Inspecting Existing Assembly Occupancies



Office of Education and Data Management Fall 2017 Career Development Series

Inspecting Existing Assembly Occupancies

Presented by Joseph Versteeg, Building and Fire Code Consultant

Joe Versteeg Versteeg Associates, LLC

Code Compliance & Fire Safety Consultants
86 University Drive, Torrington, CT
860-480-3951

josephversteeg@gmail.com www.versteeg-associates.com

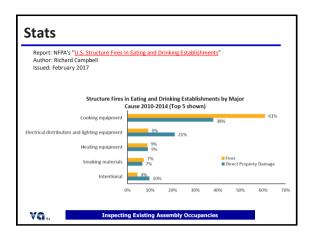


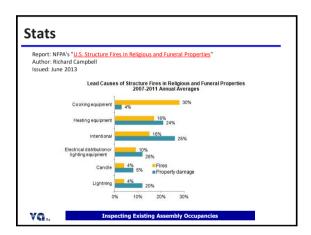
Overview

This presentation will focus on requirements governing existing assembly occupancies.

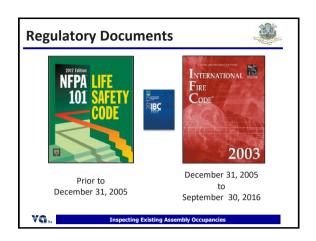
Topics include egress, seating arrangements, fire protection systems, fire drills, and crowd managers.

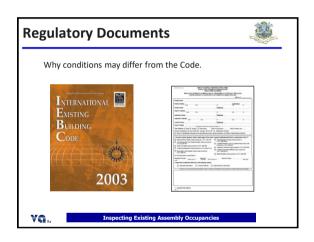
VQ...

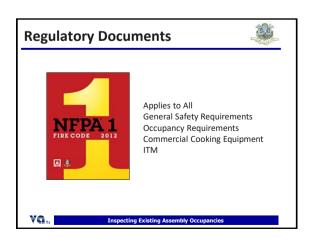




Deadliest Fires	
Iroquois Theater, Chicago, IL	Ringling Brothers circus, Hartford, CT
December 30, 1903.	July 6, 1944
Deaths: 602	Deaths: 168
Coconut Grove nightclub, Boston, MA	Beverly Hills Supper Club, Southgate, K ¹
November 28, 1942	May 28, 1977
Deaths: 492	Deaths: 165
Conway's Theater, Brooklyn, NY	The Station nightclub, W. Warwick, RI
December 5, 1876	February 20, 2003
Deaths: 285	Deaths: 100
Rhythm Club dance hall, Natchez, MS	Happy Land Social Club, Bronx, NY
April 23, 1940	March 25, 1990
Deaths: 207	Deaths: 87
Rhoads Opera House, Boyertown, PA	Richmond Theater, Richmond, VA
January 13, 1908	December 26, 1811
Deaths: 170	Deaths: 72







Inspecting Existing Assembly Occupancies

Existing Buildings, facilities, or conditions already in existence, constructed, or officially authorized prior to the adoption of this Code,

Occupancy Classification



Building or portion thereof used for a gathering of 50 or more persons for:

- · deliberation,
- · civic, social or religious functions,
- · recreation,
- · food or drink consumption
- · worship, entertainment, amusement,
- awaiting transportation, or
- similar uses

VQ.

Inspecting Existing Assembly Occupancie

	-
Occupancy Classification	
Special Amusement Buildings	
A CONTRACTOR OF THE PARTY OF TH	
Inspecting Existing Assembly Occupancies	
Occupancy Classification	
Bett.	
Exceptions to the rule:	
Where incidental to another occupancy, areas used as follows shall be permitted to be considered part	
of the predominant occupancy and shall be subject	
to the provisions of the <i>Code</i> that apply to the predominant occupancy:	
(2) Nonresidential use with an occupant load fewer	
than that established by Section 6.1 for the occupancy threshold.	
Inspecting Existing Assembly Occupancies	
]
Occupancy Classification	
Exceptions to the rule:	
A room or space used for assembly purposes by less than 50 persons and accessory to another occupancy	
shall be included as a part of that occupancy.	

Inspecting Existing Assembly Occupancies

Occupancy Classification Exceptions to the rule: Assembly areas with less than 750 square feet and which are accessory to another occupancy according to Section 302.2.1 of the Building Code are not assembly occupancies.	Occupancy Classification	
Occupancy Classification Exceptions to the rule: Assembly areas with less than 750 square feet and which are accessory to another occupancy according to Section 302.2.1 of the Building Code are not assembly occupancies.		
Exceptions to the rule: Assembly areas with less than 750 square feet and which are accessory to another occupancy according to Section 302.2.1 of the Building Code are not assembly occupancies.	Inspecting Existing Assembly Occupancies	
Exceptions to the rule: Assembly areas with less than 750 square feet and which are accessory to another occupancy according to Section 302.2.1 of the Building Code are not assembly occupancies.		
Assembly areas with less than 750 square feet and which are accessory to another occupancy according to Section 302.2.1 of the <i>Building Code</i> are not assembly occupancies.	Occupancy Classification	
which are accessory to another occupancy according to Section 302.2.1 of the Building Code are not assembly occupancies.	Exceptions to the rule:	
are not assembly occupancies.	which are accessory to another occupancy	
Inspecting Existing Assembly Occupancies	Inspecting Existing Assembly Occupancies	

Occupancy Classification Exceptions to the rule: ≤ 750 SF and Accessory to another occupancy

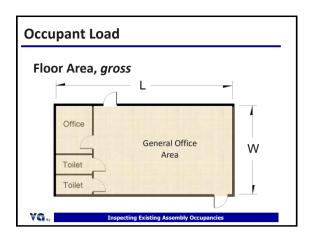
Occupancy Classification	
Exceptions to the rule:	
Assembly occupancies which are accessory to Group E in accordance with Section 302.2 of the <i>International Building Code</i> are not considered assembly occupancies.	
VG _{IIs} Inspecting Existing Assembly Occupancies	
	-
Occupancy Classification]
Exceptions to the rule:	
Assembly occupancies SOLEY accessory to an Group E occupancy	
Value Inspecting Existing Assembly Occupancies	
	-
Occupancy Classification]
Exceptions to the rule:	
Religious educational rooms and religious	
auditoriums which are accessory to churches in accordance with Section 302.2 of the <i>International</i>	
Building Code and which have occupant loads of less than 100 shall be classified as A-3.	
Inspecting Existing Assembly Occupancies	

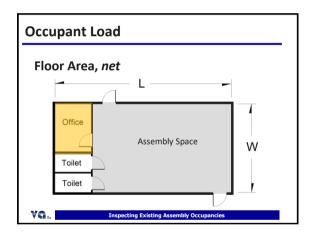
Inspecting Existing Assembly Occupancies



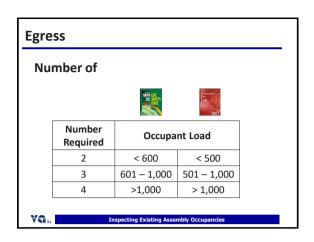


Occupant Load ft²/person Use Concentrated use, w/o fixed seating 7 net Standing Space 5 net Less concentrated use, w/o fixed seating 15 net Bench-type seating 1 person/18" Kitchens 100/50 net Library stack areas/reading rooms Swimming pools – water/deck 50/30 Exercise rooms 50 Skating rinks

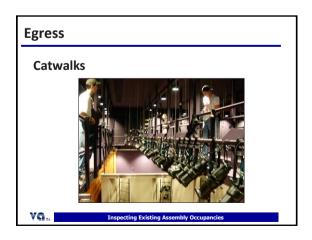






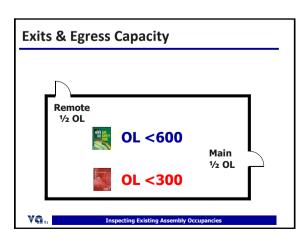


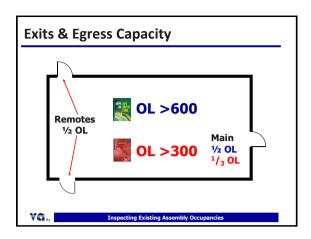


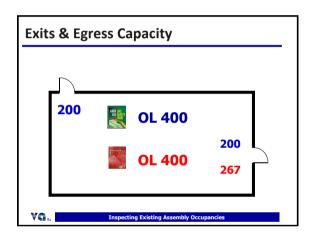


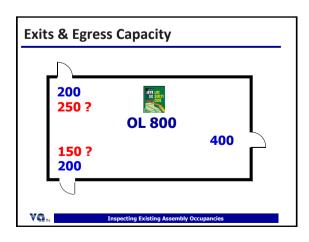


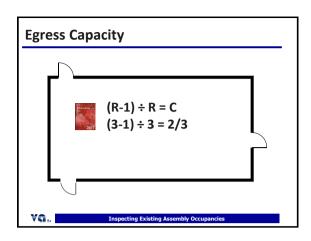




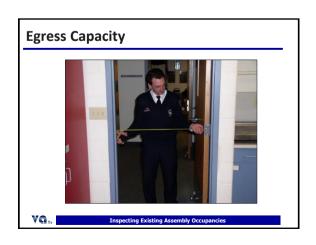


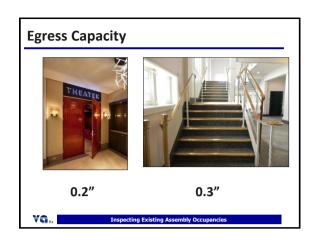


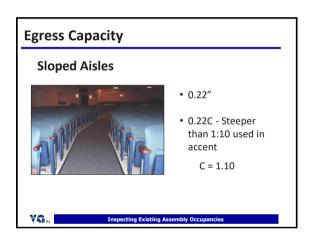


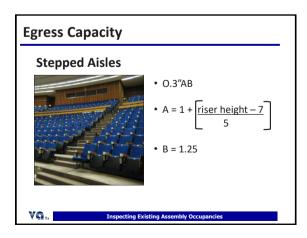








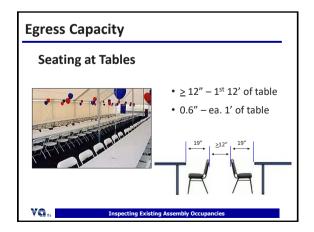




Inspecting Existing Assembly Occupancies



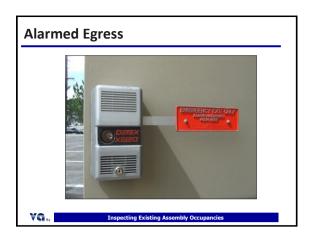
Egress Capacity Seating in Rows • ≥ 12" − 1st 14 seats • 0.3" − ea. Seat > 14 • Never more than 22"











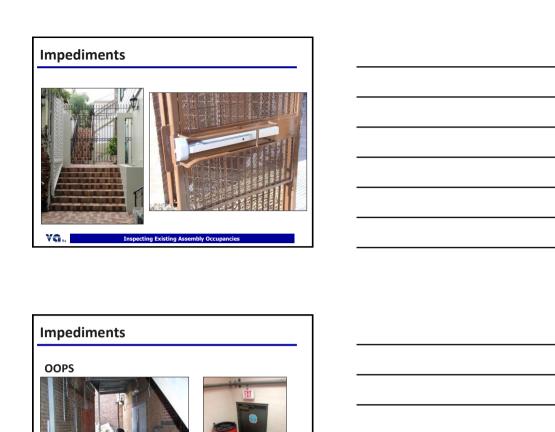




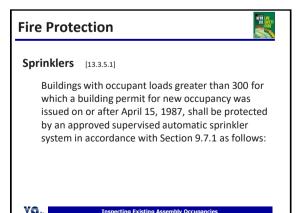


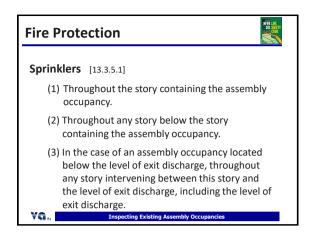


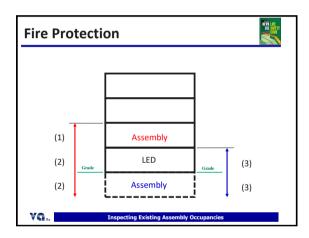


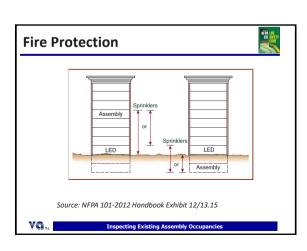












Inspecting Existing Assembly Occupancies

Fire Protection Sprinklers [13.3.5.2] Any assembly occupancy used or capable of being used for exhibition or display purposes shall be protected throughout by an approved automatic sprinkler system in accordance with Section 9.7 where the exhibition or display area exceeds 15,000 ft².





Inspecting Existing Assembly Occupancies



Fire Protection Exceptions to the rule:





Assembly occupancies used primarily for worship with fixed seating.

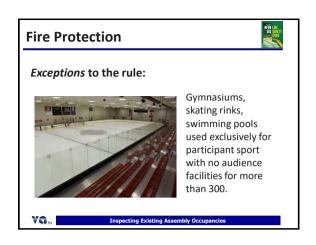
Fire Protection

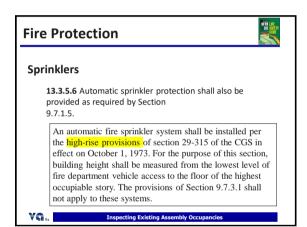


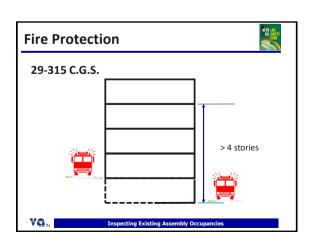
Exceptions to the rule:



Single multi-purpose room less than 12,000 SF and not used for exhibition or display.







Inspecting Existing Assembly Occupancies



Fire Protection



Sprinklers [13.3.5.1]

For Group A-1, A-2, A-3, and A-4 occupancies, the automatic sprinkler system shall be provided throughout the floor area where the Group A-1, A-2, A-3 or A-4 occupancy is located, and in all floors between the Group A occupancy and the level of exit discharge.

YQ.

Inspecting Existing Assembly Occupancies

Fire Protection



Sprinklers

Group A-1. Shall be provided where one of the following conditions exists:

- The fire area exceeds 12,000 square fee;
- The fire area has an occupant load of 300 or more:
- The fire area is located on a floor other than the level of exit discharge; or
- The fire area contains a multi-theater complex.

YQ..

Inspecting Existing Assembly Occupancies

Fire Protection



Sprinklers

Group A-2. Shall be provided where one of the following conditions exists:

- The fire area exceeds 5,000 square fee;
- The fire area has an occupant load of 300 or more:
- The fire area is located on a floor other than the level of exit discharge.

VG

Inspecting Existing Assembly Occupancies

Fire Protection



Sprinklers

Groups A-3 & A-4. Shall be provided where one of the following conditions exists:

- The fire area exceeds 12,000 square fee;
- The fire area has an occupant load of 300 or more;
- The fire area is located on a floor other than the level of exit discharge.

Except participant sports at the LED

YQ.

Inspecting Existing Assembly Occupancies

Fire Protection



Stories and basements without openings



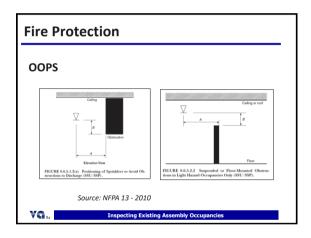
YQ...

















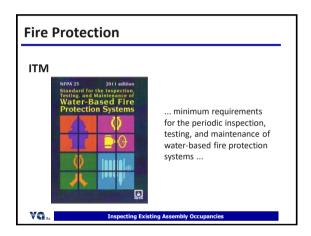


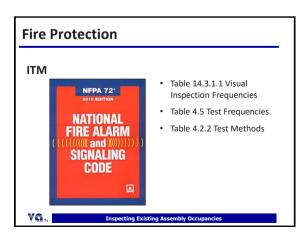


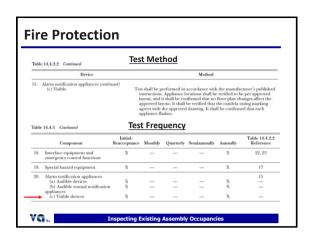








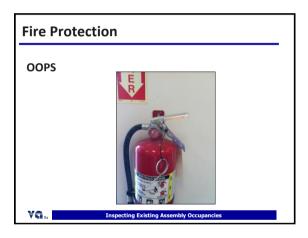




















Inspecting Existing Assembly Occupancies

Occupancy Requirements Open Flame Devices Permitted in the following situations, provided precautions satisfactory to the AHJ are taken to prevent ignition of any combustible material or injury to occupants: - ceremonial or religious purposes - stages and platforms where part of a performance - Where candles on tables are securely supported

Occupancy Requirements



Furnishings & Decorations



Combustible scenery of cloth, film, vegetation (dry), and similar materials

- NFPA 701
- NFPA 289

Foamed plastics

- NFPA 289
- AHJ approval

YQ.

Inspecting Existing Assembly Occupancies

Occupancy Requirements



Exposition Facilities



- Materials not on display
- Exhibit booth construction
- · Heat release rate limitations
- Sprinklers w/in roofed exhibits
- Cooking/food warming
- Vehicles
- · Prohibited materials

۷q.,

Inspecting Existing Assembly Occupancies



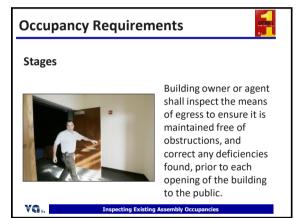
Drills employees or attendants trained & drilled in the duties they are to perform in case of fire, panic, or other emergency to effect orderly exiting.

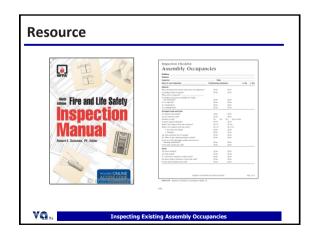
Fire extinguishers & manual fire suppression equipment

Inspecting Existing Assembly Occupancies

Occupancy Requirements

Occupancy Requirements			
Announcement of Exits			
RULES OF THE MOVIE THEATER	Audible announcement or a projected image prior to the start of each program that notifies occupants of the location of the exits - Theaters - Motion picture theaters - Auditoriums - Non-continuous programs OL > 100		
Inspecting Existing Assembly Occupancies			





Inspecting Existing Assembly Occupancies

\sim				\sim		
()ı	ıesti	Onc	α r	$(\cap n)$	1mc	ntc
ιn	1620	CH LO	w	CALIL	11116	

Thank '	You &	Goodbye
---------	-------	---------

