

Amendments to the 2018 International Fire Code with Phoenix Amendments

Effective July 3, 2021 as adopted by Ordinance Number G-6854

~~Strikethrough~~ represents code text deletion and underline represents text change/addition



508.1.6.2 Fire Department Communications System. Two way hard wired communication system is required in high rise buildings

510.4.1.2 Minimum signal strength out of the building. The minimum outbound signal strength shall be sufficient to provide usable voice communications throughout the coverage area as specified by the fire code official. The outbound signal level shall be sufficient to provide not less than a DAQ of 3.0 or an equivalent SINR applicable to the technology for either analog or digital signals. A Bit Error Rate (BER) of 2.6% is equivalent to a DAQ 3.0 and is acceptable to meet this equivalency.

907.2.12.2 Fire department communication system.

Two way hard wired fire department communication system is required in high-rise buildings. In other buildings ~~W~~ where a wired communication system is approved in lieu of an emergency responder radio coverage system in accordance with Section 510, the wired fire department communication system shall be designed and installed in accordance with NFPA 72 and shall operate between a fire command center complying with Section 508, elevators, elevator lobbies, emergency and standby power rooms, fire pump rooms, areas of refuge and inside interior exit stairways. The fire department communication device shall be provided at each floor level within the interior exit stairway.

914.3.5 Emergency voice/alarm communication system. An emergency voice/alarm communication system shall be provided in accordance with Section 907.6.2.2. Two way hard wired fire department communication system is required in high-rise buildings.

~~**2808.7.3 Conveyor Systems.** Automatic sprinkler protection shall be provided in conveyor tunnels and combustible enclosures that pass under a pile. Combustible conveyor systems and enclosed conveyor systems shall be equipped with an approved automatic sprinkler system~~

~~**2808.7.4.3 Fire Hydrants.** The fire code official may increase the distance required to a fire hydrant as set forth in Section 507 where the conditions of this section are complied with. The omitting of an on-site hydrant or increased overall distance to the nearest hydrants will be evaluated with the application for permit.~~

~~**2808.9 Material-handling equipment.** Approved material handling equipment shall be available for moving wood chips, hogged material, wood fines and raw product during fire-fighting operations.~~ by contract to aid in the event of emergency for moving wood chips and hogged material. Equipment available shall include:

1. Equipment to move stored material during a fire
2. Water trucks
3. Water pumps if using pond for any piece of water source

~~**2808.6.1 Internal temperature.** If any location in a pile is found to have an internal temperature of 160°F (71° C) immediate action must be taken to reduce the temperature. If any location in a pile is found to have an internal temperature of 180° F (82°C) or greater, the following procedures must immediately be taken:~~

1. The area with the high temperature shall be dug out of the main pile. This overheated material shall be pushed out in the designated push out area. The material shall be no greater than 3ft. in depth in the push out area.
2. Water shall be stationed closely to the affected area, prior to digging out the hotspot, to immediately douse any flare ups that may occur when air is added to overheated area.
3. Continual temperature probing and removal of material greater than 180° F (82° C) shall be conducted until all overheated material is separated into the push out area.

~~**2808.7.1 Delivery and tipping area.** Not more than two designated tipping areas may be provided at a single facility and~~ Delivery and tipping areas shall be shown on the approved facility site plan. Tipping areas shall comply with the following:

1. Size. Tipping areas shall not exceed a maximum area of 50 feet by 15 240 mm) by 50 feet (15 240 mm).
2. Height. Material within a tipping area shall not exceed 5 feet (1524 mm) in height at any time.
3. Separation. Tipping areas shall be separated from all piles and other tipping areas by a fire access lane that is not less than 20 feet (6096 mm) wide.
4. Water system. A water system shall be available to wet down/ cool the raw product in case of fire within the tipping area.
5. Duration. Raw product shall be kept in tipping area long enough to ensure no load was delivered that is already over heated. Raw product shall be less than 160° F before mixing with main pile.

Amendments to the 2018 International Fire Code with Phoenix Amendments

Effective July 3, 2021 as adopted by Ordinance Number G-6854



~~Strikethrough~~ represents code text deletion and underline represents text change/addition

TIPPING AREA. An area within an ~~solid waste management facility or recycling~~ agro-industrial, solid biomass facility for vehicles to unload new material, solid wastes or recyclables.

1204.2.1 Solar photovoltaic systems for Group R-3 buildings. Solar photovoltaic systems for Group R-3 buildings shall comply with Sections 1204.2.1.1 through 1204.2.1.3.

~~**1204.2.1.1 Roof access points.** Roof access points shall be located in areas that do not require the placement of ground ladders over openings such as windows or doors and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires, or signs.~~

1204.2.1.1 Pathways to ridge. Not fewer than two 36 inch- wide (914 mm) pathways on separate roof planes, from lowest roof edge to ridge, shall be provided on all buildings. Not fewer than one pathway shall be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, not fewer than one 36-inch-wide (914 mm) pathway from lowest roof edge to ridge shall be provided on the same roof plane as the photovoltaic array, on an adjacent roof plane or straddling the same and adjacent roof planes.

~~**1204.2.1.2 Residential systems for one- and two- family dwellings.** Access to residential systems for one- and two- family dwellings shall be provided in accordance with Sections 1204.2.1.3 through 1204.2.1.6.~~

1204.2.1.2 Setbacks at ridge. For photovoltaic arrays occupying 33 percent or less of the plan view total roof area, a setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than 33 percent of the plan view total roof area, a setback of not less than 36 inches (457 mm) wide is required on both sides of a horizontal ridge.

~~**1204.2.1.3 Residential buildings with hip roof layouts.** Panels/modules installed on residential buildings with hip roof layouts shall be located in a manner that provides a 3-foot wide (914 mm) clear access pathway from the eave to the ridge on each roof slope where panels/modules are located. The access pathway shall be located at a structurally strong location on the building capable of supporting the live load of fire fighters accessing the roof.~~

1204.2.1.3 Alternative setbacks at ridge. Where an automatic sprinkler system is installed within the dwelling in accordance with Section 903.3.1.3, setbacks at the ridge shall conform to one of the following:

1. For photovoltaic arrays occupying 66 percent or less of the plan view total roof area, a setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal ridge.

2. For photovoltaic arrays occupying more than 66 percent of the plan view total roof area, a setback of not less than 36 inches (914 mm) wide is required on both sides of a horizontal ridge.

~~**1204.2.1.4 Residential buildings with a single ridge.** Panels/modules installed on residential buildings with a single ridge shall be located in a manner that provides two, 3-foot wide (914 mm) access pathways from the eave to the ridge on each roof slope where panels/modules are located.~~

~~**1204.2.1.5 Residential buildings with roof hips and valleys.** Panels/modules installed on residential buildings with roof hips and valleys shall be located no closer than 18 inches (457 mm) to a hip or a valley where panels/modules are to be placed on both sides of a hip or valley. Where panels are to be located on only one side of a hip or valley that is of equal length, the panels shall be permitted to be placed directly adjacent to the hip or valley.~~

~~**1204.2.1.6 Residential building smoke ventilation.** Panels/modules installed on residential buildings shall be located no higher than 3 feet below the ridge in order to allow for fire department smoke ventilation operations.~~

Chapter 80

NFPA 2 Hydrogen Technologies Code ~~2016~~ 2020

NFPA 12 Standard on Carbon Dioxide Extinguishing Systems ~~2015~~ 2018

NFPA 13 Standard for the Installation of Sprinkler Systems ~~2016~~ 2019

NFPA 13D Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes ~~2016~~ 2019

**Amendments to the 2018 International Fire Code with Phoenix Amendments
Effective July 3, 2021 as adopted by Ordinance Number G-6854**



~~Strikethrough~~ represents code text deletion and underline represents text change/addition

NFPA 13R ~~Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies 2016~~ 2019

NFPA 14 ~~Standard for the Installation of Standpipe and Hose Systems 2014~~ 2019

NFPA 16 ~~Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems 2015~~ 2019

NFPA 24 ~~Standard for the Installation of Private Fire Service Mains and Their Appurtenances 2016~~ 2019

NFPA 30B ~~Code for the Manufacture and Storage of Aerosol Products 2015~~ 2019

NFPA 33 ~~Standard for Spray Application Using Flammable or Combustible Materials 2016~~ 2018

NFPA 34 ~~Standard for Dipping, Coating and Printing Processes Using Flammable or Combustible Liquids 2015~~ 2018

NFPA 45 ~~Standard on Fire Protection for Laboratories Using Chemicals 2015~~ 2019

NFPA 52 ~~Vehicular Natural Gas Fuel Systems Code 2016~~ 2019

NFPA 55 ~~Standard for storage, use and handling of compressed gases and cryogenic Fluids in portable and stationary containers, cylinders and tanks 2016~~ 2020

NFPA 61 ~~Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities 2017~~ 2020

NFPA 69 ~~Standard on Explosion Prevention Systems 2014~~ 2019

NFPA 72 ~~National Fire Alarm and Signaling Code 2016~~ 2019

NFPA 86 ~~Standard for Ovens and Furnaces 2015~~ 2019

NFPA 92 ~~Standard for Smoke Control Systems 2015~~ 2018

NFPA 110 ~~Standard for Emergency and Standby Power Systems 2016~~ 2019

NFPA 111 ~~Standard for Stored Electrical Energy Emergency and Standby Power Systems 2016~~ 2019

NFPA 160 ~~Standard for the Use of Flame Effects Before an Audience 2016~~ 2021

NFPA 241 ~~Standard for Safeguarding Construction, Alteration, and Demolition Operations 2013~~ 2019

NFPA 484 ~~Standard for Combustible Metals 2015~~ 2019

NFPA 652 ~~The Fundamentals of Combustible Dust 2016~~ 2019

NFPA 654 ~~Standard for Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids 2017~~ 2020

NFPA 664 ~~Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities 2017~~ 2020

NFPA 853 ~~Installation of Stationary Fuel Cell Power Systems 2015~~ 2020

NFPA 914 ~~Code for Fire Protection of Historic Structures 2015~~ 2019

NFPA 1126 ~~Standard for the Use of Pyrotechnics Before a Proximate Audience 2016~~ 2021

NFPA 2001 ~~Standard on Clean Agent Fire Extinguishing Systems 2015~~ 2018