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- Supports NFPA programs and the fire community by providing reports and statistics on the loss of life and property from fires.
- Produces dozens of reports each year on the overall fire problem, firefighter fatalities and injuries in the United States, major fire causes, fire protection systems, and many other topics.

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Organ	ization		
Part I Part II Part III Part IV Part V Part VI Annexes	Administrative General Fire Safety Occupancy Processes Equipment Hazardous Materials	1-9 10-19 20-39 40-49 50-59 60-75	
			20



- · Several new Chapters
- Several deleted Chapters
- · Update referenced standards
- · Several deleted Annexes

· Clean up language to clarify existing provisions





























- For other than one- and two-family dwellings, no hibachi, grill, or other similar devices used for cooking, heating, or any other purpose shall be used or kindled on any balcony, under any overhanging portion, or within 10 ft. (3 m) of any structure.
- For other than one-and two-family dwellings, no hibachi, grill, or other similar devices used for cooking shall be *stored* on a balcony.
- Listed equipment permanently installed in accordance with its listing, applicable codes, and manufacturer's instructions shall be permitted.

10.11.6

Balconies

69.3.10.9.2 Cylinders having water capacities greater than 2.7 lb (1 kg) [nominal 1 lb (0.5 kg) LP-Gas capacity] shall not be located on decks or balconies of dwellings of two or more living units above the first floor unless they are served by exterior stairways. [**58**:6.19.11.2]

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Portable Generators

11.7.2

- Portable generators shall not be operated or refueled within buildings, on balconies, or on roofs.
- Portable generators shall be permitted to be operated or refueled in a building or room that has been constructed for such use in accordance with the building code.
- Fueling from a container shall be permitted when the engine is shut down and engine surface temperature is below the auto ignition temperature of the fuel.
- Portable generators shall be positioned so that the exhaust is located as follows:

(a) At least 5 ft. (1.5 m) in any direction away from any openings or air intakes

(b) The exhaust shall be directed away from the building.

















PV Plac	ement		
	One- and Two-Family		
		Ridge	
		3'	
TT I		Eave	

ment
Other than One- and Two-Family
l or w <250' 4' l or w >250' 6' skylight, ventilation hatch, standpipe 4'




















Resistance–Ra	ited Asser	mblies and	Fire-Rated O	Glazing Mar	Minim Light/	um Side Transom	e Fire-Rate Markin	d Glazing ng Side	Fire	Window
Component	Walls and Partitions (hr)	Fire Door s Assemblies (hr)	Door Vision Panel Maximum Size (in ²) ^a	Glazing Marking Door Vision Panel	Fire Protection	Rating (hr) Fire Resistance	Light/Tran Fire Protection	Fire Resistance		emblies ^{6, c} Fire-Ratec Glazing Marking Window
Elevator hoistways	2	11/2	155 in. ^{2 d}	D-H-90 or D-H-W-90	NP	2	NP	D-H-W-120	NP	W-120
	1	1	155 in. ^{2 d}	D-H-60 or D-H-W-60	NP	1	NP	D-H-W-60	NP	W-60
	1/2	1/3	85 in. ^{2 e}	D-20 or D-W-20	1/3	1/3	D-H-20	D-W-20	NP	W-30
Elevator lobby (per 7.2.13.4)	1	1	100 in. ^{2 b}	≤100 in. ² , D-H-T-60 or D-H-W-60 ^a	NP	1	NP	D-H-W-60	NP	W-60
				>100 in. ² , D-H-W-60 ^a						
Vertical shafts, including stairways,	2	1½	Maximum size tested	D-H-90 or D-H-W-90	NP	2	NP	D-H-W-120	NP	W-120
exits, and refuse chutes	1	I	Maximum size tested	D-H-60 or D-H-W-60	NP	1	NP	D-H-W-60	NP	W-60

Fire Test Standard	Marking	Definition of Marking
ASTM E119, or ANSI/UL 263 ^a	W	Meets wall assembly criteria
NFPA 257	OH	Meets fire window assembly criteria, including the hose stream test
NFPA 252	D	Meets fire door assembly criteria
	н	Meets fire door assembly hose stream test
	Т	Meets 450° F (232°C) temperature rise criteria for 30 minutes
	XXX	The time, in minutes, of fire resistance or fire protection rating of the glazing assembly



















Pump Room/House	Building(s) Exposing Pump Room/House	Required Separation	
Not sprinklered Not sprinklered Fully sprinklered	Not sprinklered Fully sprinklered Not sprinklered	2 hour fire-rated or 50 ft (15.3 m)	
Fully sprinklered	Fully sprinklered	l hour fire-rated or 50 ft (15.3 m)	

















Impaired fire alarm systems shall include required systems that are not fully operational, are no longer monitored as required by the AHJ, or are under renovation or repair.

- Owner shall immediately notify the AHJ in an approved manner when a fire alarm system is impaired.
- AHJ can require standby fire personnel or an approved fire watch
- Fire alarm systems with five or more nuisance alarms in a 365-day period shall be classified as chronic nuisance alarm prone systems.
- AHJ shall be authorized to require central station service be provided for chronic nuisance alarm prone systems.





Non-Listed Systems

13.9

13.9.1 It shall be unlawful to market, sell, advertise, or distribute any device or equipment as suitable for fire protection or fire suppression purposes unless the device or equipment is listed for such purpose by a nationally recognized testing laboratory or as otherwise permitted by 13.9.2.

13.9.2 When NFPA standards, other adopted standards, or the adopted code allow the use of non-listed fire protection or suppression equipment.















Corridor Obstructions?







Where two exits, exit <u>accesses, or exit discharges</u> are required, they shall be located at a distance from one another not less than one-half the length of the maximum overall diagonal dimension of the building or area to be served, measured in a straight line between the nearest edge of the exits, exit accesses, or exit discharges, unless otherwise provided in 14.10.1.3.3 through 14.10.1.3.5.

14.10.1.3.2*





(1) The switch controllers are listed.

(2) The switch controllers are equipped for fail-safe operation and evaluated for this purpose.

(3) The illumination timers are set for a minimum 15-minute duration.

(4) The motion sensor is activated by any occupant movement in the area served by the lighting units.

(5) The switch controller is activated by activation of the building fire alarm system, if provided.





Emergency Light Testing

14.13.2.1.2 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

(1) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided.
(2) Not less than once every 30 days, self-testing/self diagnostic battery-operated emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.

(3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator.

(4) A visual inspection shall be performed at intervals not exceeding 30 days.

(5) Functional testing shall be conducted annually for a minimum of 1 1/2 hours.

(6) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the 1 1/2 hour test.

(7) Written records of visual inspections and tests shall be kept by the owner for inspection by the AHJ. [101:7.9.3.1.2]

Emergency Light Testing

14.13.2.1.3 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

(1) Computer-based, self-testing/self-diagnostic battery operated emergency lighting equipment shall be provided.

(2) Not less than once every 30 days, emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.

(3) The emergency lighting equipment shall automatically perform annually a test for a minimum of 1 1/2 hours.

(4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 14.13.2.1.3(2) and 14.13.2.1.3(3).

(5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.





















































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Chapter 42 - Refueling

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42.3.3.2.7 The provisions of this subsection shall not prohibit the dispensing of liquid motor fuels in the open from a fuel dispensing system supplied by an existing aboveground tank, not to exceed 6000 gal (22,710 L), located at commercial, industrial, government, or manufacturing establishments, and intended for fueling vehicles used in connection with their business. Such dispensing shall be permitted provided the following conditions are met:







Chapter 42 Refueling

42.5.3.6.2* Internal Dispenser Cabinet Inspection. An inspection of the fuel dispensing equipment that is located inside the dispenser cabinet shall be conducted.

- inspected for signs of leaks, damage, corrosion, or weathering, with particular attention to the sump area and joints and castings of fluid handling components.
- · conducted at least monthly and shall be documented.
- Documentation shall be available for review by the authority having jurisdiction upon request.






Regen Area

- Area shall be concrete or other high temperature–resistant material and shall be clear of any grass, soil, or flammable materials
- Remote location that is a minimum of 100 ft. (30 m) from the nearest aircraft parking location, airport terminal, or flammable storage or a minimum of 50 ft. (15 m) from any other building.
- Clearly marked with a minimum 2 ft. by 1 ft. (61 cm by 30 cm) sign reading "Vehicle DPF Regeneration Area," letters at least 3 in. (75 mm) high and color contrasting sign background.

Regen Area - cont.

- Regeneration cycle shall be performed only by trained personnel, who shall remain with the vehicle until the regeneration cycle is complete.
- Vehicle shall be visually inspected for any signs of fluid leaks under or around the vehicle before regeneration is initiated. DPF regeneration shall not be initiated if there are any signs of any fluid leaks on or beneath the vehicle.
- Once a regeneration cycle is started, it shall be completed without interruption.

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- After the regeneration process is successfully completed, the vehicle shall be permitted to return to normal service.
- Problems occurring during the regeneration cycle shall be corrected prior to the vehicle returning to normal service.
- Aircraft refueling operations shall not be initiated if the regenerative system indicates regeneration is required.















Chapter 50 – Commercial Cooking Equipment

50.4.4.7 Modifications to Existing Hood Systems.

50.4.4.7.1 Any abandoned pipe or conduit from a previous installation shall be removed from within the hood, plenum, and exhaust duct.

50.4.4.7.2 Penetrations and holes resulting from the removal of conduit or piping shall be sealed with listed or equivalent liquidtight sealing devices.

50.4.4.7.3 The addition of obstructions to spray patterns from the cooking appliance nozzle(s) such as baffle plates, shelves, or any modification shall not be permitted.

50.4.4.7.4 Changes or modifications to the hazard after installation of the fireextinguishing systems shall result in reevaluation of the system design by a properly trained, qualified, and certified person(s).

Cooking Equipment Maintenance

50.5.7.1 Inspection and servicing of the cooking equipment shall be made at least annually by properly trained and qualified persons.

50.5.7.2 Cooking equipment that collects grease below the surface, behind the equipment, or in cooking equipment flue gas exhaust, such as griddles or charbroilers, shall be inspected and, if found with grease accumulation, cleaned by a properly trained, qualified, and certified person acceptable to the AHJ.

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- Educational use Table 60.4.2.1.3
- Flammable Solid 5lb
- Control Areas Table 60.4.2.2.1
- 2nd floor 75% MAQ, 3 permitted, 1 hour FRR

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• 5(.75)=3.75

• What can we do?

Table 60.4.2.1.3 Maximum Allowable Quantities (MAQ) of Hazardous Materials per Control Area in Educational Occupancies Gasa Material Class Solid Liquid^m (at NTP) Flammable and combustible liquid^{b,c,n} See note See note See note See note 10 gal 10 gal Cryogenic fluid Flammable NA NA NA NA Oxidizing Explosives^{d,e,f,g} See note See note See note See note Flammable gas^{c,h} NP NP NP NA Gaseous NP 20 lb Liquefied Consumer fireworks See note See note See note See note Flammable solid NA 5 lb N/A N/A 170















Management of Security

66.6.10.3.3 A written emergency action plan that is consistent with available equipment and personnel shall be established to respond to fires, security, and related emergencies. This plan shall include the following:

(1) Procedures to be followed such as initiating alarms, notifying appropriate agencies, evacuating personnel, and controlling and extinguishing the fire

(2) Procedures and schedules for conducting drills of these procedures

(3) Appointment and training of personnel to carry out assigned duties

(4) Maintenance of fire protection and response equipment

(5) Procedures for shutting down or isolating equipment to reduce the release of liquid

(6) Alternate measures for the safety of occupants

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Management of Security

66.6.10.3.5 The security management review conducted in accordance with this section shall be repeated under the following conditions:

(1) For an initial review of all new relevant facilities and assets

(2) When substantial changes to the threat or process occur

(3) After a significant security incident

(4) For periodic revalidation of the SVA

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