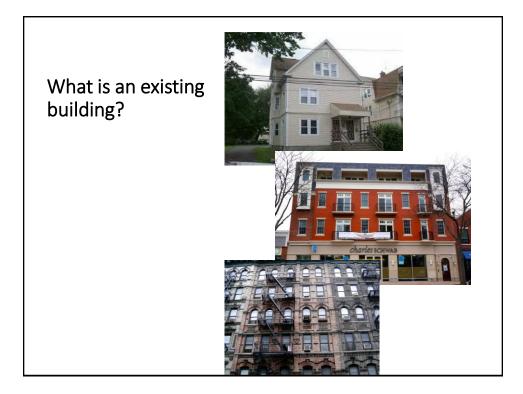


State of Connecticut Department of Administrative Services Division of Construction Services Office of Education and Data Management

*Office of Education and Data Management Spring 2017 Career Development Series* 

# Inspection of Existing Three or More Family Dwellings

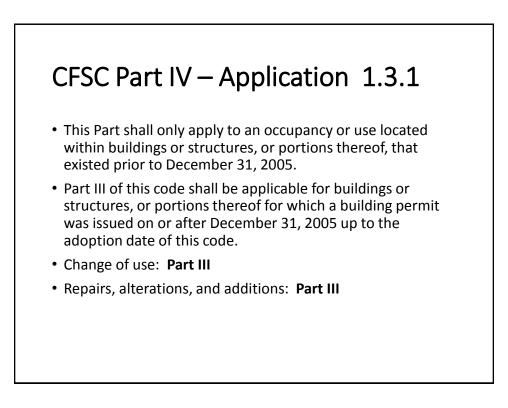
Presented by Michael Sinsigalli, DFM, West Hartford FD

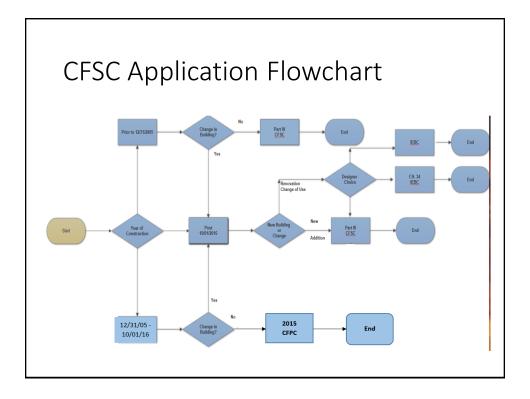


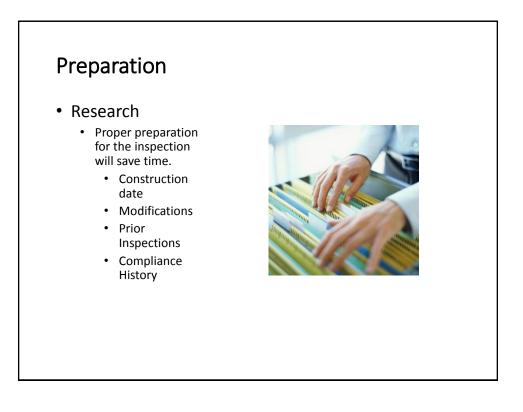
# What is the effective date of our current Connecticut Fire Safety Code?

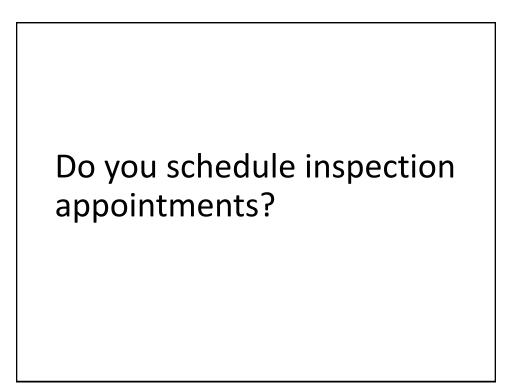
# **Existing definitions**

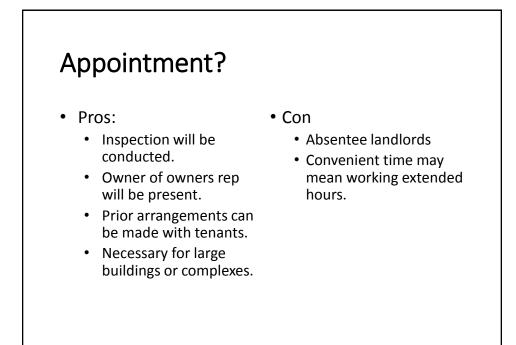
- Existing: That which is already in existence on the date <u>this edition</u> of the code goes into effect (3.3.79 CFSC, Part IV).
- Approved Existing: That which is already in existence on the date <u>this edition</u> of the code goes into effect and is acceptable to the AHJ (3.3.79.1 CFSC, Part IV).
- Existing Apartment Building: A building erected or officially authorized prior to the effective date of the adoption of this edition of the Code by the agency or jurisdiction (3.3.36.5 CFSC, Part IV).

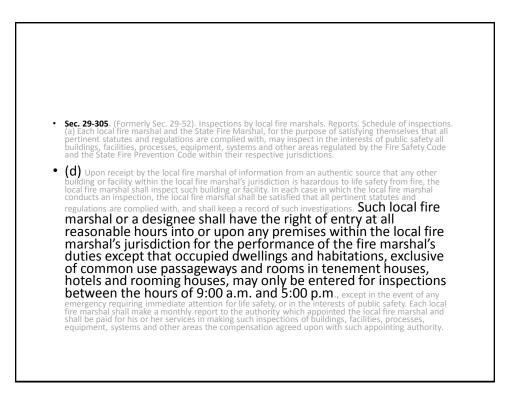


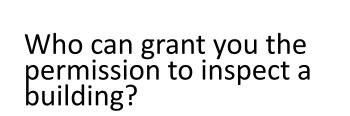










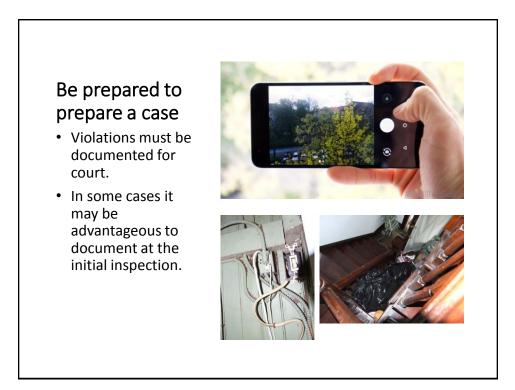


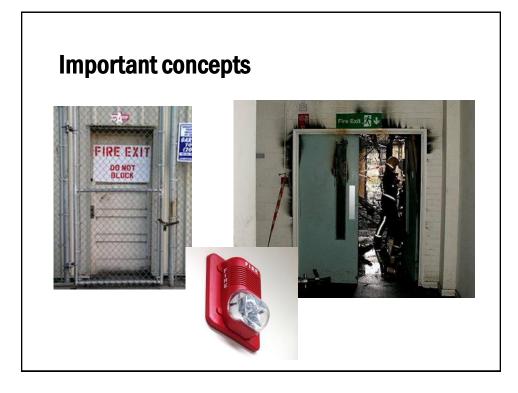
Can a landlord grant you entry into a rented dwelling unit?

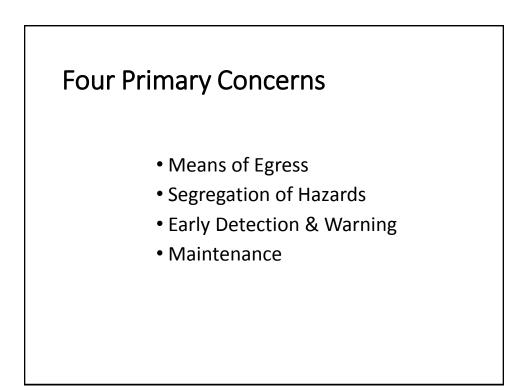


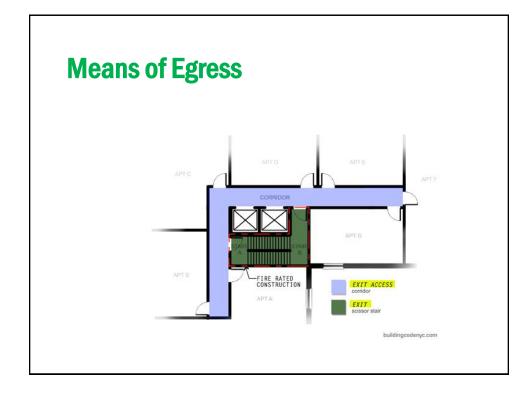
Plain view

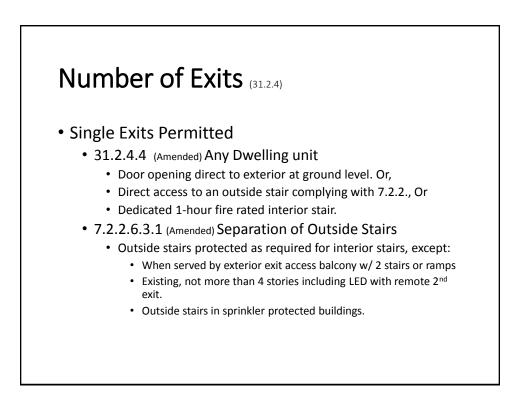








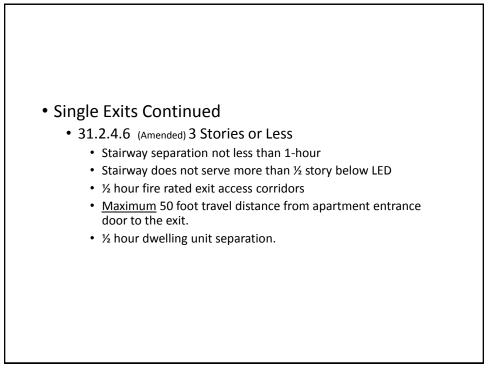


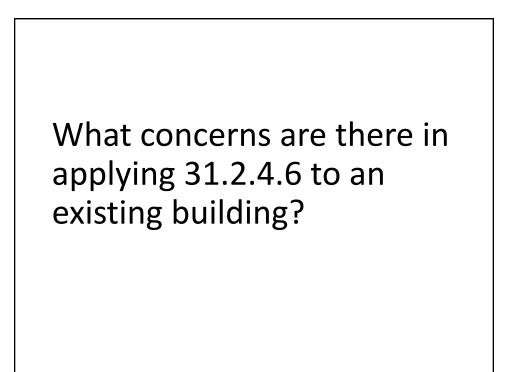


In a single exit building, when does an outside stair need to be separated from the interior of the building?



- 31.2.4.5 (Amended) 4 Stories or Less w/ Sprinklers
  - Stair is separated by 1-hour rated construction
  - Stairway does not serve more than ½ story below LED
  - 1/2 hour rated exit access corridors
  - <u>Maximum</u> 50 foot travel distance from apartment entrance door to the exit.
  - 1/2 hour dwelling unit separation.





- Ratings of existing materials are very difficult to assess.
- Evaluation of the continuity of the separation is nearly impossible



### Recommendation

Require that the property owner provide documentation from a Connecticut registered design professional that the dwelling unit separations are provided.

### Enclosure of Interior Egress Stairs

- <u>31.2.2.3.1</u>: Stairs shall comply with 7.2.2.
- <u>7.2.2.5</u>: Enclosure and protection of stairs
- <u>7.2.2.5.1.1</u>: Inside stairs shall be enclosed per 7.1.3.2

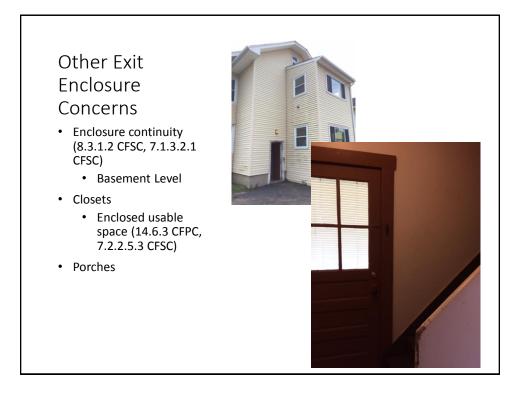


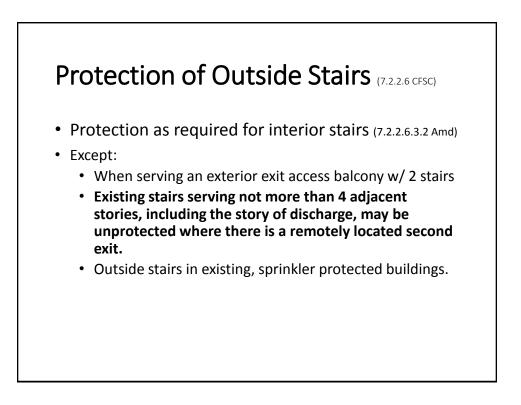
# 5.1.3.2.1 (Amd) 5.2.2.2: Fire barriers constructed per 8.3 8.3.1.1: Existing Lathe & Plaster equivalent to ½ hour enclosures. 8.3.4.3: Existing ¾ hour doors acceptable in 1 –hour enclosures. 8.3.4.3.1 (Amd): 20 minute rated or 1 ¾ inch solid wood door with other protection permitted.

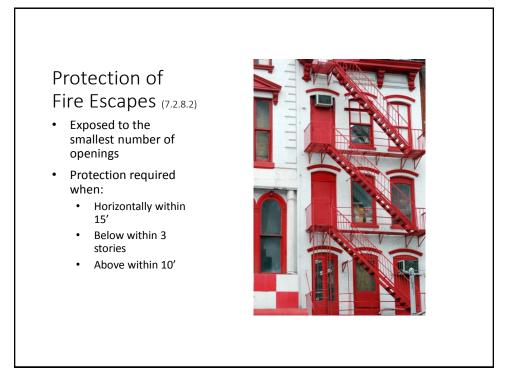
# What constitutes a highrise building?

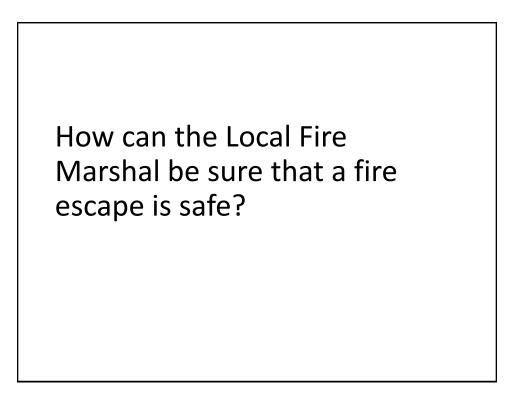
# Solid wood door allowance (8.3.4.3.1)

- 1 ¾ inch solid wood core door
- ¾ inch hardwood stock door frame
- Partial
  - Sprinkler protection
  - Fire detection
  - Installed opposite of, and on the inside of any door that opens into the exit enclosure
  - Occupant notification required per 9.6









The AHJ shall be permitted to approve any existing fire escape stair that has been shown by load test or other satisfactory evidence to have adequate strength (7.2.8.6.2 CFSC).

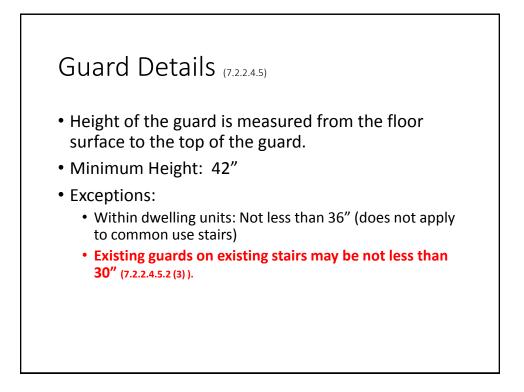
What component of the means of egress does a corridor constitute?

### Corridor Ratings (31.3.6 CFSC)

- ½ hour rated fire barrier walls.
- 20 minute fire rated doors with self-closing and positive latching devices.
- Transoms and louvers prohibited

# Stair details to worry about

- Minimum Dimensions (7.2.2.2.1.1)
  - Width: 36" (unless egress capacity demands greater)
  - Maximum Riser Height: 8"
  - Minimum Tread Depth: 9"
- Handrails (7.2.2.4.1)
  - Required on one side in existing buildings.
  - Existing buildings: 30" to 38" above the surface of the tread.
  - Grasp ability requirements of 7.2.2.4.4.6 apply.

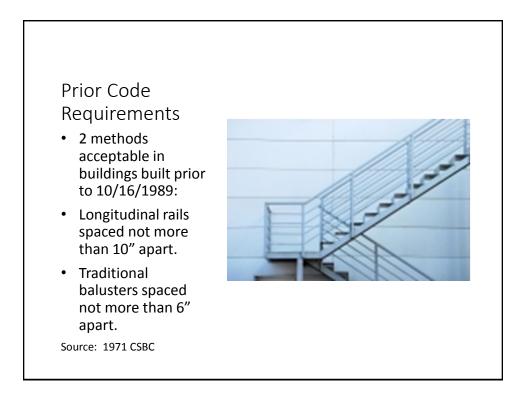


**A.7.2.2.4.5.2(3)** This reduction in required height applies only to the stair, <u>not to the landings.</u>

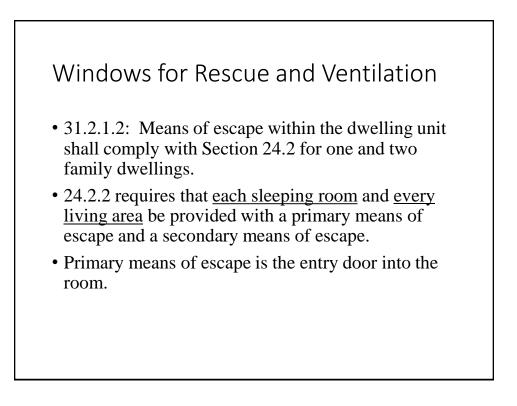
Approved Existing Open Guards  $_{\scriptscriptstyle (7.2.2.4.5.3)}$ 

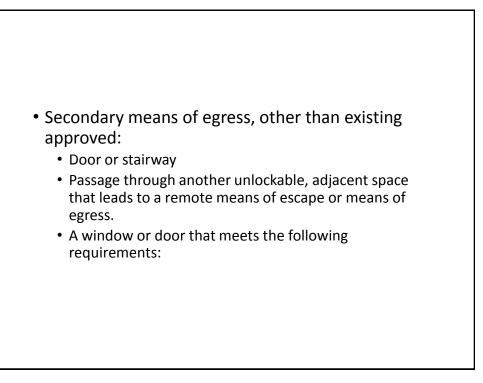
- 7.2.2.4.5.3 requires that open guards have intermediate rails or ornamental patterns that will not allow a 4" sphere to pass.
- This section exempts <u>approved existing guards.</u>

What constitutes an approved existing guard?

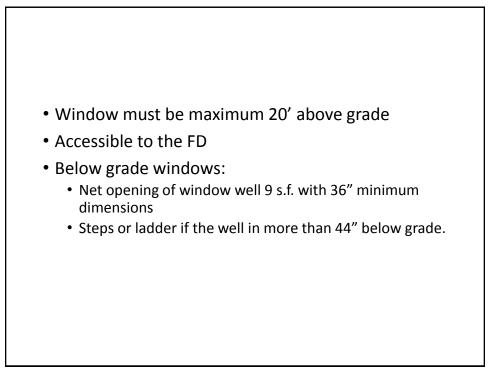


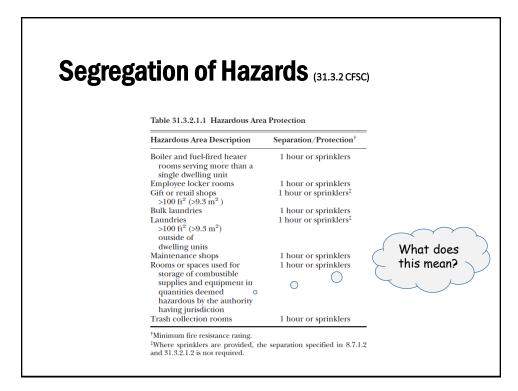


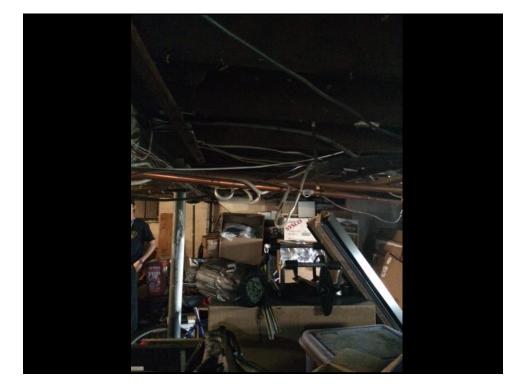














# Heating Appliances

- Residential furnaces, boilers, hot water heaters may be unenclosed when located within dwelling unit (31.3.2.1.1.1 Amd CFSC)
- Boilers, furnaces with less than 400,000 btu input rating may be unenclosed
- Unvented, fuel-fired heaters, other than those in compliance with NFPA 54, shall not be used (31.5.2.2 CFSC)
- Unvented kerosene burners and oil stoves shall not be used in any residence other than a single family detached home (11.5.2.2 Amd CFPC)

