treated finishes
 - Fire barriers
 - Smoke partitions
 - Smoke barriers



Chapter 12

- Recall again that this Code is subordinate
 - Much of 12 is a 'parrot' of Part III, Part IV, SBC
 - Reference is made to CSFSC & referenced standards
- Application to 'as built'
 - Excellent source for handling post-CO, poke-through issues
 - Membrane penetration
 - HVAC opening modifications
 - Opening protective modifications



Chapter 13

Fire Protection Systems

Chapter 13 Fire Protection Systems

- Active fire protection focus
 - Standpipes
 - Sprinklers
 - Other systems
 - Extinguishers
 - Detection & notification systems
- Details owner responsibilities
 - System maintenance
 - Record keeping
 - System reliability
 - System testing



Chapter 13

- Fire Watch
 - 13.1.9 When a fire protection system is out of service for more than 4 hours in a 24-hour period the AHJ can require the building to be evacuated or an approved fire watch to be provided for all portions of the building left unprotected
 - Again recall Directive #10
 - 13.1.8 Local FM notified of change in fire protection system status
 - Out of service
 - Back-in service
 - 13.1.10 Excessive number of activations
 - Fire watch may be ordered



Chapter 13

- Sprinkler system

- Building Owner responsibilities

- 13.3.3.3.3 AHJ notification of AS system is out of service
- Proper testing
- Protection from freezing
- Record keeping
- Spare heads



Portable Extinguishers

- Installation
- Maintenance
- Selection
- Distribution
- Monthly Inspection

Shall be in accordance with NFPA 10, *Standard for Portable Fire Extinguishers*, and Section 13.6. of CFSC.



Chapter 13

- Detection, Alarm & Communication

- Where building fire alarm systems or automatic fire detectors are required by other sections of the SFC or SBC, they shall be maintained per NFPA 72 National Fire Alarm Code

- The above language is a paraphrase.
- This language represents the intent that we use the Fire Prevention Code as maintenance / operational code



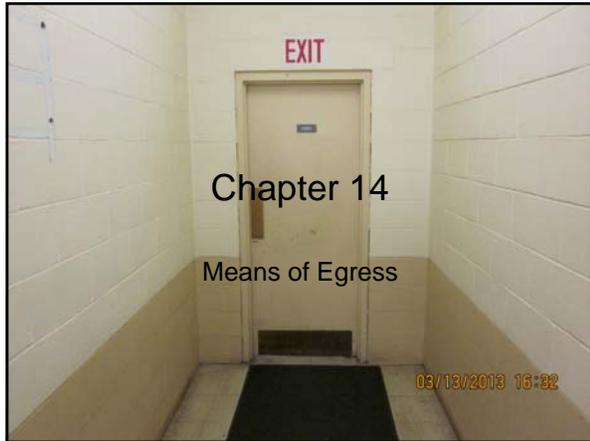
Fire Alarm Maintenance and Testing

13.7 Huge section dealing with alarm & communication system maintenance

-Table 13.7.3.2.7

-Comprehensive system component service requirements





Chapter 14

- Means of Egress

- Reliability
- Impediments
- Devices
- Camouflage
- Illumination
- Markings



Periodic Testing of Emergency Lighting Equipment

14.13 Emergency Lighting Requirements
Testing options
NFPA 110 Reference



Means of Egress Identification -

Familiar language swiped from NFPA101
Location
Size
SBC / SFC set requirements!

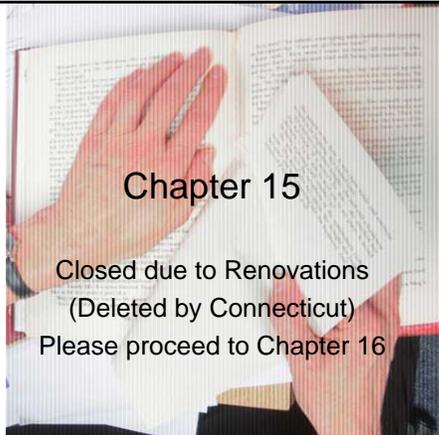


We're looking at:
Illumination maintenance
Testing requirements
Force to open
Damaged hardware
Labeling

Chapter 14

- The M-O-E Chapter
 - Large amount of material
 - Similar to familiar CSFSC language
 - Use this area for maintenance issues





Chapter 15
Closed due to Renovations
(Deleted by Connecticut)
Please proceed to Chapter 16



Chapter 16
Safeguards During Construction,
Alteration and Demolition
Operations

Chapter 17

- Chapter 17 deleted by CT

Chapter 18
Fire Department Access

Chapter 18

- General Requirements
 - FD access
 - Access requirements
 - Road dimensional criteria
 - Bridge requirements
 - Access impediments
 - 18.2.2.1.2 AHJ may require additional fire protections features where access road cannot be installed
 - AS
 - Equipment cache
 - Connecticut deleted portions of this chapter dealing with firefighting water supply.



Chapter 19
Combustible Waste and Refuse

Chapter 19

- Everything you wanted to know about trash storage
 - Containers
 - Removal schedule
 - Storage maximums
 - Dumpster limitations



CT Fire Prevention Code

Occupancy Part 3
Chapters 20-31
{32-39 'reserved'}

Chapter 20 – Occupancy Fire Safety

- Operational requirements specific to occupancy
 - Assembly
 - Educational
 - Day-care
 - Health
 - Residential Board & Care
 - Ambulatory Health Care
 - Detention and Correctional
 - Hotels & Dorms
 - Apartments
 - Lodging / Rooming
 - 1 & 2 Family / Manufactured Housing
 - Mercantile
 - Business
 - Industrial
 - Storage
 - Special Structures / High Rise
 - Historical Buildings

Chapter 21-31
Fire Safety for Specific Operations

- Chapter 21 – Airports & Heliports
- Chapter 22 - Automobile Wrecking Yards
- Chapter 23 - Clean rooms
- Chapter 24 – Dry-cleaning
- Chapter 25 – Grandstands, bleachers, tents, membrane structures
- Chapter 26 – laboratories using chemicals
- Chapter 27 – *Manufactured Home & Recreational vehicle sites*
- Chapter 28 – Marinas & Boatyards
- Chapter 29 – Parking Garages
- Chapter 30 – Motor Fuel Dispensing Facilities & Repair Garages
- Chapter 31 – Forest products

Chapter 20-31

- Recall that the CSF PREVENTION Code is subordinate to the CSF SAFETY Code
- View the CSFPC as an behavior control code
- Use this code to deal with operational issues
 - Example: Outside storage of wood chips
 - 31.3.6 leads to NFPA 230 (2003 ed.) language
 - Pile height
 - Pile temperature monitoring
 - Fire access lanes
 - On site firefighting equipment requirements
- Many Connecticut amendments!

CT Fire Prevention Code

Process Part 4
Chapters 40-44
{45-49 are 'reserved'}

Chapters 40-49
Fire Safety for Specific Processes

- Chapter 40 – Dust Explosion Prevention
- Chapter 41 – Welding / Cutting / Hot Work Operations
- Chapter 42 – Refueling
 - CT Amendment directly references the CSFSC, SBC, & CT Flam./Comb. Liquid Code
- Chapter 43 – Materials Finishing with Flammable / Combustibles
 - CT Amendment directly references the CSFSC, SBC, & CT Flam./Comb. Liquid Code
- Chapter 44 – Solvent Extraction

- Chapters 45-49 are 'reserved'

- Does not apply to premises used for manufacturing!

CT Fire Prevention Code

Equipment Part 5

Chapter 50-53
Fire Safety for Specific Equipment

- Chapter 50 – Commercial Cooking Equipment
- Chapter 51 – Industrial Ovens & Furnaces
- Chapter 52 – Stationary Lead-Acid Battery Systems
- Chapter 53 – Mechanical Refrigeration

- Chapters 54-59 are 'reserved'

CT Fire Prevention Code
Hazardous Materials Part 6

Chapter 60-73
HazMat Related Operations

- Nearly all of the Hazmat Section (60-73) is either deleted or referred to the SBC & CSFSC
- Excepting Chapter 65
 - The storage, use and handling of explosives, fireworks and model rocketry shall comply with the requirements of the:
 - CT Explosives Code
 - CT Fireworks & Special Effects Code
 - CT Model Rocketry Code
 - Chapter 65 of CSFPC



Review
Connecticut State Fire Prevention Code

- 6 parts
- Heavily amended by CT
- Subordinate to SBC & CSFSC
- Think 'behavior' control
- The main driver for periodic inspections
- 'Fits-all' for existing occupancies





**State Fire Prevention Code
Enforcement by Citation**

An enforcement option for the LFM



Detectives Bill Gannon & Joe Friday

A quick look at “just the facts”

**State Fire Prevention Code
Compliance Techniques**

- CGS 29-291c provides some ‘correction’ choices
 - Voluntary, immediate abatement
 - Identify the issue(s), correct behavior
 - Abatement order with time component
 - \$50 / day fine per CGS29-291(c)
 - Injunction actions
 - Additional \$200 - \$1000 fine
 - 6 months imprisonment
 - **Citation**
 - Limited to specific portions of CSFPC
 - **Important note: In order to issue a citation, a person must have attended the Certification class offered previously by the OSFM**



FPC Abatement Order Penalties for Violation CGS 29-291c(a)

- **Criminal**
 - Fine of \$200 – \$1000, six months imprisonment or both
 - Execution by the State Court System
- **Civil**
 - Fine of \$50 for each day of continuance of violation
 - Execution by the State Court System

Fire Prevention Code

- **Citation Process**
 - LIMITED to specific portions of CSFPC
 - Scope
 - Once every 6 months for the same violation
 - Use JD-CR-2 Complaint Ticket
 - Signed by FM and owner / occupant
 - Fine maximum \$250.00
 - 90% back to municipality



CSFPC Citable Offenses 10 items --- Count 'em ---10

Sec. 29-291a-10. Enforcement by Citations
 The following chapters or sections of this code may be enforced through the use of the citation process pursuant to section 29-291c of the Connecticut General Statutes.

Chapter /Section Subject Matter

Section 1.12 -Operating without a permit as prescribed by law
 Section 10.15.9 - Provisions for Naturally Cut (Christmas) Trees
 Sections 10.8, 13.1.7 - Failure to maintain or the shutting- off of any fire protection or fire warning system required by the Connecticut State Fire Safety Code
 Sections 14.4.1, 14.4.3, 14.4.3.1 - Blocked, insufficient or impeded egress
 -Chapter 16 Safeguards During Building Construction, Alteration, and Demolition Operations
 Section 20.1.4.8.3 - Exceeding the established occupancy limit-assembly occupancies
 Section 20.12.2.4 - Storage and Display of Consumer Fireworks
 Chapter 41 - Hot Work Operations
 Section 50.5 - Procedures for Use and Maintenance of Commercial Cooking Equipment
 Section 65.11.1.5 - Retail Sales of Consumer Fireworks limited to mercantile occupancies

CSFPC Citable Offenses Item 1

- Section 1.12 -Operating without a permit as prescribed by law
 - Local ordinance is obviously very important!
 - Your municipal attorney needs to be involved in crafting local policy.



CSFPC Citable Offenses Item 2

- Section 10.15 – Combustible vegetation
 - Provisions for Naturally Cut (Christmas) Trees
 - Table 10.15.1

Placement	Tree Height	Clearance from Combustibles	Clearance from Electrical	Clearance from Stairs	Clearance from Exit
Indoor	6'0"	3'0"	3'0"	3'0"	3'0"
Outdoor	10'0"	3'0"	3'0"	3'0"	3'0"
On roof	6'0"	3'0"	3'0"	3'0"	3'0"
On porch	6'0"	3'0"	3'0"	3'0"	3'0"
On balcony	6'0"	3'0"	3'0"	3'0"	3'0"
On lawn	10'0"	3'0"	3'0"	3'0"	3'0"
On driveway	10'0"	3'0"	3'0"	3'0"	3'0"
On sidewalk	6'0"	3'0"	3'0"	3'0"	3'0"
On street	10'0"	3'0"	3'0"	3'0"	3'0"
On utility	6'0"	3'0"	3'0"	3'0"	3'0"



CSFPC Citable Offenses Item 3

- Sections 10.8, 13.1.7 - Failure to maintain or the shutting off of any fire protection or fire warning system required by the Connecticut State Fire Safety Code
 - Also recall that Directive 10 offers another option for action
 - Police Department CGS 53a-117a



CSFPC Citable Offenses Item 4

- Sections 14.4.1, 14.4.3, 14.4.3.1 -
Blocked, insufficient or impeded egress



CSFPC Citable Offenses Item 5

- *Chapter 16 Safeguards During Building Construction, Alteration, and Demolition Operations*



CSFPC Citable Offenses Item 6

- Section 20.1.4.8.3 - Posted occupancy limit
– assembly occupancies



CSFPC Citable Offenses Item 7

- Found in the “mercantile” portion of chapter 20
 - Section 20.12.2.4 - Storage and Display of Consumer Fireworks
 - NFPA 1124 as amended per chapter 20
 - 20.12.2.4.1 – Visual control by employee
 - 20.12.2.4.3 – Storage relative to exits



CSFPC Citable Offenses Item 8

- Chapter 41 - Hot Work Operations
 - Permitting
 - Fire watch
 - Fire protection equipment
 - Gas cylinder protection
 - Other Chapter 41 requirements



CSFPC Citable Offenses Item 9

- Section 50.5 - Commercial Cooking Equipment
 - Operation
 - Inspection
 - Cleaning
 - Maintenance
 - Fire protection



CSFPC Citable Offenses Item 10

- Section 65.11.1.5 - Retail Sales of Consumer Fireworks limited to mercantile occupancies
 - Recall that Item 7 was also related to fireworks display



Abatement or Citation Which choice is right?

- Ascertain the facts
- Weigh out your options
- Be consistent with enforcement
 - Use your delegated judgment wisely
- Follow a written policy

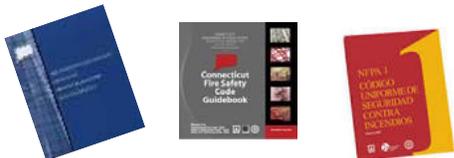


Mitigation Specific Items



Mitigation Specific Items

- Compliance with the CSFSC, CFPC, CT Haz-Mat Codes and the SBC has an impact on emergency management issues such as preparedness and recovery



Mitigation Specific Items

- The NFPA, ICC and FEMA have recognized that through code enforcement
 - The community's risk from hazards can be reduced
 - Resiliency and recovery is enhanced



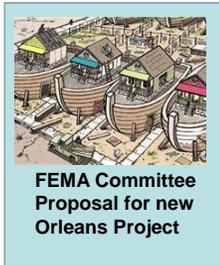
Mitigation Specific Items

- Risk Defined (FEMA)
 - The estimated impact a hazard event would have on people, services, facilities and structures in a community
 - FD Target Hazards
 - Frequency of inspections as required by the CSFSC



Mitigation Specific Items

- Benefits of Risk Identification – FEMA
 - Saved lives
 - Reduced property damage
 - Reduced economic losses
 - Ability of local government to resume operations quickly



Mitigation Specific Items

- Disaster Resistant Community Defined (FEMA)
 - A community where significant steps/actions have been taken to reduce vulnerability to potential events
 - Planning future development
 - Better codes
 - Implementation and enforcement of codes



Mitigation Specific Items

- Assessing Risks Defined (FEMA)
 - Determine what hazards potentially threaten a community and how vulnerable the community is to those risks
 - Identify hazards
 - Profile hazard events
 - Inventory assets
 - Estimate losses



Mitigation Specific Items

- Inventory Assets (FEMA)
 - Among the most urgent/important assets are critical facilities
 - Essential facilities – for the health and welfare of the whole population
 - Hospitals
 - PD/FD Stations
 - EOC's
 - Evacuation Shelters



Mitigation Specific Items

- Critical Facilities cont.
 - Special facilities – for housing populations needing special considerations
 - Nursing homes
 - To where do we move 100 non-ambulatory people?
 - Prisons
 - Place for 300 criminals?
 - Hazardous Materials facilities



Mitigation Specific Items

- Hazard Mitigation Defined
 - Sustained actions taken to reduce or eliminate long term risk to people and property from hazards and their effects (FEMA)
 - Measures taken to limit/control the consequences and extent or severity of an incident that cannot be reasonably prevented (NFPA)

Mitigation Specific Items

- Hazard Mitigation Actions (FEMA) 
 - Prevention
 - Actions taken to keep a hazard from getting worse through the use of codes
 - Critical Facilities Protection
 - Actions taken to protect critical facilities which effect the ability of a community to respond and recover from a hazard event

Mitigation Specific Items

- Mitigation and Codes
 - Mitigation efforts such as **code adoption** and **enforcement** is one of the best ways to protect people against the effects of natural hazards (FEMA)

Mitigation Specific Items

- Mitigation and Codes cont.
 - Fire/Life Safety Codes address (NFPA)
 - Construction features
 - Fire protection features
 - Emergency planning
 - Two means of egress & min. exit widths
 - Max. travel distances
 - Marking & illumination of exits/exit paths

Mitigation Specific Items

- Mitigation and Codes cont.
 - Building Code addresses:
 - Structural integrity
 - Construction materials
 - Ventilation
 - Lighting
 - Fire resistance



Mitigation Specific Items

- Mitigation and Codes cont.
 - A combination of the following is essential in mitigation risks for building occupants (NFPA)
 - Detection
 - Alarm & occupant notification
 - Properly designed & maintained means of egress
 - Emergency planning

Mitigation Specific Items

- Mitigation and Codes cont.
 - Removal/Elimination of Hazard (NFPA)
 - Attempts should be made where possible to remove the following from building occupants
 - Hazardous chemicals
 - Hazardous processes/activities
 - Hazardous raw materials
 - Identify where a lack of employee training regarding hazards exists (CT F&C Liq. Code)

Mitigation Specific Items

- Mitigation and Codes cont.
 - Segregation of the Hazard (NFPA)
 - Separate high hazards from low hazards by the proper construction of barriers
 - CT Haz Mat Codes for example addresses the storage of oxidizers near combustible liquids

Mitigation Specific Items

- Mitigation and Codes cont.
 - Other actions (NFPA)
 - Control rates of heat release of the hazard
 - Reduce the quantity on site
 - Regulate the quantity or process that uses haz-mat
 - Containment systems

Mitigation Specific Items

- CT Amendment to 10.6 Fire Drills cont.
 - Drill Frequency (10.6.2)
 - Referred to Chapter 20



Mitigation Specific Items

- CT Amendment to 10.6 Fire Drills
 - Where required (10.6.1)
 - Emergency egress/relocation drills shall be conducted as specified in Chapter 20

 - Drills shall be designed in cooperation with local authorities and shall consider the needs of the physically challenged

Mitigation Specific Items

- CT Amendment to 10.9 Emergency Plans
 - Where Required (10.9.1)
 - Emergency plans shall be provided for;
 - High-Rise
 - Health care
 - Ambulatory health care
 - Residential board & care Day care centers
 - Special amusement buildings
 - Detection & correction occupancies
 - Underground & windowless structures
 - Facilities storing/handling materials covered in Ch. 20

Mitigation Specific Items

- CT Amendment to 10.9 Emergency Plans
 - Plan Requirements (10.9.2)
 - Plans shall include
 - Procedures for reporting emergencies
 - Occupant/staff response to emergencies
 - Type, coverage and impairment of building fire protection system

Mitigation Specific Items

- 10.9 Emergency Plans cont.
 - Plan Review (10.9.2.1)
 - When required emergency plans shall be submitted to the AHJ for review
 - Plan Maintenance (10.9.2.2)
 - Plans shall be reviewed/updated annually
 - Revised plans shall be submitted for review and updates provided when changes are made to the
 - Occupancy
 - Physical arrangement of building
 - Fire protection system/features

Mitigation Specific Items

- 10.12.1 Access boxes
 - AHJ Has the authority to require access key box
- 10.12.2 Gate community access
 - AHJ may require access for FD use
 - Approved device or system
- 10.12.3 Owner / occupant to maintain accessibility
 - FD made aware of key change or modification to access

Mitigation Specific Items

- Chapter 11 Building Services
 - Station Generators & Standby Power Systems 11.7
 - Emergency & Standby Power Systems 11.7.2
 - Maintenance & Testing 11.7.4
 - Stationary generators used for standby power shall be tested & maintained per NFPA 37, NFPA 110
 - Stored Electrical Energy Systems



Mitigation Specific Items

- Chapter 13 Fire Protection Features
 - Impairments 13.3.4
 - Measures shall be taken during impairment to ensure that increased risks are minimized and the duration of the impairment is limited
 - Preplanned Impairment Program 13.3.4.3.5
 - Emergency Impairment Program 13.3.4.3.6
 - Restoring Systems to Service 13.3.4.3.7

Mitigation Specific Items

- Fire Pumps 13.4
 - Equipment Protection 13.4.2.1
 - Fire pump, driver and controller shall be protected against interruption of service from
 - Explosion, fire
 - Flood
 - Earthquake
 - Rodents/insects
 - Windstorm, freezing
 - Vandalism
 - Indoor fire pump separation 13.4.2.1.1
 - Outdoor fire pump location/protection 13.4.2.1.2



Program Summary

- CSFSC, Old Part V, no longer in existence
- CSFPC consists of a heavily modified NFPA 1
- CSFPC is intended to handle operational / maintenance issues
- CSFPC is subordinate to the CSFSC
- LFM has additional citation option for corrective action
- CSFPC enhances contains several mitigation enhancement items
- Code compliance assists in time of disaster

Thank-You!



State of Connecticut

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Management

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