



Second Revision No. 54-NFPA 1-2022 [Detail]

Table 1.13.8(a) - Update all cross references to permitting requirements. See attached word doc.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
SR_54_T1.13.8_a_CrossReferences_for_ballot.docx	For ballot	

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Thu Mar 24 14:25:50 EDT 2022

Committee Statement

Committee Statement: The changes to the cross references are to update to the correct sections.

Cross reference to 1.7.12.6 was added for Automatic fire suppression systems, fire alarm and detection systems and related equipment, fire pumps and related equipment, and standpipe systems. This is providing a cross reference in the table to the existing permitting requirements for fire protection systems in 1.7.12.6.

Response Message: SR-54-NFPA 1-2022

Table 1.13.8(a) Permit Requirements

Operations and Materials	Permit Required	Cross Reference Section Number
Additive manufacturing	To conduct industrial additive manufacturing operations	46.1.2
Aerosol products	To store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 lb (226.8 kg)	61.1.2
Aircraft fuel servicing	To provide aircraft fuel servicing	42.10.1.2 42.1.2
Aircraft hangars	For servicing or repairing aircraft	21.1.1
Aircraft refueling vehicles	To operate aircraft refueling vehicles	42.10.1.2 42.1.2
Airport terminal buildings	For construction and alteration	21.2.2.1
Ammonium nitrate	For storage	Chapter 74 74.1.3
Amusement parks	For construction, alteration, or operation of amusement park fire protection safety features	10.15.1 10.14.1
Asbestos removal	For the removal of asbestos	16.8.2 16.9.2
Automatic fire suppression systems	For installation, modification, or removal from service of any automatic fire suppression system*	13.1.1.1; 50.4.2; 1.7.12.6
Automobile wrecking yards	To operate automobile wrecking yards	22.2
Automotive fuel servicing	To provide automotive fuel servicing	42.2.2.1; 42.11.2.2.4; 42.11.3.1 42.1.2
Battery systems	To install or operate stationary lead-acid battery systems having an electrolyte capacity of more than 100 gal (378.5 L) in sprinklered buildings or 50 gal (189.3 L) in nonsprinklered buildings	52.25 52.1.3
Candles, open flames, and portable cooking	To use in connection with assembly areas, dining areas of restaurants, or drinking establishments	17.3.2; 20.1.1.1
Carnivals and fairs	To conduct a carnival or fair	10.15.1 10.14.1
Cellulose nitrate film	To store, handle, use, or display	20.15.7.2
Cellulose nitrate plastic	To store or handle more than 25 lb (11.3 kg)	43.1.1.4 43.1.1.7
Change of occupancy	For the change of occupancy classification of an existing building	1.7.11.5 1.7.12.5
Cleanrooms	For construction, alteration, or operation	23.3
Combustible fibers	For storage or handling of combustible fibers greater than 100 ft ³ (2.8 m ³)	45.1.3 45.1.4

Operations and Materials	Permit Required	Cross Reference Section Number
Combustible material storage	To store more than 2500 ft ³ (70.8 m ³) gross volume	10.19.2; 19.1.1; 31.2
Commercial rubbish-handling operation	To operate	19.1.1
Compressed gases	1. To store, use, or handle compressed gases in excess of the amounts listed in Table 1.13.8(b) 2. When the compressed gases in use or storage exceed the amounts listed in Table 1.13.8(b), a permit is required to install, repair damage to, abandon, remove, place temporarily out of service, close, or substantially modify a compressed gas system 3. For additional permit requirements for compressed gases facility closures, see 63.1.2 4. Insulated liquid carbon dioxide (CO₂) systems in accordance with 63.9.2	63.1.2; 63.9.2
Construction	For the construction of a building or structure	4.7.11.8 1.7.12.2
Covered mall buildings	Annual requirement for facilities that utilize mall area for exhibits or displays with four conditions	20.1.5.5.1
Crop maze	To operate a crop maze	40.14.11.1 10.14.12.1
Cryogenics	To produce, store, or handle cryogenics in excess of amounts listed in Table 1.13.8(c) <i>Exception: Where federal or state regulations apply or for fuel systems of a vehicle.</i>	63.1.2
Cutting and welding operation	For operations within a jurisdiction	41.1.5; 41.3.2.2 ; 41.3.2.2.2 41.3.5
Display fireworks (1.3G)	For possession, transportation, storage, manufacture, sale, handling, and discharge of display fireworks within the jurisdiction	65.2.3; 65.5.2
Drycleaning plants	To engage in business of drycleaning or to change to a more hazardous cleaning solvent	24.2
Dust-producing operations	To operate a grain elevator, flour mill, starch mill, feed mill, or plant pulverizing aluminum, coal, cocoa, magnesium, spices, sugar, or other similar combustible material	40.2

Operations and Materials	Permit Required	Cross Reference Section Number
Energy storage systems, including battery stationary storage systems and capacitor energy storage systems	To install and operate energy storage systems exceeding Table 52.2.1 and Table 52.3.1	52.4.2 52.1.3
Exhibit and trade shows	For operation of all exhibits and trade shows held within a jurisdiction	20.1.5.5.1
Explosives	1. Manufacture, sell, dispose, purchase, storage, use, possess, or transport of explosives within the jurisdiction 2. For additional permit requirements for blasting operations, see 65.9.2	65.9.2
Fire alarm and detection systems and related equipment	For installation, modification, or removal from service of any fire alarm and detection systems and related equipment*	13.1.1.1; 1.7.12.6
Fire apparatus access roads	For the construction of a fire apparatus access road	18.1.2
Fire hydrants and water-control valves	To use a fire hydrant or operate a water-control valve intended for fire suppression purposes	13.1.1.1
Fire pumps and related equipment	For installation of, modification to, or removal from service of any fire pumps, jockey pumps, controllers, and generators*	13.1.1.1; 1.7.12.6
Flame effects	Use of flame effects before an audience	65.4.2
Flammable and combustible liquids	1. To use or operate, repair, or modify a pipeline for the on-site transportation of flammable or combustible liquids 2. To store, handle, or use Class I liquids in excess of 5 gal (18.9 L) in a building or in excess of 10 gal (37.9 L) outside of a building <i>Exception to item (2): A permit is not required for the following:</i> <i>(a) The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant, or mobile heating plant unless such storage in the opinion of the chief would cause an unsafe condition</i>	66.1.5

Operations and Materials	Permit Required	Cross Reference Section Number
	<i>(b) The storage or use of paints, oils, varnishes, or similar flammable mixtures when such liquids are stored for maintenance, painting, or similar purposes for a period of not more than 30 days</i> 3. To store, handle, or use Class II or Class III-A liquids in excess of 25 gal (94.6 L) in a building or in excess of 60 gal (227.1 L) outside a building <i>Exception to item (3): Fuel oil used in connection with oil-burning equipment</i> 4. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes 5. To install, construct, alter, or operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel-dispensing stations, refineries, distilleries, and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed, or used 6. To install, alter, clean, repair, line with a protective coating, remove, abandon, place temporarily out of service, or otherwise dispose of a flammable or combustible liquid tank 7. To change the type of contents stored in a flammable or combustible liquid tank to a material other than those for which the tank was designed and constructed	
Fruit ripening	To operate a fruit-ripening process	63.1.2
General storage	To store materials indoors or outdoors, representing a broad range of combustibles, including plastics, rubber tires, and roll paper	34.1.2
Grandstands, bleachers, and folding and telescopic seating	For construction, location, erection, or placement of grandstands, bleachers, and folding and telescopic seating	25.1.2
Hazardous materials	1. To store, transport on site, dispense, use, or handle hazardous materials in excess of the amounts listed in Table 1.13.8(d)	Chapter 6060.1.3

Operations and Materials	Permit Required	Cross Reference Section Number
	2. To install, repair, abandon, remove, place temporarily out of service, close, or substantially modify a storage facility or other area regulated by Chapter 60 when the hazardous materials in use or storage exceed the amounts listed in Table 1.13.8(d)	
High-piled combustible storage	To use any building or portion thereof as a high-piled storage area exceeding 500 ft ² (46.45 m ²)	20.15.8.2
High-powered rocketry	For the manufacture, sale, and use of high-powered rocketry	65.8.2; 65.7.2
Hot work operations	To conduct hot work	17.3.2; 41.1.5; 41.3.4
In-building emergency responder communications enhancement systems	To install and operate an in-building emergency responder communication enhancement system	11.10.1
Industrial ovens and furnaces	For operation of industrial ovens and furnaces covered by Chapter 51	51.1.2
Laboratories	For construction, alteration, or operation	26.3 26.2
Liquefied petroleum gases	1. To store, use, handle, or dispense LP-Gas of 125 gal (0.5 m ³) (water capacity) aggregate capacity or greater 2. To install or modify LP-Gas systems	42.11.2.2 42.1.2 69.1.2
Liquid- or gas-fueled vehicles	To display, compete, or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings	20.1.5.5.1
Lumberyards and woodworking plants	For storage of lumber exceeding 100,000 board ft	31.2
Cannabis growing, processing, or extraction facilities	For the construction, alteration, or operation of a cannabis growing, processing, or extraction facility	38.2
Marine craft fuel servicing	To provide marine craft fuel servicing	42.9.1 41.1.2
Means of egress	For the modification of a means of egress system in an existing building	1.7.11.6 1.7.12.6
Membrane structures, tents, and canopies — permanent	For construction, location, erection, or placement	25.1.2

Operations and Materials	Permit Required	Cross Reference Section Number
Membrane structures, tents, and canopies — temporary	To erect or operate an air-supported temporary membrane structure or tent having an area in excess of 200 ft ² (18.6 m ²) or a canopy in excess of 400 ft ² (37.2 m ²) <i>Exception: Temporary membrane structures, tents, or canopy structures used exclusively for camping.</i>	25.1.2
Mobile cooking operations	To conduct mobile cooking operations	50.7
Motion picture and television production studio soundstages and approved production facilities	To design, construct, operate, and maintain soundstages and approved production facilities used in motion picture and television industry productions	32.2
Oil- and gas-fueled heating appliances	To install oil- and gas-fired heating appliances	11.5.1.8
On-demand mobile fueling	To conduct on-demand mobile fueling operations	42.1.2 ; 42.12
Open burning	1. To conduct open burning 2. For additional permit requirements for open burning, see 10.11.1	10.11.1
Open fires	1. For kindling or maintaining an open fire 2. For additional permit requirements for open fires, see 10.11.4†	10.11.1 10.10.4
Organic coatings	For operation and maintenance of a facility that manufactures organic coatings	43.1.1.4 43.1.1.7
Organic peroxide formulations	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.13.8(c) and (d)	Chapter 75 75.1.3
Outside storage of tires	To store more than 500 tires outside	33.1.2
Oxidizers	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 4.42.81.13.8(c) and (d)	Chapter 70 70.1.4
Parade floats	To use a parade float for public performance, presentation, spectacle, entertainment, or parade	10.17.1
Photovoltaic systems	Installation and placement	11.12.1.2
Places of assembly	To operate a place of assembly	10.15.1 10.14.1 ; 20.1.1.1
Pyrotechnic articles	For the manufacture, storage, sale, or use of pyrotechnic articles within the jurisdiction	65.2.3; 65.3.3; 65.5.2

Operations and Materials	Permit Required	Cross Reference Section Number
Pyrotechnics before a proximate audience	For the display and use of pyrotechnic materials before a proximate audience	65.3.3
Pyroxylin plastics	For storage, handling, assembly, or manufacture of pyroxylin plastics	43.1.1.4 43.1.1.7
Private fire hydrants	For installation, modification, or removal from service of any private fire hydrants	13.1.1.1
Refrigeration equipment	To install or operate a mechanical refrigeration unit or system regulated by this <i>Code</i>	53.1.3 53.1.2
Repair garages and service stations	For operation of service stations and repair garages	30.1.1.3; 30.2.1.1
Rocketry manufacturing	For the manufacture of model rocket motors	65.7.2
Rooftop heliports	For construction, modification, or operation of a rooftop heliport	21.3.2.1
Solvent extraction	For storage, use, and handling	44.3
Spraying or dipping of flammable finish	For installation or modification of any spray room, spray booth, or preparation work station, or to conduct a spraying or dipping operation utilizing flammable or combustible liquids or powder coating	43.1.1.4 43.1.1.7
Standpipe systems	For installation, modification, or removal from service of any standpipe system*	13.1.1.1; 1.7.12.6
Special outdoor events	For the location and operation of special outdoor events	10.15.1 10.14.1
Tar kettles	To place a tar kettle, a permit must be obtained prior to the placement of a tar kettle	16.7.1.2 16.8.1.2 ; 17.3.2
Tire storage	To use an open area or portion thereof to store tires in excess of 500 tires	33.1.2; 34.1.2
Torch-applied roofing operation	For the use of a torch for application of roofing materials	16.6.1 16.7.1
Water supply system for fire flow	For the construction of a water supply system for fire flow	18.1.2
Wildland-fire-prone areas	For use of hazardous areas within fire-prone areas	17.3.2
Wood products	To store wood chips, hogged material, wood by-products, lumber, or plywood in excess of 200 ft ³ (5.7 m ³)	31.2

*Maintenance performed in accordance with this *Code* is not considered a modification and does not require a permit.

†Cooking and recreational fires are exempt and do not require a permit.



Second Revision No. 55-NFPA 1-2022 [Detail]

Table 1.13.8(a) - Delete the line item for "Open Buring" and add reference to 10.10.1 to "Open Fires." See attached word doc.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
NFPA_1_SR_55_T1.13.8_a_OpenBurning_for_ballot.docx	For ballot	

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Thu Mar 24 14:41:30 EDT 2022

Committee Statement

Committee Statement: The term "opening burning" is not used in the Code and redundant under Open Fire, therefore, the requirements have been consolidated under the Open Fires permit requirements in the table.

Response Message: SR-55-NFPA 1-2022

Table 1.13.8(a) Permit Requirements

Operations and Materials	Permit Required	Cross Reference Section Number
Additive manufacturing	To conduct industrial additive manufacturing operations	46.1.2
Aerosol products	To store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 lb (226.8 kg)	61.1.2
Aircraft fuel servicing	To provide aircraft fuel servicing	42.10.1.2
Aircraft hangars	For servicing or repairing aircraft	21.1.1
Aircraft refueling vehicles	To operate aircraft refueling vehicles	42.10.1.2
Airport terminal buildings	For construction and alteration	21.2.2.1
Ammonium nitrate	For storage	Chapter 74
Amusement parks	For construction, alteration, or operation of amusement park fire protection safety features	10.15.1
Asbestos removal	For the removal of asbestos	16.8.2
Automatic fire suppression systems	For installation, modification, or removal from service of any automatic fire suppression system*	13.1.1.1; 50.4.2
Automobile wrecking yards	To operate automobile wrecking yards	22.2
Automotive fuel servicing	To provide automotive fuel servicing	42.2.2.1; 42.11.2.2.4; 42.11.3.1
Battery systems	To install or operate stationary lead-acid battery systems having an electrolyte capacity of more than 100 gal (378.5 L) in sprinklered buildings or 50 gal (189.3 L) in nonsprinklered buildings	52.2
Candles, open flames, and portable cooking	To use in connection with assembly areas, dining areas of restaurants, or drinking establishments	17.3.2; 20.1.1.1
Carnivals and fairs	To conduct a carnival or fair	10.15.1
Cellulose nitrate film	To store, handle, use, or display	20.15.7.2
Cellulose nitrate plastic	To store or handle more than 25 lb (11.3 kg)	43.1.1.4
Change of occupancy	For the change of occupancy classification of an existing building	1.7.11.5
Cleanrooms	For construction, alteration, or operation	23.3
Combustible fibers	For storage or handling of combustible fibers greater than 100 ft ³ (2.8 m ³)	45.1.3

Operations and Materials	Permit Required	Cross Reference Section Number
Combustible material storage	To store more than 2500 ft ³ (70.8 m ³) gross volume	10.19.2; 19.1.1; 31.2
Commercial rubbish-handling operation	To operate	19.1.1
Compressed gases	1. To store, use, or handle compressed gases in excess of the amounts listed in Table 1.13.8(b) 2. When the compressed gases in use or storage exceed the amounts listed in Table 1.13.8(b), a permit is required to install, repair damage to, abandon, remove, place temporarily out of service, close, or substantially modify a compressed gas system 3. For additional permit requirements for compressed gases facility closures, see 63.1.2 4. Insulated liquid carbon dioxide (CO₂) systems in accordance with 63.9.2	63.1.2; 63.9.2
Construction	For the construction of a building or structure	1.7.11.8
Covered mall buildings	Annual requirement for facilities that utilize mall area for exhibits or displays with four conditions	20.1.5.5.1
Crop maze	To operate a crop maze	10.14.11.1
Cryogenics	To produce, store, or handle cryogenics in excess of amounts listed in Table 1.13.8(c) <i>Exception: Where federal or state regulations apply or for fuel systems of a vehicle.</i>	63.1.2
Cutting and welding operation	For operations within a jurisdiction	41.1.5; 41.3.2.2; 41.3.2.2.2
Display fireworks (1.3G)	For possession, transportation, storage, manufacture, sale, handling, and discharge of display fireworks within the jurisdiction	65.2.3; 65.5.2
Drycleaning plants	To engage in business of drycleaning or to change to a more hazardous cleaning solvent	24.2
Dust-producing operations	To operate a grain elevator, flour mill, starch mill, feed mill, or plant pulverizing aluminum, coal, cocoa, magnesium, spices, sugar, or other similar combustible material	40.2

Operations and Materials	Permit Required	Cross Reference Section Number
Energy storage systems, including battery stationary storage systems and capacitor energy storage systems	To install and operate energy storage systems exceeding Table 52.2.1 and Table 52.3.1	52.1.2
Exhibit and trade shows	For operation of all exhibits and trade shows held within a jurisdiction	20.1.5.5.1
Explosives	1. Manufacture, sell, dispose, purchase, storage, use, possess, or transport of explosives within the jurisdiction 2. For additional permit requirements for blasting operations, see 65.9.2	65.9.2
Fire alarm and detection systems and related equipment	For installation, modification, or removal from service of any fire alarm and detection systems and related equipment*	13.1.1.1
Fire apparatus access roads	For the construction of a fire apparatus access road	18.1.2
Fire hydrants and water-control valves	To use a fire hydrant or operate a water-control valve intended for fire suppression purposes	13.1.1.1
Fire pumps and related equipment	For installation of, modification to, or removal from service of any fire pumps, jockey pumps, controllers, and generators*	13.1.1.1
Flame effects	Use of flame effects before an audience	65.4.2
Flammable and combustible liquids	1. To use or operate, repair, or modify a pipeline for the on-site transportation of flammable or combustible liquids 2. To store, handle, or use Class I liquids in excess of 5 gal (18.9 L) in a building or in excess of 10 gal (37.9 L) outside of a building <i>Exception to item (2): A permit is not required for the following:</i> <i>(a) The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant, or mobile heating plant unless such storage in the opinion of the chief would cause an unsafe condition</i>	66.1.5

Operations and Materials	Permit Required	Cross Reference Section Number
	<i>(b) The storage or use of paints, oils, varnishes, or similar flammable mixtures when such liquids are stored for maintenance, painting, or similar purposes for a period of not more than 30 days</i> 3. To store, handle, or use Class II or Class III-A liquids in excess of 25 gal (94.6 L) in a building or in excess of 60 gal (227.1 L) outside a building <i>Exception to item (3): Fuel oil used in connection with oil-burning equipment</i> 4. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes 5. To install, construct, alter, or operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel-dispensing stations, refineries, distilleries, and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed, or used 6. To install, alter, clean, repair, line with a protective coating, remove, abandon, place temporarily out of service, or otherwise dispose of a flammable or combustible liquid tank 7. To change the type of contents stored in a flammable or combustible liquid tank to a material other than those for which the tank was designed and constructed	
Fruit ripening	To operate a fruit-ripening process	63.1.2
General storage	To store materials indoors or outdoors, representing a broad range of combustibles, including plastics, rubber tires, and roll paper	34.1.2
Grandstands, bleachers, and folding and telescopic seating	For construction, location, erection, or placement of grandstands, bleachers, and folding and telescopic seating	25.1.2
Hazardous materials	1. To store, transport on site, dispense, use, or handle hazardous materials in excess of the amounts listed in Table 1.13.8(d)	Chapter 60

Operations and Materials	Permit Required	Cross Reference Section Number
	2. To install, repair, abandon, remove, place temporarily out of service, close, or substantially modify a storage facility or other area regulated by Chapter 60 when the hazardous materials in use or storage exceed the amounts listed in Table 1.13.8(d)	
High-piled combustible storage	To use any building or portion thereof as a high-piled storage area exceeding 500 ft ² (46.45 m ²)	20.15.8.2
High-powered rocketry	For the manufacture, sale, and use of high-powered rocketry	65.8.2; 65.7.2
Hot work operations	To conduct hot work	17.3.2; 41.1.5; 41.3.4
In-building emergency responder communications enhancement systems	To install and operate an in-building emergency responder communication enhancement system	11.10.1
Industrial ovens and furnaces	For operation of industrial ovens and furnaces covered by Chapter 51	51.1.2
Laboratories	For construction, alteration, or operation	26.3
Liquefied petroleum gases	1. To store, use, handle, or dispense LP-Gas of 125 gal (0.5 m ³) (water capacity) aggregate capacity or greater	42.11.2.2.4
	2. To install or modify LP-Gas systems	69.1.2
Liquid- or gas-fueled vehicles	To display, compete, or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings	20.1.5.5.1
Lumberyards and woodworking plants	For storage of lumber exceeding 100,000 board ft	31.2
Cannabis growing, processing, or extraction facilities	For the construction, alteration, or operation of a cannabis growing, processing, or extraction facility	38.2
Marine craft fuel servicing	To provide marine craft fuel servicing	42.9.1.4
Means of egress	For the modification of a means of egress system in an existing building	1.7.11.6
Membrane structures, tents, and canopies — permanent	For construction, location, erection, or placement	25.1.2

Operations and Materials	Permit Required	Cross Reference Section Number
Membrane structures, tents, and canopies — temporary	To erect or operate an air-supported temporary membrane structure or tent having an area in excess of 200 ft ² (18.6 m ²) or a canopy in excess of 400 ft ² (37.2 m ²) <i>Exception: Temporary membrane structures, tents, or canopy structures used exclusively for camping.</i>	25.1.2
Mobile cooking operations	To conduct mobile cooking operations	50.7
Motion picture and television production studio soundstages and approved production facilities	To design, construct, operate, and maintain soundstages and approved production facilities used in motion picture and television industry productions	32.2
Oil- and gas-fueled heating appliances	To install oil- and gas-fired heating appliances	11.5.1.8
On-demand mobile fueling	To conduct on-demand mobile fueling operations	42.12
Open burning -	1. To conduct open burning 2. For additional permit requirements for open burning, see 10.11.1	10.11.1 -
Open fires	1. For kindling or maintaining an open fire 2. For additional permit requirements for open fires, see 10.11.4†	10.11.1; <u>10.10.1</u>
Organic coatings	For operation and maintenance of a facility that manufactures organic coatings	43.1.1.7
Organic peroxide formulations	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.13.8(c) and (d)	75.1.3
Outside storage of tires	To store more than 500 tires outside	33.1.2
Oxidizers	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 4.42.8 1.13.8(c) and (d)	70.1.4
Parade floats	To use a parade float for public performance, presentation, spectacle, entertainment, or parade	10.17.1
Photovoltaic systems	Installation and placement	11.12.1.2
Places of assembly	To operate a place of assembly	10.14.1; 20.1.1.1
Pyrotechnic articles	For the manufacture, storage, sale, or use of pyrotechnic articles within the jurisdiction	65.2.3; 65.3.3; 65.5.2

Operations and Materials	Permit Required	Cross Reference Section Number
Pyrotechnics before a proximate audience	For the display and use of pyrotechnic materials before a proximate audience	65.3.3
Pyroxylin plastics	For storage, handling, assembly, or manufacture of pyroxylin plastics	43.1.1.7
Private fire hydrants	For installation, modification, or removal from service of any private fire hydrants	13.1.1.1
Refrigeration equipment	To install or operate a mechanical refrigeration unit or system regulated by this <i>Code</i>	53.1.2
Repair garages and service stations	For operation of service stations and repair garages	30.1.1.3; 30.2.1.1
Rocketry manufacturing	For the manufacture of model rocket motors	65.7.2
Rooftop heliports	For construction, modification, or operation of a rooftop heliport	21.3.2.1
Solvent extraction	For storage, use, and handling	44.3
Spraying or dipping of flammable finish	For installation or modification of any spray room, spray booth, or preparation work station, or to conduct a spraying or dipping operation utilizing flammable or combustible liquids or powder coating	43.1.1.7
Standpipe systems	For installation, modification, or removal from service of any standpipe system*	13.1.1.1; 1.7.12.6
Special outdoor events	For the location and operation of special outdoor events	10.14.1
Tar kettles	To place a tar kettle, a permit must be obtained prior to the placement of a tar kettle	16.8.1.2; 17.3.2
Tire storage	To use an open area or portion thereof to store tires in excess of 500 tires	33.1.2; 34.1.2
Torch-applied roofing operation	For the use of a torch for application of roofing materials	16.7.1
Water supply system for fire flow	For the construction of a water supply system for fire flow	18.1.2
Wildland-fire-prone areas	For use of hazardous areas within fire-prone areas	17.3.2
Wood products	To store wood chips, hogged material, wood by-products, lumber, or plywood in excess of 200 ft ³ (5.7 m ³)	31.2

*Maintenance performed in accordance with this *Code* is not considered a modification and does not require a permit.

†Cooking and recreational fires are exempt and do not require a permit.



Second Revision No. 56-NFPA 1-2022 [Detail]

Table 1.13.8(a) - Add a new line for "Open Flame Devices" - The use of tar pots, decorative torches, and other devices, machines, or processes liable to start or cause an unwanted fire. - 10.10.9.1. See attached word doc.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
SR_56_T1.13.8_a_OpenFlameDevices_for_ballot.docx	For ballot	

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Thu Mar 24 14:47:46 EDT 2022

Committee Statement

Committee Statement: Permits were already required for the use of open flame devices, this adds the requirements to Table 1.13.8(a).

Response Message: SR-56-NFPA 1-2022

Table 1.13.8(a) Permit Requirements

Operations and Materials	Permit Required	Cross Reference Section Number
Additive manufacturing	To conduct industrial additive manufacturing operations	46.1.2
Aerosol products	To store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 lb (226.8 kg)	61.1.2
Aircraft fuel servicing	To provide aircraft fuel servicing	42.10.1.2
Aircraft hangars	For servicing or repairing aircraft	21.1.1
Aircraft refueling vehicles	To operate aircraft refueling vehicles	42.10.1.2
Airport terminal buildings	For construction and alteration	21.2.2.1
Ammonium nitrate	For storage	Chapter 74
Amusement parks	For construction, alteration, or operation of amusement park fire protection safety features	10.15.1
Asbestos removal	For the removal of asbestos	16.8.2
Automatic fire suppression systems	For installation, modification, or removal from service of any automatic fire suppression system*	13.1.1.1; 50.4.2
Automobile wrecking yards	To operate automobile wrecking yards	22.2
Automotive fuel servicing	To provide automotive fuel servicing	42.2.2.1; 42.11.2.2.4; 42.11.3.1
Battery systems	To install or operate stationary lead-acid battery systems having an electrolyte capacity of more than 100 gal (378.5 L) in sprinklered buildings or 50 gal (189.3 L) in nonsprinklered buildings	52.2
Candles, open flames, and portable cooking	To use in connection with assembly areas, dining areas of restaurants, or drinking establishments	17.3.2; 20.1.1.1
Carnivals and fairs	To conduct a carnival or fair	10.15.1
Cellulose nitrate film	To store, handle, use, or display	20.15.7.2
Cellulose nitrate plastic	To store or handle more than 25 lb (11.3 kg)	43.1.1.4
Change of occupancy	For the change of occupancy classification of an existing building	1.7.11.5
Cleanrooms	For construction, alteration, or operation	23.3
Combustible fibers	For storage or handling of combustible fibers greater than 100 ft ³ (2.8 m ³)	45.1.3

Operations and Materials	Permit Required	Cross Reference Section Number
Combustible material storage	To store more than 2500 ft ³ (70.8 m ³) gross volume	10.19.2; 19.1.1; 31.2
Commercial rubbish-handling operation	To operate	19.1.1
Compressed gases	1. To store, use, or handle compressed gases in excess of the amounts listed in Table 1.13.8(b) 2. When the compressed gases in use or storage exceed the amounts listed in Table 1.13.8(b), a permit is required to install, repair damage to, abandon, remove, place temporarily out of service, close, or substantially modify a compressed gas system 3. For additional permit requirements for compressed gases facility closures, see 63.1.2 4. Insulated liquid carbon dioxide (CO₂) systems in accordance with 63.9.2	63.1.2; 63.9.2
Construction	For the construction of a building or structure	1.7.11.8
Covered mall buildings	Annual requirement for facilities that utilize mall area for exhibits or displays with four conditions	20.1.5.5.1
Crop maze	To operate a crop maze	10.14.11.1
Cryogenics	To produce, store, or handle cryogenics in excess of amounts listed in Table 1.13.8(c) <i>Exception: Where federal or state regulations apply or for fuel systems of a vehicle.</i>	63.1.2
Cutting and welding operation	For operations within a jurisdiction	41.1.5; 41.3.2.2; 41.3.2.2.2
Display fireworks (1.3G)	For possession, transportation, storage, manufacture, sale, handling, and discharge of display fireworks within the jurisdiction	65.2.3; 65.5.2
Drycleaning plants	To engage in business of drycleaning or to change to a more hazardous cleaning solvent	24.2
Dust-producing operations	To operate a grain elevator, flour mill, starch mill, feed mill, or plant pulverizing aluminum, coal, cocoa, magnesium, spices, sugar, or other similar combustible material	40.2

Operations and Materials	Permit Required	Cross Reference Section Number
Energy storage systems, including battery stationary storage systems and capacitor energy storage systems	To install and operate energy storage systems exceeding Table 52.2.1 and Table 52.3.1	52.1.2
Exhibit and trade shows	For operation of all exhibits and trade shows held within a jurisdiction	20.1.5.5.1
Explosives	1. Manufacture, sell, dispose, purchase, storage, use, possess, or transport of explosives within the jurisdiction 2. For additional permit requirements for blasting operations, see 65.9.2	65.9.2
Fire alarm and detection systems and related equipment	For installation, modification, or removal from service of any fire alarm and detection systems and related equipment*	13.1.1.1
Fire apparatus access roads	For the construction of a fire apparatus access road	18.1.2
Fire hydrants and water-control valves	To use a fire hydrant or operate a water-control valve intended for fire suppression purposes	13.1.1.1
Fire pumps and related equipment	For installation of, modification to, or removal from service of any fire pumps, jockey pumps, controllers, and generators*	13.1.1.1
Flame effects	Use of flame effects before an audience	65.4.2
Flammable and combustible liquids	1. To use or operate, repair, or modify a pipeline for the on-site transportation of flammable or combustible liquids 2. To store, handle, or use Class I liquids in excess of 5 gal (18.9 L) in a building or in excess of 10 gal (37.9 L) outside of a building <i>Exception to item (2): A permit is not required for the following:</i> <i>(a) The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant, or mobile heating plant unless such storage in the opinion of the chief would cause an unsafe condition</i>	66.1.5

Operations and Materials	Permit Required	Cross Reference Section Number
	<i>(b) The storage or use of paints, oils, varnishes, or similar flammable mixtures when such liquids are stored for maintenance, painting, or similar purposes for a period of not more than 30 days</i> 3. To store, handle, or use Class II or Class III-A liquids in excess of 25 gal (94.6 L) in a building or in excess of 60 gal (227.1 L) outside a building <i>Exception to item (3): Fuel oil used in connection with oil-burning equipment</i> 4. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes 5. To install, construct, alter, or operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel-dispensing stations, refineries, distilleries, and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed, or used 6. To install, alter, clean, repair, line with a protective coating, remove, abandon, place temporarily out of service, or otherwise dispose of a flammable or combustible liquid tank 7. To change the type of contents stored in a flammable or combustible liquid tank to a material other than those for which the tank was designed and constructed	
Fruit ripening	To operate a fruit-ripening process	63.1.2
General storage	To store materials indoors or outdoors, representing a broad range of combustibles, including plastics, rubber tires, and roll paper	34.1.2
Grandstands, bleachers, and folding and telescopic seating	For construction, location, erection, or placement of grandstands, bleachers, and folding and telescopic seating	25.1.2
Hazardous materials	1. To store, transport on site, dispense, use, or handle hazardous materials in excess of the amounts listed in Table 1.13.8(d)	Chapter 60

Operations and Materials	Permit Required	Cross Reference Section Number
	2. To install, repair, abandon, remove, place temporarily out of service, close, or substantially modify a storage facility or other area regulated by Chapter 60 when the hazardous materials in use or storage exceed the amounts listed in Table 1.13.8(d)	
High-piled combustible storage	To use any building or portion thereof as a high-piled storage area exceeding 500 ft ² (46.45 m ²)	20.15.8.2
High-powered rocketry	For the manufacture, sale, and use of high-powered rocketry	65.8.2; 65.7.2
Hot work operations	To conduct hot work	17.3.2; 41.1.5; 41.3.4
In-building emergency responder communications enhancement systems	To install and operate an in-building emergency responder communication enhancement system	11.10.1
Industrial ovens and furnaces	For operation of industrial ovens and furnaces covered by Chapter 51	51.1.2
Laboratories	For construction, alteration, or operation	26.3
Liquefied petroleum gases	1. To store, use, handle, or dispense LP-Gas of 125 gal (0.5 m ³) (water capacity) aggregate capacity or greater 2. To install or modify LP-Gas systems	42.11.2.2.4 69.1.2
Liquid- or gas-fueled vehicles	To display, compete, or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings	20.1.5.5.1
Lumberyards and woodworking plants	For storage of lumber exceeding 100,000 board ft	31.2
Cannabis growing, processing, or extraction facilities	For the construction, alteration, or operation of a cannabis growing, processing, or extraction facility	38.2
Marine craft fuel servicing	To provide marine craft fuel servicing	42.9.1.4
Means of egress	For the modification of a means of egress system in an existing building	1.7.11.6
Membrane structures, tents, and canopies — permanent	For construction, location, erection, or placement	25.1.2

Operations and Materials	Permit Required	Cross Reference Section Number
Membrane structures, tents, and canopies — temporary	To erect or operate an air-supported temporary membrane structure or tent having an area in excess of 200 ft ² (18.6 m ²) or a canopy in excess of 400 ft ² (37.2 m ²) <i>Exception: Temporary membrane structures, tents, or canopy structures used exclusively for camping.</i>	25.1.2
Mobile cooking operations	To conduct mobile cooking operations	50.7
Motion picture and television production studio soundstages and approved production facilities	To design, construct, operate, and maintain soundstages and approved production facilities used in motion picture and television industry productions	32.2
Oil- and gas-fueled heating appliances	To install oil- and gas-fired heating appliances	11.5.1.8
On-demand mobile fueling	To conduct on-demand mobile fueling operations	42.12
Open burning	1. To conduct open burning 2. For additional permit requirements for open burning, see 10.11.1	10.11.1
Open fires	1. For kindling or maintaining an open fire 2. For additional permit requirements for open fires, see 10.11.4†	10.11.1
<u>Open Flame Devices</u>	<u>The use of tar pots, decorative torches, and other devices, machines, or processes liable to start or cause an unwanted fire.</u>	<u>10.10.9.1</u>
Organic coatings	For operation and maintenance of a facility that manufactures organic coatings	43.1.1.7
Organic peroxide formulations	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.13.8(c) and (d)	75.1.3
Outside storage of tires	To store more than 500 tires outside	33.1.2
Oxidizers	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.12.8 1.13.8(c) and (d)	70.1.4
Parade floats	To use a parade float for public performance, presentation, spectacle, entertainment, or parade	10.17.1
Photovoltaic systems	Installation and placement	11.12.1.2
Places of assembly	To operate a place of assembly	10.14.1; 20.1.1.1

Operations and Materials	Permit Required	Cross Reference Section Number
Pyrotechnic articles	For the manufacture, storage, sale, or use of pyrotechnic articles within the jurisdiction	65.2.3; 65.3.3; 65.5.2
Pyrotechnics before a proximate audience	For the display and use of pyrotechnic materials before a proximate audience	65.3.3
Pyroxylin plastics	For storage, handling, assembly, or manufacture of pyroxylin plastics	43.1.1.7
Private fire hydrants	For installation, modification, or removal from service of any private fire hydrants	13.1.1.1
Refrigeration equipment	To install or operate a mechanical refrigeration unit or system regulated by this <i>Code</i>	53.1.2
Repair garages and service stations	For operation of service stations and repair garages	30.1.1.3; 30.2.1.1
Rocketry manufacturing	For the manufacture of model rocket motors	65.7.2
Rooftop heliports	For construction, modification, or operation of a rooftop heliport	21.3.2.1
Solvent extraction	For storage, use, and handling	44.3
Spraying or dipping of flammable finish	For installation or modification of any spray room, spray booth, or preparation work station, or to conduct a spraying or dipping operation utilizing flammable or combustible liquids or powder coating	43.1.1.7
Standpipe systems	For installation, modification, or removal from service of any standpipe system*	13.1.1.1; 1.7.12.6
Special outdoor events	For the location and operation of special outdoor events	10.14.1
Tar kettles	To place a tar kettle, a permit must be obtained prior to the placement of a tar kettle	16.8.1.2; 17.3.2
Tire storage	To use an open area or portion thereof to store tires in excess of 500 tires	33.1.2; 34.1.2
Torch-applied roofing operation	For the use of a torch for application of roofing materials	16.7.1
Water supply system for fire flow	For the construction of a water supply system for fire flow	18.1.2
Wildland-fire-prone areas	For use of hazardous areas within fire-prone areas	17.3.2
Wood products	To store wood chips, hogged material, wood by-products, lumber, or plywood in excess of 200 ft ³ (5.7 m ³)	31.2

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*Maintenance performed in accordance with this *Code* is not considered a modification and does not require a permit.

†Cooking and recreational fires are exempt and do not require a permit.



Second Revision No. 32-NFPA 1-2022 [Section No. 1.7.7.6]

1.7.7.6*

Building, fire and life safety, fire protection systems and equipment, and other AHJ code-related inspections shall be permitted to be modified or delayed as permitted by the AHJ due to national, regional, or locally declared disasters.

A.1.7.7.6

AHJs should have the authority to respond to declared disaster environments by modifying inspection requirements, including schedule and scope, due to a disaster impacting the jurisdiction enforcing this code. The types of inspections that can be modified or delayed by the AHJ include those performed by or on behalf of the AHJ, and inspection, testing, and maintenance (ITM) activities by owners, tenants, or contractors. During a declared disaster, the AHJ should clearly convey the scope and expectations of the modification or delay to affected parties.

It is important to note that 1.7.7.6 is intended to apply to only jurisdictions included in the formal disaster declaration issued by the emergency management authority of the respective jurisdiction, whether at the local, state, or federal level. Once the disaster declaration expires, the authority granted to the AHJ under 1.7.7.6 of this Code expires, and normal inspection schedules should resume without further action required by the AHJ.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 11:32:27 EDT 2022

Committee Statement

Committee Statement: Additional clarity was needed as this section applies to the periodic inspection, testing, and maintenance of fire protection and life safety systems. In addition this new language specifies formal disaster declaration and expiration of these special modifications.

Response Message: SR-32-NFPA 1-2022



Second Revision No. 19-NFPA 1-2022 [Section No. 2.2]

2.2 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 2, *Hydrogen Technologies Code*, 2020 2023 edition.

NFPA 4, *Standard for Integrated Fire Protection and Life Safety System Testing*, 2024 2024 edition.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2018 2022 edition.

NFPA 11, *Standard for Low-, Medium-, and High-Expansion Foam*, 2016 2021 edition.

NFPA 12, *Standard on Carbon Dioxide Extinguishing Systems*, 2018 2022 edition.

NFPA 12A, *Standard on Halon 1301 Fire Extinguishing Systems*, 2018 2022 edition.

NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2019 2022 edition.

NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*, 2019 2022 edition.

NFPA 13R, *Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies*, 2019 2022 edition.

NFPA 14, *Standard for the Installation of Standpipe and Hose Systems*, 2019 2023 edition.

NFPA 15, *Standard for Water Spray Fixed Systems for Fire Protection*, 2017 2022 edition.

~~NFPA 16, *Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*, 2019 edition.~~

NFPA 17, *Standard for Dry Chemical Extinguishing Systems*, 2024 2024 edition.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems*, 2024 2024 edition.

NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection*, 2019 2022 edition.

NFPA 22, *Standard for Water Tanks for Private Fire Protection*, 2018 2023 edition.

NFPA 24, *Standard for the Installation of Private Fire Service Mains and Their Appurtenances*, 2019 2022 edition.

NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, 2020 2023 edition.

NFPA 30, *Flammable and Combustible Liquids Code*, 2024 2024 edition.

NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, 2024 2024 edition.

NFPA 30B, *Code for the Manufacture and Storage of Aerosol Products*, 2019 2023 edition.

NFPA 31, *Standard for the Installation of Oil-Burning Equipment*, 2020 edition.

NFPA 32, *Standard for Drycleaning Facilities*, 2016 2021 edition.

NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, 2018 2021 edition.

NFPA 34, *Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids*, 2018 2021 edition.

NFPA 35, *Standard for the Manufacture of Organic Coatings*, 2016 2021 edition.

NFPA 36, *Standard for Solvent Extraction Plants*, 2017 2021 edition.

NFPA 37, *Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines*, 2024 2024 edition.

NFPA 40, *Standard for the Storage and Handling of Cellulose Nitrate Film*, 2019 2022 edition.

NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals*, 2019 2023 edition.

NFPA 51, *Standard for the Design and Installation of Oxygen–Fuel Gas Systems for Welding, Cutting, and Allied Processes*, 2018 2023 edition.

NFPA 51B, *Standard for Fire Prevention During Welding, Cutting, and Other Hot Work*,

2019 2024 edition.

NFPA 52, *Vehicular Natural Gas Fuel Systems Code*, 2019 2023 edition.

NFPA 54, *National Fuel Gas Code*, 2021 2024 edition.

NFPA 55, *Compressed Gases and Cryogenic Fluids Code*, 2020 2023 edition.

NFPA 56, *Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems*, 2020 2023 edition.

NFPA 58, *Liquefied Petroleum Gas Code*, 2020 2023 edition.

NFPA 59, *Utility LP-Gas Plant Code*, 2021 2024 edition.

NFPA 59A, *Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG)*, 2019 2023 edition.

NFPA 61, *Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities*, 2020 edition.

NFPA 68, *Standard on Explosion Protection by Deflagration Venting*, 2018 2023 edition.

NFPA 69, *Standard on Explosion Prevention Systems*, 2019 edition.

NFPA 70[®], *National Electrical Code*[®], 2020 2023 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 2022 edition.

NFPA 75, *Standard for the Fire Protection of Information Technology Equipment*, 2020 edition.

NFPA 76, *Standard for the Fire Protection of Telecommunications Facilities*, 2020 edition.

NFPA 80, *Standard for Fire Doors and Other Opening Protectives*, 2019 2022 edition.

NFPA 82, *Standard on Incinerators and Waste and Linen Handling Systems and Equipment*, 2019 edition.

NFPA 85, *Boiler and Combustion Systems Hazards Code*, 2019 2023 edition.

NFPA 86, *Standard for Ovens and Furnaces*, 2019 2023 edition.

NFPA 88A, *Standard for Parking Structures*, 2019 2023 edition.

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*, 2021 2024 edition.

NFPA 90B, *Standard for the Installation of Warm Air Heating and Air-Conditioning Systems*, 2021 2024 edition.

NFPA 91, *Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids*, 2020 edition.

NFPA 92, *Standard for Smoke Control Systems*, 2018 2021 edition.

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2021 2024 edition.

NFPA 99, *Health Care Facilities Code*, 2021 2024 edition.

NFPA 99B, *Standard for Hypobaric Facilities*, 2021 2024 edition.

NFPA 101[®], *Life Safety Code*[®], 2021 2024 edition.

NFPA 102, *Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures*, 2016 2021 edition.

NFPA 105, *Standard for Smoke Door Assemblies and Other Opening Protectives*, 2019 2022 edition.

NFPA 110, *Standard for Emergency and Standby Power Systems*, 2019 2022 edition.

NFPA 111, *Standard on Stored Electrical Energy Emergency and Standby Power Systems*, 2019 2022 edition.

NFPA 115, *Standard for Laser Fire Protection*, 2020 edition.

NFPA 120, *Standard for Fire Prevention and Control in Coal Mines*, 2020 2023 edition.

NFPA 122, *Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities*, 2020 2023 edition.

NFPA 130, *Standard for Fixed Guideway Transit and Passenger Rail Systems*, 2020 2023 edition.

NFPA 140, *Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations*, 2018 2023 edition.

NFPA 150, *Fire and Life Safety in Animal Housing Facilities Code*, 2019 2022 edition.

NFPA 160, *Standard for the Use of Flame Effects Before an Audience*, 2021 edition.

NFPA 170, *Standard for Fire Safety and Emergency Symbols*, 2018 2021 edition.

NFPA 204, *Standard for Smoke and Heat Venting*, 2018 2021 edition.

NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*, 2019 2024 edition.

NFPA 220, *Standard on Types of Building Construction*, 2021 2024 edition.

NFPA 221, *Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls*, 2021 2024 edition.

NFPA 232, *Standard for the Protection of Records*, 2017 2022 edition.

NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*, 2019 2022 edition.

~~NFPA 251, *Standard Methods of Tests of Fire Resistance of Building Construction and Materials*, 2006 edition.~~

NFPA 252, *Standard Methods of Fire Tests of Door Assemblies*, 2017 2022 edition.

NFPA 253, *Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source*, 2019 2023 edition.

NFPA 257, *Standard on Fire Test for Window and Glass Block Assemblies*, 2017 2022 edition.

NFPA 259, *Standard Test Method for Potential Heat of Building Materials*, 2018 2023 edition.

NFPA 260, *Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture*, 2019 2023 edition.

NFPA 261, *Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes*, 2018 2023 edition.

NFPA 265, *Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls*, 2019 2023 edition.

NFPA 286, *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*, 2019 2023 edition.

NFPA 288, *Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies*, 2017 2022 edition.

NFPA 289, *Standard Method of Fire Test for Individual Fuel Packages*, 2019 2023 edition.

NFPA 301, *Code for Safety to Life from Fire on Merchant Vessels*, 2018 2023 edition.

NFPA 302, *Fire Protection Standard for Pleasure and Commercial Motor Craft*, 2020 edition.

NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, 2021 edition.

NFPA 307, *Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves*, 2021 edition.

NFPA 312, *Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up*, 2021 edition.

NFPA 318, *Standard for the Protection of Semiconductor Fabrication Facilities*, 2021 2022 edition.

NFPA 326, *Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair*, 2020 edition.

NFPA 385, *Standard for Tank Vehicles for Flammable and Combustible Liquids*, 2017 2022 edition.

NFPA 400, *Hazardous Materials Code*, 2019 2022 edition.

~~NFPA 403, *Standard for Aircraft Rescue and Fire-Fighting Services at Airports*, 2018 edition.~~

NFPA 407, *Standard for Aircraft Fuel Servicing*, 2017 2022 edition.

NFPA 408, *Standard for Aircraft Hand Portable Fire Extinguishers*, 2017 2022 edition.

NFPA 409, *Standard on Aircraft Hangars*, 2016 2022 edition.

NFPA 410, *Standard on Aircraft Maintenance*, 2020 edition.

NFPA 415, *Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways*, 2021 2022 edition.

NFPA 418, *Standard for Heliports*, 2016 2021 edition.

NFPA 423, *Standard for Construction and Protection of Aircraft Engine Test Facilities*, 2021 2022 edition.

NFPA 460, *Standard for Aircraft Rescue and Firefighting Services at Airports, Recurring Proficiency of Airport Fire Fighters, and Evaluating Aircraft Rescue and Firefighting Foam Equipment*, 2024 edition.

NFPA 484, *Standard for Combustible Metals*, 2019 2022 edition.

NFPA 495, *Explosive Materials Code*, 2018 2023 edition.

NFPA 498, *Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives*, 2018 2023 edition.

NFPA 501, *Standard on Manufactured Housing*, 2017 2022 edition.

NFPA 501A, *Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities*, 2017 2021 edition.

NFPA 502, *Standard for Road Tunnels, Bridges, and Other Limited Access Highways*, 2020 2023 edition.

NFPA 505, *Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations*, 2018 2023 edition.

NFPA 601, *Standard for Security Services in Fire Loss Prevention*, 2020 edition.

NFPA 652, *Standard on the Fundamentals of Combustible Dust*, 2019 edition.

NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, 2020 edition.

NFPA 655, *Standard for Prevention of Sulfur Fires and Explosions*, 2017 edition.

NFPA 664, *Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities*, 2020 edition.

NFPA 701, *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films*, 2019 2023 edition.

NFPA 703, *Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials*, 2021 2024 edition.

NFPA 704, *Standard System for the Identification of the Hazards of Materials for Emergency Response*, 2017 2022 edition.

NFPA 731, *Standard for the Installation of Premises Security Systems*, 2020 2023 edition.

NFPA 750, *Standard on Water Mist Fire Protection Systems*, 2019 edition.

NFPA 770, *Standard on Hybrid (Water and Inert Gas) Fire-Extinguishing Systems*, 2021 edition.

NFPA 780, *Standard for the Installation of Lightning Protection Systems*, 2020 2023 edition.

NFPA 801, *Standard for Fire Protection for Facilities Handling Radioactive Materials*, 2019 2020 edition.

NFPA 804, *Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants*, 2020 edition.

NFPA 805, *Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants*, 2020 edition.

NFPA 820, *Standard for Fire Protection in Wastewater Treatment and Collection Facilities*, 2020 2024 edition.

NFPA 855, *Standard for the Installation of Stationary Energy Storage Systems*, 2023 edition.

NFPA 909, *Code for the Protection of Cultural Resource Properties — Museums, Libraries, and Places of Worship*, 2017 2021 edition.

NFPA 914, *Code for the Protection of Historic Structures*, 2019 2023 edition.

NFPA 1030, *Standard for Professional Qualifications for Fire Prevention Program Positions*, 2024 edition.

~~NFPA 1031, *Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, 2014 edition.~~

~~NFPA 1037, *Standard on Fire Marshal Professional Qualifications*, 2016 edition.~~

NFPA 1122, *Code for Model Rocketry*, 2018 edition.

NFPA 1123, *Code for Fireworks Display*, 2018 2022 edition.

NFPA 1124, *Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles*, 2021 2022 edition.

NFPA 1125, *Code for the Manufacture of Model Rocket and High-Power Rocket Motors*, 2017 2022 edition.

NFPA 1126, *Standard for the Use of Pyrotechnics Before a Proximate Audience*, 2021 edition.

NFPA 1127, *Code for High Power Rocketry*, 2018 edition.

NFPA 1140, *Standard for Wildland Fire Protection*, 2022 edition.

~~NFPA 1141, *Standard for Fire Protection Infrastructure for Land Development in Wildland, Rural, and Suburban Areas*, 2017 edition.~~

NFPA 1142, *Standard on Water Supplies for Suburban and Rural Fire Fighting*, 2022 edition.

~~NFPA 1144, *Standard for Reducing Structure Ignition Hazards from Wildland Fire*, 2018 edition.~~

NFPA 1192, *Standard on Recreational Vehicles*, 2021 edition.

NFPA 1194, *Standard for Recreational Vehicle Parks and Campgrounds*, 2021 edition.

~~NFPA 1221, *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, 2019 edition.~~

NFPA 1225, *Standard for Emergency Services Communications*, 2022 edition.

~~NFPA 1620, *Standard for Pre-Incident Planning*, 2020 edition.~~

NFPA 1660, *Standard on Community Risk Assessment, Pre-Incident Planning, Mass Evacuation, Sheltering, and Re-entry Programs*, 2024 edition.

NFPA 1730, *Standard on Organization and Deployment of Fire Prevention Inspection and Code Enforcement, Plan Review, Investigation, and Public Education Operations*, 2019

edition.

NFPA 1900, Standard for Aircraft Rescue and Firefighting Vehicles, Automotive Fire Apparatus, Wildland Fire Apparatus, and Automotive Ambulances, 2024 edition.

NFPA 1901, ~~Standard for Automotive Fire Apparatus~~, 2021 ~~edition~~.

NFPA 1906, ~~Standard for Wildland Fire Apparatus~~, 2021 ~~edition~~.

NFPA 1910, Standard for Marine Firefighting Vessels and the Inspection, Maintenance, Testing, Refurbishing, and Retirement of In-Service Emergency Vehicles, 2024 edition.

NFPA 1925, ~~Standard on Marine Fire-Fighting Vessels~~, 2018 ~~edition~~.

NFPA 1963, Standard for Fire Hose Connections, 2019 edition.

NFPA 2001, Standard on Clean Agent Fire Extinguishing Systems, 2018 2022 edition.

NFPA 2010, Standard for Fixed Aerosol Fire Extinguishing Systems, 2020 edition.

NFPA 2113, Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire, 2020 edition.

NFPA 5000[®], Building Construction and Safety Code[®], 2024 2024 edition.

Supplemental Information

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Committee: FCC-FUN

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Second Revision No. 20-NFPA 1-2022 [Section No. 2.3]

2.3 Other Publications.

2.3.1 ANSI Publications.

American National Standards Institute, Inc., 25 West 43rd Street, 4th floor, New York, NY 10036.

ANSI B11.19, *Performance Requirements for Risk Reduction Measures: Safeguarding and other Means of Reducing Risk*, 2010 2019 .

ANSI/BHMA A156.3, *Exit Devices*, 2014 2020 .

ANSI/AWWA G200, *Distribution Systems Operation and Management*, 2015 2021 .

2.3.2 APA Publications.

7910 Woodmont Avenue, Suite 1220, Bethesda, MD 20814.

APA 87-1, *Standard for the Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics*, 2001.

2.3.3 API Publications.

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005-4070.

API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases, Pre-July 1, 1961.

API Specification 12B, *Bolted Tanks for Storage of Production Liquids*, 15th edition, 2014.

API Specification 12D, *Field-welded Tanks for Storage of Production Liquids*, 12th edition, 2017.

API Specification 12F, *Shop-welded Tanks for Storage of Production Liquids*, 13th edition, 2019.

API 607, *Fire Test for Quarter-Turn Valves and Valves Equipped with Nonmetallic Seats*, 7th edition, 2016.

API Standard 620, *Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, 12th edition, Addendum 2 (2018), 2013.

API Standard 650, *Welded Tanks for Oil Storage*, 12th edition, Addendum 3(2018), 2013.

API Standard 653, *Tank Inspection, Repair, Alteration, and Reconstruction*, 5th edition, Addendum 1 (2018 2014), Addendum 2 (2018), Addendum 3 (2021), 2014.

2.3.4 ASCE Publications.

American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400.

ASCE/SEI 7, *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*, 2016.

2.3.5 ASHRAE Publications.

ASHRAE, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305.

ANSI/ASHRAE 15, *Safety Standard for Refrigeration Systems*, 2019.

ANSI/ASHRAE 34, *Designation and Safety Classification of Refrigerants*, 2019.

2.3.6 ASME Publications.

American Society of Mechanical Engineers, Two Park Avenue, New York, NY 10016-5990.

ASME A13.1, *Scheme for the Identification of Piping Systems*, 2015 2020 .

ASME A17.1, *Safety Code for Elevators and Escalators*, 2016 2019 .

ASME A17.3, *Safety Code for Existing Elevators and Escalators*, 2017 2020 .

~~ASME B31, *Code for Pressure Piping* , 2012.~~

ANSI/ASME B31.1, *Power Piping*, 2018 2020 .

ANSI/ASME B31.3, *Process Piping*, 2016 2020 .

ANSI/ASME B31.4, *Pipeline Transportation Systems for Liquids and Slurries*, 2016 2019 .

~~ANSI/ASME B56.1, *Safety Standard for Low Lift and High Lift Trucks* , 2016.~~

ASME *Boiler and Pressure Vessel Code*, 2019 2021 .

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~~ASME *Code for Unfired Pressure Vessels* , 2015.~~

2.3.7 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM A395, *Standard Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures*, 1999 reapproved 2018.

ASTM D56, *Standard Test Method for Flash Point by Tag Closed Cup Tester*, 2016a 2021a .

ASTM D92, *Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester*, 2018.

ASTM D86, *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure*, 2018 2020b .

ASTM D93, *Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester*, 2018 2020 .

ASTM D323, *Standard Method of Test for Vapor Pressure of Petroleum Products (Reid Method)*, 2015a 2020a .

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ASTM D635, *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*, 2018.

ASTM D1929, *Standard Test Method for Determining Ignition Temperature of Plastics*, 2016 2020 .

ASTM D2843, *Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics*, 2016 2019 .

ASTM D2859, *Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials*, 2016, reapproved 2021 .

ASTM D2898, *Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing*, 2010, (reaffirmed reapproved 2017) .

ASTM D3278, *Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus*, 1996 (reaffirmed 2011) 2021 .

ASTM D3699, *Standard Specification for Kerosene*, 2018a 2019 .

ASTM D3828, *Standard Test Methods for Flash Point by Small Scale Closed Cup Tester*, 2016a, reapproved 2021 .

ASTM D5391, *Standard Test Method for Electrical Conductivity and Resistivity of a Flowing High Purity Water Sample*, 2014.

ASTM D5456, *Standard Specification for Evaluation of Structural Composite Lumber Products*, 2019 2021e1 .

ASTM D6448, *Standard Specification for Industrial Burner Fuels from Used Lube Lubricating Oils*, 2016.

ASTM D6751, *Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuel*, 2019 2020a .

ASTM D6823, *Standard Specification for Commercial Burner Fuels with Used Lube Lubricating Oils*, 2008, (2013 reapproved 2021) .

ASTM D7666, *Standard Specification for Triglyceride Burner Fuel*, 2012 2019 .

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ASTM E108, *Standard Test Methods for Fire Tests of Roof Coverings*, 2017 2020a .

ASTM E119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, 2018ce1 2020 .

ASTM E136, *Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C*, 2019 2019a .

ASTM E648, *Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source*, 2019 2019ae1 .

ASTM E681, *Standard Test Method for Concentration Limits of Flammability of Chemicals (Vapors and Gases)*, 2009, (reapproved 2015) .

ASTM E814, *Standard Test Method for Fire Tests of Penetration Firestop Systems*, 2013a (reapproved 2017) .

ASTM E1354, *Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter*, 2017.

ASTM E1537, *Standard Test Method for Fire Testing of Upholstered Furniture*, 2016.

ASTM E1590, *Standard Test Method for Fire Testing of Mattresses*, 2017 2022 .

ASTM E1591, *Standard Guide for Obtaining Data for Fire Growth Models*, 2013 2020 .

ASTM E1966, *Standard Test Method for Fire-Resistive Joint Systems*, 2015, (reapproved 2019) .

ASTM E2019, *Standard Test Method for Minimum Ignition Energy of a Dust Cloud in Air*, 2003 (, reapproved 2019) .

ASTM E2174, *Standard Practice for On-Site Inspection of Installed Firestops*, 2019 2020a .

ASTM E2307, *Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus*, 2019 2020 .

ASTM E2336, *Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems*, 2016 2020 .

ASTM E2393, *Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers*, 2010a, ~~reapproved 2015~~ 2020a .

ASTM E2404, *Standard Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) and Wood Wall or Ceiling Coverings, Facings and Veneers , to Assess Surface Burning Characteristics*, 2017.

ASTM E2573, *Standard Practice for Specimen Preparation and Mounting of Site-Fabricated Stretch Systems to Assess Surface Burning Characteristics*, 2017 2019 .

ASTM E2599, *Standard Practice for Specimen Preparation and Mounting of Reflective Insulation, Radiant Barrier and Vinyl Stretch Ceiling Materials for Building Applications to Assess Surface Burning Characteristics*, 2018.

ASTM E2652, *Standard Test Method for Assessing Combustibility of Materials Using a Tube Furnace with a Cone-Shaped Airflow Stabilizer, at 750 Degrees C*, 2018.

ASTM E2768, *Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)*, 2011 (, reapproved 2018) .

ASTM E2965, *Standard Test for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Combustion Calorimeter*, 2017.

ASTM E3082, *Standard Test Methods for Determining the Effectiveness of Fire Retardant Treatments for Natural Christmas Trees*, 2017 ~~e1~~ 2020 .

ASTM F852/F852M , *Standard for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use*, 2019 2022 .

~~ASTM F976, *Standard for Portable Kerosene Containers for Consumer Use* , 2008.~~

ASTM F2200, *Standard Specification for Automated Vehicular Gate Construction*, 2017 2020 .

2.3.8 CGA Publications.

Compressed Gas Association, 14501 George Carter Way, Suite 103, Chantilly, VA 20151.

CGA C-7, *Guide to Classification and Labeling of Compressed Gases*, 2014 2020 .

ANSI/CGA G-13, *Storage and Handling of Silane and Silane Mixtures*, 2015 2016 .

~~CGA M-1, *Standard for Medical Gas Supply Systems at Health Care Facilities* , 2013.~~

CGA P-1, *Standard for Safe Handling of Compressed Gases in Containers*, 2015 2022 .

ANSI/CGA P-18, *Standard for Bulk Inert Gas Systems*, 2013 2020 .

CGA P-20, *Standard for the Classification of Toxic Gas Mixtures*, 2017.

CGA P-23, *Standard for Categorizing Gas Mixtures Containing Flammable and Nonflammable Components*, 2015.

CGA S-1.1, *Pressure Relief Device Standards — Part 1 — Cylinders for Compressed Gases*, 2019 2022 .

CGA S-1.2, *Pressure Relief Device Standards — Part 2 — Portable Containers for Compressed Gases*, 2009 2019 .

CGA S-1.3, *Pressure Relief Device Standards — Part 3 — Stationary Storage Containers for Compressed Gases*, 2008 2020 .

~~CGA-V6, *Standard Bulk Refrigerated Liquid Transfer Connections* , 2014.~~

2.3.9 CTA Publications.

Canadian Transportation Agency, Queen's Printer, Ottawa, Ontario, Canada. (Available from the Canadian Communications Group Publication Centre, Ordering Department, Ottawa, Canada K1A 0S9.)

Transportation of Dangerous Goods Regulations.

2.3.10 EI Publications.

Energy Institute, 61 New Cavendish Street, London W1G 7AR, United Kingdom.

EI 1529, *Aviation Fueling Hose and Hose Assemblies*, 2014 (reaffirmed 2019) .

2.3.11 FM Publications.

FM Approvals LLC, 1151 Boston-Providence Turnpike, P.O. Box 9102, Norwood, MA 02062.

~~ANSI/ FM-Approval 4880, *Approval Standard for Class 1 Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems* American National Standard for Evaluating the Fire Performance of Insulated Building Panel Assemblies and Interior Finish Materials~~ , 2010 2017 .

~~Approval Standard 6921, *Containers for Combustible Waste* , 2004.~~

~~Approval Standard for Plastic Plugs for Steel Drums, Class Number 6083~~ , October 2006.

FM 6051/6052, *Approval Standard for Safety Containers and Filling, Supply, and Disposal Containers — Class Number 6051 and 6052 for Ignitable (Flammable) Liquids*, , May 1976 November 2017 .

FM 6083, *Approval Standard for Plastic Plugs for Steel Drums* , October 2006.

FM 6921, *Approval Standard for Oily Containers for Combustible Waste* , 2004.

2.3.12 ICC Publications.

International Code Council, 500 New Jersey Avenue, NW, 6th Floor, Washington, DC 20001-2070.

ICC A117.1, *Accessible and Usable Buildings and Facilities*, 2017.

2.3.13 IEC Publications.

International Electrotechnical Commission, 3, rue de Varembé, P.O. Box 131, CH-1211 Geneva 20, Switzerland.

IEC 61340-4-4, *Electrostatics—Part 4-4: Standard Test Methods for Specific Applications — Electrostatic Classification of Flexible Intermediate Bulk Containers (FIBC)*, 2018.

2.3.14 IIAR Publications.

International Institute of Ammonia Refrigeration, 1001 N. Fairfax Street, Suite 503, Alexandria, VA 22314.

ANSI/IIAR 2, *Standard for Safe Design of Safe Closed-Circuit Ammonia Refrigeration Systems*, Addendum A (2019), 2014 2021 .

ANSI/IIAR 6, *Standard for the Inspection, Testing, and Maintenance of Closed-Circuit Ammonia Refrigeration Systems*, 2019.

ANSI/IIAR 7, *Standard for Developing Operating Procedures for Closed-Circuit Ammonia Mechanical Refrigerating Refrigeration Systems*, 2019.

ANSI/IIAR 8, *Standard for Decommissioning of Closed-Circuit Ammonia Mechanical Refrigerating Refrigeration Systems*, 2015 2020 .

2.3.15 ISO Publications.

International Organization for Standardization, ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland.

ISO 10156, *Gas Cylinders — Gases and Gas Mixtures — Determination of Fire Potential and Oxidizing Ability for the Selection of Cylinder Valve Outlets*, 2017.

ISO 10298, *Gas Cylinders — Gases and Gas Mixtures — Determination of Toxicity for the Selection of Cylinder Valve Outlets*, amendment 1 (2021), 2018.

2.3.16 ITSDF Publications.

Industrial Truck Standards Development Foundation, Suite 460, 1750 K Street NW, Washington, DC 20006 USA.

ANSI/ITSDF B56.1, *Safety Standard for Low Lift and High Lift Trucks* , 2020.

2.3.17 NBBPVI Publications.

National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

NBBI NB23, *National Board Inspection Code*, 2019 2021 .

2.3.18 NRFC Publications.

National Railroad Freight Committee, 222 South Riverside Plaza, Chicago, IL 60606-5945.

Uniform Freight Classification (UFC), 2005.

2.3.19 RVIA Publications.

Recreation Vehicle Industry Association, 1896 Preston White Drive, P.O. Box 2999, Reston, VA 20195-0999.

RVIA/ANSI A119.5, *Park Model Recreational Vehicle Standard*, 2015 2020 .

2.3.20 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

UL 8, *Water Based Agent Fire Extinguishers*, 2016, [revised 2020](#) .

UL 9, *Fire Tests of Window Assemblies*, 2009, [revised 2020](#) .

UL 10B, *Fire Tests of Door Assemblies*, 2008, [revised 2020](#) .

UL 10C, *Positive Pressure Fire Tests of Door Assemblies*, 2016, [revised 2021](#) .

UL 25, *Meters for Flammable and Combustible Liquids and LP-Gas*, 2016, [revised 2021](#) .

UL 30, *Metal Safety Cans*, 1995, [revised 2019](#) .

UL 38, *Manual Signaling Boxes for Fire Alarm Systems*, 2008, [revised 2018](#) .

UL 58, *Steel Underground Tanks for Flammable and Combustible Liquids*, 2018.

UL 79, *Power-Operated Pumps for Petroleum Dispensing Products*, 2016, [revised 2021](#) .

UL 79A, *Power-Operated Pumps for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2015 (2016), [revised 2020](#) .

UL 80, *Steel Tanks for Oil Burner Fuels and Other Combustible Liquids*, 2007, [revised 2019](#) .

UL 87A, *Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2015 (2019), [revised 2020](#) .

UL 142, *Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2019, [revised 2021](#) .

UL 142A, ~~*Safety for Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids*~~, 2018, [revised 2021](#) .

UL 147A, *Nonrefillable (Disposable) Type Fuel Gas Cylinder Assemblies*, 2018, [revised 2019](#) .

UL 147B, *Nonrefillable (Disposable) Type Metal Container Assemblies for Butane*, 2016, [revised 2019](#) .

UL 154, *Carbon Dioxide Fire Extinguishers*, 2005, [revised 2021](#) .

UL 162, ~~*Safety for Foam Equipment and Liquid Concentrates*~~, 2018, [revised 2022](#) .

UL 197, *Commercial Electric Cooking Appliances*, 2010, [revised 2020](#) .

UL 263, *Fire Tests of Building Construction and Materials*, 2011, [revised 2021](#) .

UL 294, *Access Control System Units*, 2018.

UL 296A, *Waste Oil-Burning Air-Heating Appliances*, 2018.

UL 299, *Dry Chemical Fire Extinguishers*, 2012, [revised 2021](#) .

UL 300, *Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment*, 2019.

UL 305, ~~*Safety*~~ *Panic Hardware*, 2012, [revised 2017](#) .

UL 325, *Door, Drapery, Gate, Louver, and Window Operators and Systems*, 2017, [revised 2020](#) .

UL 330A, ~~*Outline of Investigation for*~~ *Hose and Hose Assemblies for Use with Dispensing Devices Dispensing Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2018 2019, [revised 2020](#) .

UL 340, ~~*Test Tests*~~ *for Comparative Flammability of Liquids*, 2017.

UL 499, *Electric Heating Appliances*, 2014, [revised 2021](#) .

UL 555, *Fire Dampers*, 2006, [revised 2020](#) .

UL 555S, *Smoke Dampers*, 2014, [revised 2020](#) .

UL 567, *Emergency Breakaway Fittings, Swivel Connectors and Pipe Connection Fittings for Petroleum Products and LP-Gas*, 2014 [revised 2021](#) .

UL 567A, *Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2015 (2019) revised 2019 .

UL 626, *Water Fire Extinguishers*, 2005, revised 2021 .

UL 647, *Unvented Kerosene-Fired Room Heaters and Portable Heaters*, 1993, revised 2010 .

UL 710B, *Recirculating-Exhaust Systems*, 2011, revised 2021 .

UL 711, *Rating and Fire Testing of Fire Extinguishers*, 2018.

UL 723, *Test for Surface Burning Characteristics of Building Materials*, 2018.

UL 790, *Test Methods for Fire Tests of Roof Coverings*, 2004 2022 .

UL 842, *Valves for Flammable Fluids*, 2007, 10th edition, 2015 2022 .

UL 842A, *Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2015, (revised 2019) .

UL 900, *Air Filter Units*, 2015.

UL 913, *Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III Division 1, Hazardous (Classified) Locations*, 2013, revised 2019 .

UL 924, *Emergency Lighting and Power Equipment*, 2016, revised 2020 .

UL 962A, *Furniture Power Distribution Units*, 2018, revised 2020 2021 .

UL 971, *Nonmetallic Underground Piping for Flammable Liquids*, 1995 2021 .

UL 1026, Household Electric Cooking and Food Serving Appliances , 2021, revised 2021.

UL 1037, *Antitheft Alarms and Devices*, 2016, revised 2017 .

UL 1040, *Fire Test of Insulated Wall Construction*, 1996, revised 2022 .

UL 1278, *Movable and Wall- or Ceiling-Hung Electric Room Heaters*, 2014, revised 2018 2022 .

UL 1313, *Nonmetallic Safety Cans for Petroleum Products*, 2015.

UL 1315, *Metal Waste Paper Containers*, 2017.

UL 1316, *Fibre Reinforced Underground Storage Tanks for Flammable and Combustible Liquids*, 2018, revised 2019 .

UL 1363, *Relocatable Power Taps*, 2018.

UL 1363A, *Outline of Investigation for Special Purpose Relocatable Power Taps*, 2010.

UL 1369, *Above Ground Piping for Flammable and Combustible Liquids*, 2018, revised 2020 .

CAN/UL 1389, Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations , 2019, revised 2021.

UL 1479, *Fire Tests of Penetration Firestops*, 2015, revised 2021 .

UL 1484 , *Residential Gas Detectors*, 2016, revised 2017 2022 .

UL 1564, *Industrial Battery Chargers*, 2015, revised 2020 .

UL 1573, *Stage and Studio Luminaires and Connector Strips*, 2003, revised 2019 .

UL 1640, *Portable Power-Distribution Equipment*, 2016, revised 2021 .

UL 1715, *Fire Test of Interior Finish Material*, 1997, revised 2022 .

UL 1803, *Factory Follow-up on Third Party Certified Portable Fire Extinguishers*, 2012, revised 2021 .

UL 1973, *~~Standard for Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications and Motive Auxiliary Power Applications~~* , 2018 2022 .

UL 1975, *Fire Tests for Foamed Plastics Used for Decorative Purposes*, 2006.

UL 1994, *Luminous Egress Path Marking Systems*, 2015, revised 2020 .

UL 2011, *Outline of Investigation for Machinery*, 2019, revised 2021 .

UL 2034, *Single and Multiple Station Carbon Monoxide Alarms*, 2017, revised 2018.

UL 2075, *Gas and Vapor Detectors and Sensors*, 2013, revised 2018 2021 .

UL 2079, *Tests for Fire Resistance of Building Joint Systems*, 2015, revised 2020 .

UL 2080, *Fire Resistant Tanks for Flammable and Combustible Liquids*, 2000.

UL 2085, *Protected Aboveground Tanks for Flammable and Combustible Liquids*, 1997, revised 2010 .

UL 2129, *Halocarbon Clean Agent Fire Extinguishers*, 2017, revised 2021 .

UL 2208, *Solvent Distillation Units*, 2010, revised 2020 .

UL 2245, *Below-Grade Vaults for Flammable Liquid Storage Tanks*, 2006.

UL 2258, *Aboveground Nonmetallic Tanks for Fuel Oil and Other Combustible Liquids*, 2018, revised 2019 .

CAN/UL 2272, *Electrical Systems for Personal E-Mobility Devices*, 2016, revised 2019.

UL 2358, *Outline of Investigation for Fire Tests of Pre-Lit Artificial Seasonal Use Trees and Other Seasonal Decorative Items*, 2013.

UL 2368, *Fire Exposure Testing of Rigid Nonmetallic and Composite Nonmetallic Intermediate Bulk Containers for Flammable and Combustible Liquids*, 2012, revised 2018 .

UL 2524, *In-building 2-Way Emergency Radio Communication Enhancement Systems*, 2019.

UL 2586, *Hose Nozzle Valves for Flammable and Combustible Liquids*, 2011 2021 .

UL 2586A, *Hose Nozzle Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0–E85)*, 2015, (revised 2019) .

CAN/UL 2849, *Electrical Systems for eBikes*, 2020.

UL 2930, *Outline of Investigation for Cord-and-Plug-Connected Health Care Facility Outlet Assemblies*, 2020.

UL 3400, *Outline of Investigation for Additive Manufacturing Facility Safety Management*, 2017.

UL 9540, *Energy Storage Systems and Equipment*, 2016 2020, revised 2021 .

UL 60601-1, *Medical Electrical Equipment, Part 1: General Requirements for Safety*, 2003, revised 2006 .

UL 60950-1, *Information Technology Equipment — Safety — Part 1: General Requirements*, 2007, revised 2019 .

UL 62368-1, *Audio/Video, Information and Communication Technology Equipment — Part 1: Safety Requirements*, 2014 2019, revised 2021 .

2.3.21 ULC Publications.

ULC Standards, 171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4, Canada.

CAN/ULC 8800, *Horticultural Lighting Equipment and Systems*, 2019, revised 2022 .

CAN/ULC-S503, *Carbon-Dioxide Fire Extinguishers*, 2005.

CAN/ULC-S504, *Dry Chemical Fire Extinguishers*, 2012, revised 2021 .

CAN/ULC-S507, *Water Fire Extinguishers*, 2005, revised 2021 .

CAN/ULC-S508, *Rating and Testing of Fire Extinguishers*, 2018.

CAN/ULC-S512, *Halogenated Agent Hand and Wheeled Fire Extinguishers*, 2005.

CAN/ULC-S554, *Water Based Agent Fire Extinguishers*, 2016.

CAN/ULC-S566, *Halocarbon Clean Agent Fire Extinguishers*, 2017, revised 2021 .

2.3.22 UN Publications.

United Nations Headquarters, New York, NY 10017.

Recommendations on the Transport of Dangerous Goods, 19th revised edition, 2015.

Manual of Tests and Criteria, Part II, 5th 7th edition, 2010 2019 .

2.3.23 U.S. Government Publications.

U.S. Government Publishing Office, 732 North Capitol Street, NW, Washington, DC 20401-0001.

FAA AC 150/5390-2C, *Heliport Design Advisory Circular*, April 24, 2012.

Interstate Commerce Commission (ICC), *Rules for Construction of Unfired Pressure Vessels*, U.S. Department of Transportation, Washington, DC.

Resource Conservation and Recovery Act (RCRA), U.S. Department of Transportation, Washington, DC, 1976.

Title 16, Code of Federal Regulations, Part 1500.41, "Method of Testing Primary Irritant Substances."

Title 16, Code of Federal Regulations, Part 1632, "Standard for the Flammability of Mattresses and Mattress Pads," (FF 4-72).

Title 21, Code of Federal Regulations, Part 210, "Processing, Packing, or Holding Drugs; General."

Title 21, Code of Federal Regulations, Part 211, "Current Good Manufacturing Practice for Finished Pharmaceuticals."

Title 27, Code of Federal Regulations, Part 555.

Title 29, Code of Federal Regulations, Part 1910.242(b), "Compressed Air Used for Cleaning."

Title 29, Code of Federal Regulations, Part 1910.1000, "Air Contaminants."

Title 29, Code of Federal Regulations, Part 1910.1200, "Hazard Communication."

Title 46, Code of Federal Regulations, Parts 30, 32, 35, and 39, "Shipping."

Title 49, Code of Federal Regulations, Parts 100 through 199.

Title 49, Code of Federal Regulations, Part 173, "Shippers — General Requirements for Shipments and Packages."

Title 49, Code of Federal Regulations, Part 173, Annex H, "Method of Testing for Sustained Combustibility."

Title 49, Code of Federal Regulations, Part 180.205, "General Requirements for Requalification of Specification Cylinders."

Title 49, Code of Federal Regulations, Part 571.108, "Lamps, Reflective Devices, and Associated Equipment."

2.3.24 Other Publications.

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

Supplemental Information

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Response to PC-3: All changes were incorporated with exception of where a more current edition was released after the PC was submitted, the later edition was used, with the exception of ANSI/IIAR 9 and ANSI/IIAR CO2. These two documents are not currently referenced in NFPA 1. If there is an SR that adds a reference to these documents, they will be added once the SR is generated.

Response to PC-4: All changes were incorporated with exception of where a more current edition was released after the PC was submitted, the later edition was used.

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[Public Comment No. 3-NFPA 1-2021 \[Section No. 2.3.14\]](#)



Second Revision No. 21-NFPA 1-2022 [Section No. 2.4]

2.4 References for Extracts in Mandatory Sections.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2018 2022 edition.

NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2019 2022 edition.

NFPA 14, *Standard for the Installation of Standpipe and Hose Systems*, 2019 2023 edition.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems*, 2021 edition.

NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection*, 2019 2022 edition.

NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, 2020 2023 edition.

NFPA 30, *Flammable and Combustible Liquids Code*, 2021 edition.

NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, 2021 edition.

NFPA 30B, *Code for the Manufacture and Storage of Aerosol Products*, 2019 2023 edition.

NFPA 31, *Standard for the Installation of Oil-Burning Equipment*, 2020 edition.

NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, 2021 edition.

NFPA 34, *Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids*, 2018 2021 edition.

NFPA 36, *Standard for Solvent Extraction Plants*, 2017 2021 edition.

NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals*, 2019 edition.

NFPA 51B, *Standard for Fire Prevention During Welding, Cutting, and Other Hot Work*, 2019 edition.

NFPA 52, *Vehicular Natural Gas Fuel Systems Code*, 2019 2023 edition.

NFPA 55, *Compressed Gases and Cryogenic Fluids Code*, 2020 edition.

NFPA 58, *Liquefied Petroleum Gas Code*, 2020 edition.

NFPA 59A, *Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG)*, 2019 2023 edition.

NFPA 61, *Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities*, 2020 edition.

NFPA 68, *Standard on Explosion Protection by Deflagration Venting*, 2018 2023 edition.

NFPA 69, *Standard on Explosion Prevention Systems*, 2019 edition.

NFPA 70[®], *National Electrical Code*[®], 2020 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 2022 edition.

NFPA 80, *Standard for Fire Doors and Other Opening Protectives*, 2019 2022 edition.

NFPA 88A, *Standard for Parking Structures*, 2019 edition.

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*, 2021 edition.

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2021 edition.

NFPA 101[®], *Life Safety Code*[®], 2021 edition.

NFPA 140, *Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations*, 2018 edition.

NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*, 2019 edition.

NFPA 241, ~~*Standard for Safeguarding Construction, Alteration, and Demolition Operations*~~,

~~2019 edition.~~

NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, 2021 edition.

NFPA 307, *Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves*, 2021 edition.

NFPA 312, *Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up*, 2021 edition.

NFPA 400, *Hazardous Materials Code*, 2019 2022 edition.

~~NFPA 402, *Guide for Aircraft Rescue and Fire-Fighting Operations*, 2019 edition.~~

NFPA 407, *Standard for Aircraft Fuel Servicing*, 2017 2022 edition.

NFPA 415, *Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways*, 2016 edition.

NFPA 418, *Standard for Heliports*, 2016 2021 edition.

NFPA 470, *Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders*, 2022 edition.

~~NFPA 472, *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents*, 2018 edition.~~

NFPA 652, *Standard on the Fundamentals of Combustible Dust*, 2019 edition.

NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, 2020 edition.

NFPA 805, *Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants*, 2020 edition.

NFPA 914, *Code for the Protection of Historic Structures*, 2019 2023 edition.

NFPA 1031, *Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, 2014 edition.

NFPA 1124, *Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles*, 2022 edition.

NFPA 1140, *Standard for Wildland Fire Protection*, 2022 edition.

~~NFPA 1141, *Standard for Fire Protection Infrastructure for Land Development in Wildland, Rural, and Suburban Areas*, 2017 edition.~~

NFPA 1142, *Standard on Water Supplies for Suburban and Rural Fire Fighting*, 2017 2022 edition.

~~NFPA 1144, *Standard for Reducing Structure Ignition Hazards from Wildland Fire*, 2018 edition.~~

NFPA 1730, *Standard on Organization and Deployment of Fire Prevention Inspection and Code Enforcement, Plan Review, Investigation, and Public Education Operations*, 2019 edition.

NFPA 5000[®], *Building Construction and Safety Code*[®], 2021 edition.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
SR_21_2.4_NFPAExtractPubs.docx		

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 09:00:31 EDT 2022

Committee Statement

Committee Statement: Updating all extract documents to the most current edition as outlined in the NFPA Extract Policy. Updates within the body of the text are updated via separate first or second revisions.

Response Message: SR-21-NFPA 1-2022



Second Revision No. 14-NFPA 1-2022 [Section No. 3.3.15]

3.3.18 ASME.

American Society of Mechanical Engineers. [58, 2020] (FCC-FUN HAZ)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 07:56:25 EDT 2022

Committee Statement

Committee Statement: The FCC-FUN committee is requesting the definition for ASME to be reassigned to FCC-HAZ. ASME relates to the scope of FCC-HAZ and is the only extract from NFPA 58 for the FCC-FUN committee, and will reduce the number of TIAs required to update NFPA 58 extracts.

Request to FCC-AAC: Review the reassignment of this definition.

Response Message: SR-14-NFPA 1-2022



Second Revision No. 15-NFPA 1-2022 [Section No. 3.3.17]

3.3.20 ASTM.

American Society for Testing and Materials, now known as “ASTM International.” [55, 2020]
(FCC-FUN HAZ)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 07:59:28 EDT 2022

Committee Statement

Committee Statement: The FCC-FUN committee is requesting the definition for ASME to be reassigned to FCC-HAZ. ASTM relates to the scope of FCC-HAZ and is one of the few extracts from NFPA 55 for the FCC-FUN committee, and will reduce the number of TIAs required to update NFPA 55 extracts.

Request to FCC-AAC: Review the reassignment of this definition.

Response Message: SR-15-NFPA 1-2022



Second Revision No. 9-NFPA 1-2022 [Section No. 3.3.54.1]

3.3.58.1 Building Code.

The building ~~or construction~~ code ~~adopted~~ enforced by the jurisdiction or agency enforcing this Code . [~~55~~ 101 ,2020 2021] (FCC-FUN)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Mon Mar 21 10:28:38 EDT 2022

Committee Statement

Committee Statement: NFPA 101 was a more appropriate extract tag for this definition, since the majority of the uses of this term are in NFPA 101 extracted sections.

Response Message: SR-9-NFPA 1-2022



Second Revision No. 16-NFPA 1-2022 [Section No. 3.3.54.2]

3.3.58.2 Electrical Code.

The electrical code ~~referenced in Section 2.2~~ adopted by the jurisdiction . (FCC-FUN)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 08:49:52 EDT 2022

Committee Statement

Committee Statement: Where electrical code is referenced in NFPA 1 it should be the code adopted in the jurisdiction.

Response Message: SR-16-NFPA 1-2022



Second Revision No. 18-NFPA 1-2022 [Section No. 3.3.54.3]

3.3.58.3 Mechanical Code.

The mechanical or mechanical construction code adopted by the jurisdiction. [55, 2020] (FCC-FUN HAZ)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 08:53:46 EDT 2022

Committee Statement

Committee Statement: The FCC-FUN committee is requesting the definition for ASME to be reassigned to FCC-HAZ. ASTM relates to the scope of FCC-HAZ and is one of the few extracts from NFPA 55 for the FCC-FUN committee, and will reduce the number of TIAs required to update NFPA 55 extracts.

Request to FCC-AAC: Review the reassignment of this definition.

Response Message: SR-18-NFPA 1-2022



Second Revision No. 17-NFPA 1-2022 [Section No. 3.3.54.4]

3.3.58.4 Plumbing Code.

The plumbing code adopted by the jurisdiction ~~referenced in Section 2.2~~ . (FCC-FUN)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 08:50:43 EDT 2022

Committee Statement

Committee Statement: Where the plumbing code is referenced in NFPA 1 it should be the code adopted in the jurisdiction.

Response Message: SR-17-NFPA 1-2022



Second Revision No. 28-NFPA 1-2022 [Section No. 3.3.128]

3.3.131* Fire Hydrant.

A valved connection on a water supply system having one or more outlets and that is used to supply hose and fire department pumpers with water. [~~1141~~ 1140 ,2017 2022] (FCC-FUN)

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 09:42:32 EDT 2022

Committee Statement

Committee Statement: NFPA documents are updated to the most current edition to comply with the NFPA Extract Policy. Changes within the extracted text have been reviewed by the technical committee. For substantiation on any technical changes, see the second draft report for the source document.

NFPA 1141 was withdrawn and consolidated into NFPA 1140.

Response Message: SR-28-NFPA 1-2022



Second Revision No. 26-NFPA 1-2022 [Section No. 3.3.167]

3.3.170* Incident Commander (IC).

The individual responsible for all incident activities, including the development of strategies and tactics and the ordering and the release of resources. [472 470 ,2018 2022] (FCC-FUN)

A.3.3.170 Incident Commander (IC).

This position is equivalent to the on-scene ~~incident commander~~ Incident Commander as defined in OSHA 1910.120(8), Hazardous Waste Operations and Emergency Response. The Incident Commander (IC) has overall authority and responsibility for conducting incident operations and is responsible for the management of all incident operations at the incident site. [472 470 ,2018 2022]

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 09:13:33 EDT 2022

Committee Statement

Committee Statement: NFPA documents are updated to the most current edition to comply with the NFPA Extract Policy. Changes within the extracted text have been reviewed by the technical committee. For substantiation on any technical changes, see the second draft report for the source document.

Response Message: NFPA 472 was withdrawn and requirements were consolidated in to NFPA 470.
SR-26-NFPA 1-2022



Second Revision No. 35-NFPA 1-2022 [New Section after 3.3.191]

3.3.195* Micromobility Device, Powered.

Motorized bicycles, motorized scooters, or other personal transportation devices powered by lithium-ion or lithium metal batteries. (FCC-FUN)

A.3.3.195 Micromobility Device, Powered.

Micromobility devices are not intended to include motor vehicles that are required to be registered with a governmental agency. Nor is it intended to include motorized wheelchairs, medical scooters, shopping carts, golf carts, or electrical convenience vehicles.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 15:01:55 EDT 2022

Committee Statement

Committee Statement: These definitions are added for new terms that were added by SR-36.

Response Message: SR-35-NFPA 1-2022

**Second Revision No. 37-NFPA 1-2022 [Section No. 10.10.6]****10.10.6** Cooking Equipment.**10.10.6.1**

~~For Unless permitted by 10.10.6.2 , for other than one- and two-family dwellings, hibachi outdoor cooking appliances , grill grills , or other similar devices using a solid, gas, or liquid fuel intended for cooking, heating, or any other purpose shall not be used or kindled, or stored in any of the following locations: on any balcony, under any overhanging portion, or within 10 ft (3 m) of any structure.~~

- ~~(1) on On~~ any balcony,
- ~~(2) under Under~~ any overhanging portion, of a structure
- ~~(3) or within Within~~ 10 ft (3 m) of any structure.

10.10.6.2

~~In residential occupancies protected throughout by an approved sprinkler system, which includes the areas in 10.10.6.1(1) and 10.10.6.1(2) or of Type I or Type II construction , electrically powered hibachi, grills, or other similar devices cooking appliances listed and labeled in accordance with UL 1026, *Standard for Household Electric Cooking and Food Serving Appliances*, and operated in accordance with its listing and the manufacturer's instructions shall be permitted to be used on any balcony or stored in any of the locations in 10.10.6.1 .~~

10.10.6.2.1

Electric cooking equipment intended for exterior use in accordance with 10.10.6.2 shall not be used in any enclosed space.

10.10.6.2.2

A minimum clearance of 24 in. (610 mm) shall be maintained from the building and combustibles, unless otherwise permitted by the manufacturer's instructions.

10.10.6.3

~~For other than one- and two-family dwellings, no hibachi, grill, or other similar devices used for cooking shall be stored on a balcony.~~

10.10.6.3*

Listed equipment permanently installed in accordance with its listing, applicable codes, and manufacturer's instructions shall be permitted.

A.10.10.6.3

It is not the intent of this paragraph 10.10.6.3 to allow the permanent installation of portable equipment unless it is permitted by its listing.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
SR_37_10.10.6_OutdoorCooking.docx		

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 15:12:38 EDT 2022

Committee Statement

Committee Statement: The revisions to section 10.10.6.1 cover the use and storage of outdoor cooking appliances and the specific locations where these appliances are prohibited are listed and removed "hibachi" as the definition referenced a charcoal grill. Allowances to use and store listed electric cooking appliances in outdoor spaces was clarified.

The requirement for sprinkler protection within the building and construction type requirements were added to limit potential fire spread through the interior of the building. A requirement for exterior sprinklers was added due to the increased fire risk on the patio/balcony.

The requirement for minimum clearance to combustibles was added to provide AHJs and inspectors guidance and an aid to enforcement on minimum clearances where they might not have immediate access to the manufacturer's instructions.

Response Message: SR-37-NFPA 1-2022

[Public Comment No. 13-NFPA 1-2021 \[Section No. 10.10.6\]](#)



Second Revision No. 11-NFPA 1-2022 [Section No. 10.10.9.1]

10.10.9.1*

Welding torches, tar pots, decorative torches, and other devices, machines, or processes liable to start or cause an unwanted fire shall not be operated or used in or upon any areas, except by permit from the AHJ.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Mon Mar 21 11:33:30 EDT 2022

Committee Statement

Committee Statement: It is the opinion of the committee that this is not a technical change in the requirements, but instead provides clarity to the application of this requirement. This aligns with the permitting language that was added to Table 1.13.8(a).

Response Message: SR-11-NFPA 1-2022



Second Revision No. 12-NFPA 1-2022 [Section No. 10.14.9]

10.14.9 Cooking.

Concession stands utilized for cooking shall ~~have a minimum of 10 ft (3 m) of clearance on two sides and shall not be located within 10 ft (3 m) of amusement rides or devices~~ comply with both of the following:-

- (1) ~~have~~ Have a minimum of 10 ft (3 m) of clearance on ~~two~~ sides and ~~where an exposure exists~~
- (2) ~~shall not~~ Not be located within 10 ft (3 m) of amusement rides or devices.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Mon Mar 21 14:58:07 EDT 2022

Committee Statement

Committee Statement: As currently worded it does not provide any guidance on which two sides and the intent to not expose other concession stands to fire. The new language provides additional clarification on where clearance should be provided.

Response Message: SR-12-NFPA 1-2022

Public Comment No. 20-NFPA 1-2022 [Section No. 10.14.9]



Second Revision No. 34-NFPA 1-2022 [Section No. 10.19.3]

10.19.3 Ceiling Clearance.

10.19.3.1

Storage shall be maintained 2 ft (0.61 m) or more from the ceiling in nonsprinklered areas of buildings.

10.19.3.2

~~The~~ Unless greater distances are required by 10.19.3.3, 10.19.3.4, or 10.19.3.5, or lesser distances permitted by 10.19.3.6, clearance between the deflector and the top of storage shall be 18 in. (450 ~~457~~ mm) or greater. [~~13: 10.2.8.1~~ 25: 5.2.1.2.1]

10.19.3.3

Clearance between the deflector and the top of storage shall be 36 in. (914 mm) or greater for special sprinklers. [25: 5.2.1.2.2]

10.19.3.4

Where standards other than NFPA 13 specify greater clearance to storage minimums, they shall be followed. [25: 5.2.1.2.3]

10.19.3.5

Clearance from the top of storage to sprinkler deflectors shall be 36 in. (914 mm) or greater where rubber tires are stored. [25: 5.2.1.2.4]

10.19.3.6

In-rack sprinklers shall not be required to meet the obstruction criteria and clearance from storage requirements. [25: 5.2.1.2.5]

10.19.3.7

Clearance between the deflector and the top of storage shall be permitted to be less than 18 in. (457 mm) where shown to be permitted by the installation standard. [25: 5.2.1.2.6]

10.19.3.3

~~The 18 in. (450 mm) dimension shall not limit the height of shelving on a wall or shelving against a wall in accordance with 10.2.8, 10.3.7, 11.2.6, and Sections 11.3 and 12.1 of NFPA 13. [13: 9.5.6.6]~~

10.19.3.3.1

~~Where shelving is installed on a wall and is not directly below sprinklers, the shelves, including storage thereon, shall be permitted to extend above the level of a plane located 18 in. (450 mm) below ceiling sprinkler deflectors. [13: 9.5.6.6.1]~~

10.19.3.3.2

~~Shelving, and any storage thereon, directly below the sprinklers shall not extend above a plane located 18 in. (450 mm) below the ceiling sprinkler deflectors. [13: 9.5.6.6.2]~~

10.19.3.4

~~Where other standards specify greater clearance to storage minimums, they shall be followed. [13: 10.2.8.2]~~

Supplemental Information

File Name

Description

Approved

SR_34_10.19.3_CeilingClearance.docx

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 14:55:41 EDT 2022

Committee Statement

Committee Statement: This section is primarily used for maintenance and inspection purposes, therefore, reference to NFPA 25 requirements for ceiling clearance is more appropriate.

Response Message: SR-34-NFPA 1-2022



Second Revision No. 36-NFPA 1-2022 [New Section after 10.20.1.5]

10.21 Powered Micromobility Devices.

10.21.1 General.

Where more than five powered micromobility devices will be charged inside or within 10 ft (3 m) of a building or structure, the charging operation shall be in accordance with Section 10.21 .

10.21.2 Charging Equipment.

Powered micromobility devices shall be charged in accordance with their listing and the manufacturer's instructions using either the original-equipment-manufacturer-supplied listed charging equipment or listed charging equipment specified in the manufacturer's instructions.

10.21.3 Listing.

Powered micromobility devices and portable battery packs shall be listed and labeled in accordance with UL 2272, *Electrical Systems for Personal E-Mobility Devices* , or UL 2849, *Electrical Systems for eBikes*, as applicable.

10.21.4 Battery Charging.

Battery charging for powered micromobility devices shall be in accordance with all of the following:

- (1) The charging equipment for each device shall be plugged directly into a listed receptacle.
- (2) Extension cords and relocatable power taps shall not be utilized.
- (3) Storage of combustible materials, combustible waste, or hazardous materials shall not be permitted within 10 ft (3 m) of the charging equipment.
- (4) The charging operation shall not be located in any exit access corridor or exit enclosure

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 15:06:02 EDT 2022

Committee Statement

Committee Statement: We made changes to PI 161 in legislative text for CI 109 for second draft consideration. We addressed the following:

- Listed receptacles vs approved, no one approves receptacles.
- Increased combustible waste or hazardous material separation from 3 ft to 10 ft and emphasized distance from the micromobility device vs the charger because the hazard is where the batteries are not where location in which the charger is plugged.
- We better defined what parts of egress charging operations in which should not take place.

See SR-35 for new definition for micro mobility device.

Note to Editorial: Add the following reference publications to 2.3.17:

CAN/UL 2272, Electrical Systems for Personal E-Mobility Devices, 2016, revised 2019.

CAN/UL 2849, Electrical Systems for eBikes, 2020.

SR-36-NFPA 1-2022

**Response
Message:**



Second Revision No. 13-NFPA 1-2022 [Section No. 11.1.4.5]

11.1.4.5*

Where approved by the AHJ, in conference rooms or meeting rooms not more than five relocatable power taps shall be permitted to be connected together for temporary use in support of electronic equipment.

A.11.1.4.5

Conference rooms and meeting rooms do not always provide a sufficient number of wall outlet or floor outlets in proximate locations to facilitate the use of portable computers and similar electronic devices by participants. The intent is for only electronic equipment with a low current draw to be permitted under this exception while the room is in use for meeting purposes.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Mon Mar 21 15:03:53 EDT 2022

Committee Statement

Committee Statement: Daisy chaining relocatable power taps is not currently permitted in UL 1363. This code requirement would create a condition which permits relocatable power taps to be used outside of their listing. The committee will reconsider this requirement if there is a change within the UL standard.

Response Message: SR-13-NFPA 1-2022

[Public Comment No. 18-NFPA 1-2022 \[Section No. 11.1.4.5\]](#)

[Public Comment No. 27-NFPA 1-2022 \[Section No. 11.1.4.5\]](#)



Second Revision No. 31-NFPA 1-2022 [Section No. 11.7.2]

11.7.2* Stationary Combustion Engines and Gas Turbines Installation.

Stationary generator sets shall be installed in accordance with NFPA 37 and *NFPA 70*.

A.11.7.2

For additional information, see UL 2200, *Standard for Stationary Engine Generator Assemblies* .

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 10:08:40 EDT 2022

Committee Statement

Committee Statement: NFPA 70 requires the listing of stationary generators. The PC adds a reference in the annex to the listing requirement. The scope of UL 2200 does list both the NFPA 70 and NFPA 37 as requirements to be met for installation and use.

Response Message: SR-31-NFPA 1-2022

Public Comment No. 49-NFPA 1-2022 [Section No. 11.7.2]



Second Revision No. 25-NFPA 1-2022 [Section No. A.3.3.130]

A.3.3.131 Fire Hydrant.

See Figure A.3.3.131(a) and Figure A.3.3.131(b). [25,2020 2023]

Figure A.3.3.131(a) Typical Fire Hydrant Connection. [25:Figure A.3.3.13 14 (a)]

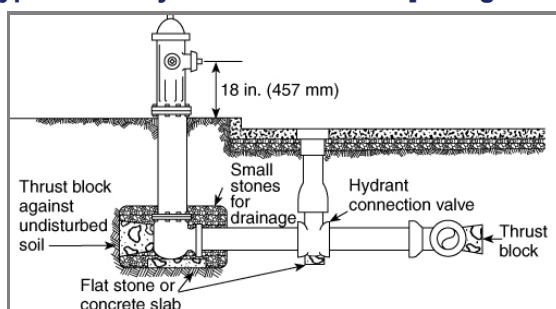
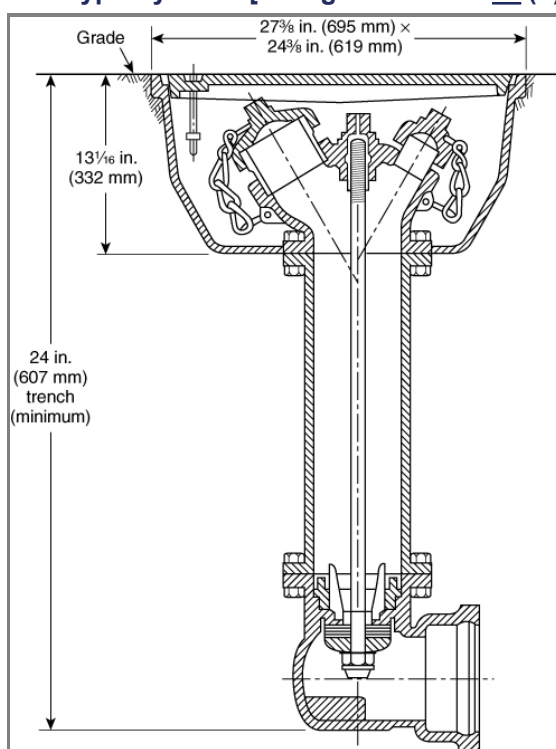


Figure A.3.3.131(b) Flush-Type Hydrant. [25:Figure A.3.3.13 14 (b)]



Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 09:11:53 EDT 2022

Committee Statement

Committee Statement: NFPA documents are updated to the most current edition to comply with the NFPA Extract Policy. Changes within the extract text have been reviewed by the technical

**Response
Message:**

committee. For substantiation on any technical changes, see second draft report for the source document.

SR-25-NFPA 1-2022



Second Revision No. 33-NFPA 1-2022 [Section No. B.1]

B.1

The following sample ordinance is provided to assist a jurisdiction in the adoption of this *Code* and is not part of this *Code*.

ORDINANCE NO. _____

An ordinance of the *[jurisdiction]* adopting the *[year]* edition of NFPA 1, *Fire Code*, ~~2021 edition~~; and documents listed in Chapter 2 of that *Code*; prescribing regulations governing conditions hazardous to life and property from fire or explosion; providing for the issuance of permits and collection of fees; repealing Ordinance No. _____ of the *[jurisdiction]* and all other ordinances and parts of ordinances in conflict therewith; providing a penalty; providing a severability clause; and providing for publication; and providing an effective date.

BE IT ORDAINED BY THE*[governing body]***OF THE***[jurisdiction]*:

SECTION 1 That the _____ *[year]* edition NFPA 1, *Fire Code*, ~~2021 edition~~, and documents adopted by Chapter 2, three (3) copies of which are on file and are open to inspection by the public in the office of the *[jurisdiction's keeper of records]* of the *[jurisdiction]*, are hereby adopted and incorporated into this ordinance as fully as if set out at length herein, and from the date on which this ordinance shall take effect, the provisions thereof shall be controlling within the limits of the *[jurisdiction]*. The same are hereby adopted as the code of the *[jurisdiction]* for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion and providing for issuance of permits and collection of fees.

SECTION 2 Any person who shall violate any provision of this *Code* or standard hereby adopted or fail to comply therewith; or who shall violate or fail to comply with any order made thereunder; or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder; or fail to operate in accordance with any certificate or permit issued thereunder; and from which no appeal has been taken; or who shall fail to comply with such an order as affirmed or modified by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and noncompliance, respectively, be guilty of a misdemeanor, punishable by a fine of not less than \$ _____ nor more than \$ _____ or by imprisonment for not less than _____ days nor more than _____ days or by both such fine and imprisonment. The imposition of one penalty for any violation shall not excuse the violation or permit it to continue; and all such persons shall be required to correct or remedy such violations or defects within a reasonable time; and when not otherwise specified the application of the above penalty shall not be held to prevent the enforced removal of prohibited conditions. Each day that prohibited conditions are maintained shall constitute a separate offense.

SECTION 3 Additions, insertions, and changes — that the _____ *[year]* edition of NFPA 1, *Fire Code*, ~~2021 edition~~, is amended and changed in the following respects:

[List Amendments]

SECTION 4 That ordinance No. _____ of *[jurisdiction]* entitled *[fill in the title of the ordinance or ordinances in effect at the present time]* and all other ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION 5 That if any section, subsection, sentence, clause, or phrase of this ordinance is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity or constitutionality of the remaining portions of this ordinance. The *[governing body]* hereby declares that it would have passed this ordinance, and each section, subsection, clause, or phrase hereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared unconstitutional.

SECTION 6 That the *[jurisdiction's keeper of records]* is hereby ordered and directed to cause this ordinance to be published.

[NOTE: An additional provision may be required to direct the number of times the ordinance is to be published and to specify that it is to be in a newspaper in general circulation. Posting may also be required.]

SECTION 7 That this ordinance and the rules, regulations, provisions, requirements, orders, and matters established and adopted hereby shall take effect and be in full force and effect *[time period]* from and after the date of its final passage and adoption.

Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 12:08:16 EDT 2022

Committee Statement

Committee Statement: This change removes the year for the edition of the Fire Code. This is a general form used for the adoption of the Fire Code and it should be up to the adopting agency to determine the applicable edition.

Response Message: SR-33-NFPA 1-2022



Second Revision No. 22-NFPA 1-2022 [Section No. F.1.1]

F.1.1 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 2, *Hydrogen Technologies Code*, 2020 2023 edition.

NFPA 3, *Standard for Commissioning of Fire Protection and Life Safety Systems*, 2021 2024 edition.

NFPA 4, *Standard for Integrated Fire Protection and Life Safety System Testing*, 2021 2024 edition.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2018 2022 edition.

NFPA 11, *Standard for Low-, Medium-, and High-Expansion Foam*, 2016 2021 edition.

NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2019 2022 edition.

NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*, 2019 2022 edition.

NFPA 13E, *Recommended Practice for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems*, 2020 edition.

NFPA 13R, *Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies*, 2019 2022 edition.

NFPA 14, *Standard for the Installation of Standpipe and Hose Systems*, 2019 2023 edition.

NFPA 15, *Standard for Water Spray Fixed Systems for Fire Protection*, 2017 2022 edition.

~~NFPA 16, *Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*, 2019 edition.~~

NFPA 17, *Standard for Dry Chemical Extinguishing Systems*, 2021 2024 edition.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems*, 2021 2024 edition.

NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection*, 2019 2022 edition.

NFPA 22, *Standard for Water Tanks for Private Fire Protection*, 2018 2023 edition.

NFPA 24, *Standard for the Installation of Private Fire Service Mains and Their Appurtenances*, 2019 2022 edition.

NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, 2020 2023 edition.

NFPA 30, *Flammable and Combustible Liquids Code*, 2021 2024 edition.

NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, 2021 2024 edition.

NFPA 30B, *Code for the Manufacture and Storage of Aerosol Products*, 2019 2023 edition.

NFPA 31, *Standard for the Installation of Oil-Burning Equipment*, 2020 edition.

NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, 2018 2021 edition.

NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals*, 2019 2023 edition.

NFPA 51, *Standard for the Design and Installation of Oxygen–Fuel Gas Systems for Welding, Cutting, and Allied Processes*, 2018 2023 edition.

NFPA 51B, *Standard for Fire Prevention During Welding, Cutting, and Other Hot Work*, 2019 2024 edition.

NFPA 52, *Vehicular Natural Gas Fuel Systems Code*, 2019 2023 edition.

NFPA 54, *National Fuel Gas Code*, 2021 2024 edition.

NFPA 55, *Compressed Gases and Cryogenic Fluids Code*, 2020 2023 edition.

NFPA 58, *Liquefied Petroleum Gas Code*, 2020 2023 edition.

NFPA 59A, *Standard for the Production, Storage, and Handling of Liquefied Natural Gas*

(LNG), 2019 2023 edition.

NFPA 61, *Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities*, 2020 edition.

NFPA 68, *Standard on Explosion Protection by Deflagration Venting*, 2018 2023 edition.

NFPA 69, *Standard on Explosion Prevention Systems*, 2019 edition.

NFPA 70[®], *National Electrical Code*[®], 2020 2023 edition.

NFPA 70E[®], *Standard for Electrical Safety in the Workplace*[®], 2021 2024 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 2022 edition.

NFPA 77, *Recommended Practice on Static Electricity*, 2019 2024 edition.

NFPA 80, *Standard for Fire Doors and Other Opening Protectives*, 2019 2022 edition.

NFPA 80A, *Recommended Practice for Protection of Buildings from Exterior Fire Exposures*, 2017 2022 edition.

NFPA 82, *Standard on Incinerators and Waste and Linen Handling Systems and Equipment*, 2019 edition.

NFPA 86, *Standard for Ovens and Furnaces*, 2019 2023 edition.

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*, 2021 2024 edition.

NFPA 90B, *Standard for the Installation of Warm Air Heating and Air-Conditioning Systems*, 2021 2024 edition.

NFPA 91, *Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids*, 2020 edition.

NFPA 92, *Standard for Smoke Control Systems*, 2018 2021 edition.

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2021 2024 edition.

NFPA 99, *Health Care Facilities Code*, 2021 2024 edition.

NFPA 101[®], *Life Safety Code*[®], 2021 2024 edition.

NFPA 101A, *Guide on Alternative Approaches to Life Safety*, 2019 2022 edition.

NFPA 102, *Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures*, 2016 2021 edition.

NFPA 105, *Standard for Smoke Door Assemblies and Other Opening Protectives*, 2019 2022 edition.

NFPA 110, *Standard for Emergency and Standby Power Systems*, 2019 2022 edition.

NFPA 170, *Standard for Fire Safety and Emergency Symbols*, 2018 2021 edition.

NFPA 204, *Standard for Smoke and Heat Venting*, 2018 2021 edition.

NFPA 220, *Standard on Types of Building Construction*, 2021 2024 edition.

NFPA 232, *Standard for the Protection of Records*, 2017 2022 edition.

NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*, 2019 2022 edition.

NFPA 252, *Standard Methods of Fire Tests of Door Assemblies*, 2017 2022 edition.

NFPA 257, *Standard on Fire Test for Window and Glass Block Assemblies*, 2017 2022 edition.

NFPA 259, *Standard Test Method for Potential Heat of Building Materials*, 2018 2023 edition.

NFPA 260, *Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture*, 2019 2023 edition.

NFPA 261, *Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes*, 2018 2023 edition.

NFPA 265, *Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls*, 2019 2023 edition.

NFPA 286, *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*, 2019 2023 edition.

NFPA 288, *Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies*, 2017 2022 edition.

NFPA 289, *Standard Method of Fire Test for Individual Fuel Packages*, 2019 2023 edition.

NFPA 291, *Recommended Practice for Fire Water Flow Testing and Marking of Hydrants*, 2019 2022 edition.

NFPA 302, *Fire Protection Standard for Pleasure and Commercial Motor Craft*, 2020 edition.

NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, 2021 edition.

NFPA 326, *Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair*, 2020 edition.

NFPA 329, *Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases*, 2020 edition.

NFPA 385, *Standard for Tank Vehicles for Flammable and Combustible Liquids*, 2017 2022 edition.

NFPA 400, *Hazardous Materials Code*, 2019 2022 edition.

NFPA 402, *Guide for Aircraft Rescue and Fire-Fighting Operations*, 2019 edition.

NFPA 409, *Standard on Aircraft Hangars*, 2021 2022 edition.

NFPA 415, *Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways*, 2021 2022 edition.

NFPA 418, *Standard for Heliports*, 2016 2021 edition.

NFPA 484, *Standard for Combustible Metals*, 2019 2022 edition.

NFPA 495, *Explosive Materials Code*, 2018 2023 edition.

NFPA 496, *Standard for Purged and Pressurized Enclosures for Electrical Equipment*, 2021 2024 edition.

NFPA 497, *Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas*, 2021 2024 edition.

NFPA 499, *Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas*, 2021 2024 edition.

NFPA 505, *Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations*, 2018 2023 edition.

NFPA 600, *Standard on Facility Fire Brigades*, 2020 edition.

NFPA 601, *Standard for Security Services in Fire Loss Prevention*, 2020 edition.

NFPA 610, *Guide for Emergency and Safety Operations at Motorsports Venues*, 2019 2024 edition.

NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, 2020 edition.

NFPA 655, *Standard for Prevention of Sulfur Fires and Explosions*, 2017 edition.

NFPA 701, *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films*, 2019 2023 edition.

NFPA 703, *Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials*, 2021 2024 edition.

NFPA 704, *Standard System for the Identification of the Hazards of Materials for Emergency Response*, 2017 2022 edition.

NFPA 730, *Guide for Premises Security*, 2020 2023 edition.

NFPA 731, *Standard for the Installation of Premises Security Systems*, 2020 2023 edition.

NFPA 801, *Standard for Fire Protection for Facilities Handling Radioactive Materials*, 2019 2020 edition.

NFPA 850, *Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations*, 2020 edition.

~~NFPA 851, *Recommended Practice for Fire Protection for Hydroelectric Generating Plants*, 2010 edition.~~

NFPA 855, *Standard for the Installation of Stationary Energy Storage Systems*, 2020 2023 edition.

NFPA 914, *Code for the Protection of Historic Structures*, 2019 2023 edition.

NFPA 921, *Guide for Fire and Explosion Investigations*, 2020 2021 edition.

NFPA 1030, *Standard for Professional Qualifications for Fire Prevention Program Positions*, 2024 edition.

~~NFPA 1031, *Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, 2014 edition.~~

NFPA 1033, *Standard for Professional Qualifications for Fire Investigator*, 2014 2022 edition.

~~NFPA 1035, *Standard on Fire and Life Safety Educator, Public Information Officer, Youth Firesetter Intervention Specialist, and Youth Firesetter Program Manager Professional Qualifications*, 2015 edition.~~

~~NFPA 1037, *Standard on Fire Marshal Professional Qualifications*, 2016 edition.~~

NFPA 1122, *Code for Model Rocketry*, 2018 edition.

NFPA 1123, *Code for Fireworks Display*, 2018 2022 edition.

NFPA 1124, *Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles*, 2021 2022 edition.

NFPA 1127, *Code for High Power Rocketry*, 2018 edition.

NFPA 1140, *Standard for Wildland Fire Protection*, 2022 edition.

~~NFPA 1141, *Standard for Fire Protection Infrastructure for Land Development in Wildland, Rural, and Suburban Areas*, 2017 edition.~~

NFPA 1142, *Standard on Water Supplies for Suburban and Rural Fire Fighting fighting*, 2017 2022 edition.

~~NFPA 1144, *Standard for Reducing Structure Ignition Hazards from Wildland Fire*, 2018 edition.~~

~~NFPA 1221, *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, 2019 edition.~~

NFPA 1225, *Standard for Emergency Services Communications*, 2022 edition.

~~NFPA 1600 [®], *Standard on Continuity, Emergency, and Crisis Management*, 2019 edition.~~

~~NFPA 1620, *Standard for Pre-Incident Planning*, 2020 edition.~~

NFPA 1660, *Standard on Community Risk Assessment, Pre-Incident Planning, Mass Evacuation, Sheltering, and Re-entry Programs*, 2024 edition.

NFPA 1730, *Standard on Organization and Deployment of Fire Prevention Inspection and*

Code Enforcement, Plan Review, Investigation, and Public Education Operations, 2019 edition.

NFPA 2112, *Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire*, 2018 2023 edition.

NFPA 2113, *Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire*, 2020 edition.

NFPA 3000[®] TM, *Standard for an Active Shooter/Hostile Event Response (ASHER) Program*, 2021 edition.

NFPA 5000[®], *Building Construction and Safety Code*[®], 2024 2024 edition.

NFPA *Fire Protection Guide to Hazardous Materials*, 2010 edition.

NFPA *Fire Protection Handbook*, 20th edition, 2008.

NFPA *Fire Technology*, August 1974, "Fire Tests of Building Interior Covering Systems."

Fire Protection Research Foundation (FPRF) Report, ~~*Development of Technical Basis for Carbon Monoxide Detector Siting*~~, prepared by C. Beyler and D. Gottuk, 2007.

~~*Lithium-Ion Batteries Hazard and Use Assessment*~~, NFPA Research Foundation, July 2011.

~~*Lithium-Ion Batteries Hazard and Use Assessment Phase IIB, Flammability Characterization of Li-ion Batteries for Storage Protection*~~, NFPA Research Foundation, April 2013.

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Supplemental Information

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F.1.2 Other Publications.

F.1.2.1 AIChE Publications.

American Institute of Chemical Engineers, 120 Wall Street, FL 23, New York, NY 10005-4020.

~~*Guidelines for Mechanical Integrity Systems* , 2006.~~

~~*Guidelines for Pressure Relief and Effluent Handling Systems* , 2017.~~

~~*Guidelines for Safe and Reliable Instrumented Protective Systems* , 2007.~~

~~*Guidelines for Safe Automation of Chemical Processes* , 2nd edition, 2016.~~

Guidelines for Safe Warehousing of Chemicals, 1998.

~~*Guidelines for Writing Effective Operating and Maintenance Procedures* , 1996.~~

F.1.2.2 AIHA Publications.

American Industrial Hygiene Association, 3141 Fairview Park Drive, Suite 777, Falls Church, VA 22042.

ANSI/AIHA Z40 Z10.0 , *Occupational Health and Safety Management Systems*, 2012 2019 .

F.1.2.3 ANSI Publications.

American National Standards Institute, Inc., 25 West 43rd Street, 4th Floor, New York, NY 10036.

ANSI/BHMA A156.41, *Standard for Door Hardware Single Motion to Egress*, 2017 2020 .

ANSI/ISA12.10.05, *Explosive Atmospheres — Part 10-2: Classification of Areas — Combustible Dust Atmospheres*, 2013.

~~ICC/ANSI A117.1 , *Standard for Accessible and Usable Buildings and Facilities* , 2017.~~

ANSI/AIHA Z9.7, *Recirculation of Air from Industrial Process Exhaust Systems*, 2007.

ANSI Z83.11/CSA 1.8, *Gas Food Service Equipment*, 2016.

ANSI Z400.1/Z129.1, *Hazardous Workplace Chemicals — Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation*, 2010.

ANSI/ISA 60079-10-2 (12.10.05)-2013 , *Explosive Atmospheres — Part 10-2: Classification of areas — Combustible dust atmospheres*, 2015 .

F.1.2.4 API Publications.

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005-4070.

~~API RP 12R1, *Setting, Maintenance, Inspection, Operation, and Repair of Tanks in Production Service*, 2008.~~

API RP 500, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division I and Division 2*, 3rd edition, 2012 addendum 1 (2021), 2020 .

ANSI/API RP 505, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, Zone 1, and Zone 2*, 2018.

API Standard 620, *Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, 12th edition, addendum 2 (2018), 2013.

API Standard 650, *Welded Tanks for Oil Storage*, 12th edition, addendum 3 (2018), 2013 errata 1 (2021), 2020 .

API Standard 653, *Tank Inspection, Repair, Alteration, and Reconstruction*, 5th edition, addendum 1 (2018 2014), addendum 2 (2018), addendum 3 (2021), 2014.

~~API 1501, *Filtration and Dehydration of Aviation Fuels*, 4th edition, 1965.~~

API RP 1615, *Installation of Underground Petroleum Storage Systems*, 6th edition, 2011, reaffirmed 2022 .

API RP 1621, *Bulk Liquid Stock Control at Retail Outlets*, 5th edition, 1993, reaffirmed 2012 2020 .

API 2003, *Protection Against Ignition Arising Out of Static, Lightning, and Stray Currents*, 8th edition, 2015, reaffirmed 2020 .

~~API 2015, *Cleaning Petroleum Storage Tanks*, 8th edition, 2018.~~

~~API RP 2016, *Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks*, 1st edition, 2001, reaffirmed 2006.~~

API 2218, *Fireproofing Practices in Petroleum and Petrochemical Processing Plants*, 3rd edition, 2013, reaffirmed 2020 .

API 2214, *Spark Ignition Properties of Hand Tools*, 4th edition, 2004, reaffirmed 2010.

~~API Standard 2610, *Design, Construction, Operation, Maintenance, and Inspection of Terminal & Tank Facilities*, 3rd edition, 2018.~~

"An Engineering Analysis of the Effects of Oxygenated Fuels on Marketing Vapor Recovery Equipment," September 1990.

API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases, Pre-July 1, 1961.

F.1.2.5 ASCE Publications.

American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400.

ASCE/SEI 7, *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*, 2016 edition.

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ASHRAE, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305.

ANSI/ASHRAE 34, *Designation and Safety Classification of Refrigerants*, 2019.

F.1.2.7 ASME Publications.

American Society of Mechanical Engineers, Two Park Avenue, New York, NY 10016-5990.

ASME A17.1/CSA B44, *Safety Code for Elevators and Escalators*, ~~2016~~ 2019 .

ASME A17.3, *Safety Code for Existing Elevators and Escalators*, ~~2017~~ 2020 .

ANSI/ASME B31.8, *Gas Transmission and Distribution Piping Systems*, ~~2018~~ 2020 .

ASME *Boiler and Pressure Vessel Code*, ~~2019~~ 2021 .

F.1.2.8 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM A380/A380M, *Standard Practice for Cleaning, Descaling, and Passivation of Stainless Steel Parts, Equipment, and Systems*, 2017.

ASTM C1055, *Standard Guide for Heated System Surface Conditions that Produce Contact Burn Injuries*, 2003 (reapproved 2014) 2020.

ASTM D2859, *Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials*, 2016 2021.

ASTM D4956, *Standard Specification for Retroreflective Sheeting for Traffic Control*, 2017 2019.

ASTM D6469, *Standard Guide for Microbial Contamination in Fuels and Fuel Systems*, 2017 2020.

ASTM D766 D7666, *Standard Specification for Triglyceride Burner Fuel*, 2012 2019.

ASTM E84, *Standard Test Method of Surface Burning Characteristics of Building Materials*, 2019a 2021a.

ASTM E119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, 2018c-e1 2020.

ASTM E648, *Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source*, 2017a 2019ae1.

ASTM E814, *Standard Test Method for Fire Tests of Through Penetration Firestop Systems*, 2013a (2017).

ASTM E1226, *Standard Test Method for Explosibility of Dust Clouds*, 2012a 2019.

ASTM E1352, *Standard Test Method for Cigarette Ignition Resistance of Mock-Up Upholstered Furniture Assemblies*, 2016.

ASTM E1353, *Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture*, 2016 2021.

ASTM E1354, *Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter*, 2017.

ASTM E1472, *Standard Guide for Documenting Computer Software for Fire Models*, 2007 (withdrawn 2011).

ASTM E1491, *Test Method for Minimum Autoignition Temperature of Dust Clouds*, 2006 (2019).

ASTM E1515, *Standard Test Method for Minimum Explosible Concentration of Combustible Dusts*, 2014.

ASTM E1537, *Standard Test Method for Fire Testing of Upholstered Furniture*, 2016.

ASTM E1590, *Standard Test Method for Fire Testing of Mattresses*, 2017 2022.

ASTM E2019, *Standard Test Method for Minimum Ignition Energy of a Dust Cloud in Air*, 2003 (2019).

ASTM E2021, *Standard Test Method for Hot-Surface Ignition of Dust Layers*, 2015.

ASTM E2030, *Guide for Recommended Uses of Photoluminescent (Phosphorescent) Safety Markings*, 2009a (withdrawn 2018).

ASTM E2174, *Standard Practice for On-Site Inspection of Installed Firestops*, 2018 2020a.

ASTM E2393, *Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers*, 2010a (2015) 2020a.

ASTM F1870, *Standard Guide for Selection of Fire Test Methods for the Assessment of Upholstered Furnishings in Detention and Correctional Facilities*, 2016.

ASTM F2291, *Standard Practice for Design of Amusement Rides or Devices*, 2019 2021.

F.1.2.9 AWS Publications.

American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33166-6672.

AWS F4.1, *Recommended Safe Practices for the Preparation for Welding and Cutting Containers and Piping*, 2017.

F.1.2.10 AWWA Publications.

American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235.

AWWA M14, *Backflow Prevention and Cross-Connection Control: Recommended Practices*, 4th edition, 2015.

F.1.2.11 California Department of Consumer Affairs Publications.

Bureau of Home Furnishings and Thermal Insulation, 3485 Orange Grove Avenue, North Highlands, CA 95660-5595.

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Compressed Gas Association, 14501 George Carter Way, Suite 103, Chantilly, VA 20151.

CGA C-6, *Standards for Visual Inspection of Steel Compressed Gas Cylinders*, 2013 2019 .

CGA C-6.1, *Standards for Visual Inspection of High Pressure Aluminum Compressed Gas Cylinders*, 2013 2019 .

CGA C-6.2, *Guidelines for Visual Inspection and Requalification of Fiber Reinforced High Pressure Cylinders*, 2013 2019 .

CGA C-10, *Recommended Procedures for Changes of Gas Service for Compressed Gas Cylinders*, 2013.

F.1.2.13 CSFM Publications.

California State Fire Marshal Publications, Office of the State Fire Marshal, 2251 Harvard Street, Sacramento, CA 95811.

Rings of Fire: Tire Fire Prevention and Suppression, 2005.

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Federal Aviation Administration, U.S. Department of Transportation, 800 Independence Avenue, SW, Washington, DC 20591.

FAA AC 150/5390-2C, *Heliport Design Advisory Circular*, April 24, 2012.

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FM Global, 270 Central Avenue, P.O. Box 7500, Johnston, RI 02919-4949.

ANSI/FM 4880, American National Standard for Evaluating the Fire Performance of Insulated Building Panel Assemblies and Interior Finish Materials, 2018.

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Fire Protection Research Foundation, 1 Batterymarch Park, Quincy, MA 02169-7471.

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Development of an Enhanced Hazard Classification System for Oxidizers, 2006.

Fire Protection Research Foundation, *Optimizing Fire Alarm Notification for High Risk Groups: Waking Effectiveness of Alarms (Auditory, Visual and Tactile) for Adults Who Are Hard of Hearing*, 2007.

Fire Protection Research Foundation, *Optimizing Fire Alarm Notification for High Risk Groups: Waking Effectiveness of Alarms (Auditory, Visual and Tactile) for the Alcohol Impaired*, 2007.

Fire Protection Research Foundation (FPRF) Report, *Development of Technical Basis for Carbon Monoxide Detector Siting*, prepared by C. Beyler and D. Gottuk, 2007.

National Oxidizing Pool Chemicals Storage Fire Test Project, August 1998.

F.1.2.17 IAPMO Publications.

International Association of Plumbing and Mechanical Officials, 4755 E. Philadelphia Street, Ontario, CA 91761.

UPC, *Uniform Plumbing Code*, 2018 2021.

F.1.2.18 ICAO Publications.

International Civil Aviation Organization, Document Sales Unit, 999 University Street, Montréal, Quebec, Canada, H3C 5H7, icaohq@icao.int

Technical Publications.

F.1.2.19 ICC Publications.

International Code Council, 500 New Jersey Avenue, NW, 6th Floor, Washington, DC 20001-2070.

ICC A117.1, *Standard for Accessible and Usable Buildings and Facilities*, 2017.

International Building Code, 2024.

F.1.2.20 IEC Publications.

International Electrotechnical Commission, 3, rue de Varembé, P.O. Box 131, CH-1211 Geneva 20, Switzerland.

IEC 61340-4-4, *Electrostatics—Part 4-4: Standard Test Methods for Specific Applications — Electrostatic Classification of Flexible Intermediate Bulk Containers (FIBC)*, 2018.

F.1.2.21 IEEE Publications.

IEEE, 3 Park Avenue, 17th Floor, New York, NY 10016-5997.

IEEE 1635/ASHRAE 21, *Guide to Battery Room Ventilation and Thermal Management*, 2012.

F.1.2.22 IMO Publications.

International Maritime Organization, 4 Albert Embankment, London SE1 7SR, United Kingdom, publications-sales@imo.org.

International Maritime Dangerous Goods Code, 2014 2020.

F.1.2.23 ISO Publications.

International Organization for Standardization, ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland.

ISO 8115, *Cotton Bales — Dimensions and Density*, 1986.

ISO 13732-1, *Ergonomics of the Thermal Environment — Methods for the Assessment of Human Responses to Contact with Surfaces, Part 1: Hot Surfaces*, 2006.

F.1.2.24 NACE Publications.

NACE International, 15835 Park Ten Place, Houston, TX 77084-4906.

NACE SP0169-2013 , *Control of External Corrosion of Underground or Submerged Metallic Piping Systems*, 2013.

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Petroleum Equipment Institute, 6931 S. 66th E. Ave., Suite 200, Tulsa, OK 74101-2380.

PEI/RP100, *Recommended Practices for Installation of Underground Liquid Storage Systems*, 2017 2020 .

PEI/RP200, *Recommended Practices for Installation of Aboveground Storage Systems for Motor Vehicle Fueling*, 2013 2019 .

PEI/RP500, *Recommended Practices for Inspection and Maintenance of Motor Fuel Dispensing Equipment*, 2014 2019 .

PEI/RP600, *Recommended Practices for Overfill Prevention for Shop-Fabricated Aboveground Tanks*, 2012 2018 .

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Scott Specialty Gases, 6141 Easton Road, Box 310, Plumsteadville, PA 18949.

Design and Safety Handbook, 2006.

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Society of Fire Protection Engineers, 9711 Washingtonian Blvd, Suite 380, Gaithersburg, MD 20878.

SFPE Standard S.01, *Calculating Fire Exposures to Structures*, 2011.

SFPE Standard S.02, *Calculation Methods to Predict the Thermal Performance of Structural and Fire Resistive Assemblies*, 2015.

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SFPE Guide to Human Behavior in Fire, 2018.

SFPE Handbook of Fire Protection Engineering, 5th edition, 2016.

F.1.2.28 STI/SPFA Publications.

Steel Tank Institute/Steel Plate Fabricators Association, 944 Donata Court, Lake Zurich, IL 60047.

STI R 931, *Double Wall AST Installation and Testing Instructions*, 2011.

STI RP R011, *Recommended Practice for Anchoring of Steel Underground Storage Tanks*, 2006 2010 .

Keeping Water Out of Your Storage System, 2006.

F.1.2.29 TC Publications.

Transport Canada, 330 Sparks Street, Ottawa, ON K1A 0N5, Canada. webfeedback@tc.gc.ca

Transportation of Dangerous Goods Regulations.

F.1.2.30 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

Commodity Hazard Comparison of Expanded Plastic in Portable Bins and Racking, Underwriters Laboratories, Project 99NK29106, NC4004, September 8, 2000.

Technical Report of Fire Testing of Automotive Parts in Portable Storage Racking, Underwriters Laboratories, Project 99NK29106, NC4004, January 5, 2001.

UL 9, ~~Safety~~ *Fire Tests of Window Assemblies*, 2009, revised 2020 .

UL 10B, ~~Safety~~ *Fire Tests of Door Assemblies*, 2008, revised 2020 .

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Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
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Submitter Information Verification

Committee: FCC-FUN

Submittal Date: Tue Mar 22 09:06:24 EDT 2022

Committee Statement

Committee Statement:	Updating all reference documents to the most current edition as required by the NFPA Manual of Style.
	Response to PC-5: All changes were incorporated with exception of where a more current edition was released after the PC was submitted, the later edition was used.
Response Message:	SR-23-NFPA 1-2022

[Public Comment No. 5-NFPA 1-2021 \[Section No. F.1.2.8\]](#)



Second Revision No. 24-NFPA 1-2022 [Section No. F.3]

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Supplemental Information

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Committee Statement

Committee Statement: Updating all extract documents to the most current edition as outlined in the NFPA Extract Policy. Updates within the body of the text are updated via separate first revision or second revision.

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