

CAFMA 2018 International Fire Code Amendments

CHAPTER 1 ADMINISTRATION

Section 101.1 Title is amended as follows:

These regulations shall be known as the Fire Code of *Central Arizona Fire and Medical Authority*, hereinafter referred to as “this code”.

Section 105.6.2 Amusement building is amended as follows:

Amusement building *and events*. An operational permit is required for any amusement building *or event*.

Section 105.6.23 Hot work operations is amended as follows:

4. Hot work, *including grinding*, conducted within a wildfire risk area *during burn restrictions*.

Section 109.2 Limitations of authority is amended by adding:

Rulings by the Board of Appeals shall be binding upon the Fire Authority and the appellants. All rulings made by the Board of Appeals shall be only for the appellant and shall not be intended as a general change in this Code.

Section 110.4 Violation penalties is amended as follows:

Persons who violate a provision of this code or fail to comply with any of the requirements thereof, or who shall erect, install, alter, repair or perform work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate obtained under provisions of this Code, shall be *found in violation and subject to penalties designated by the jurisdiction having authority.*

Section 112.4 Failure to comply is amended as follows:

Any person who continues any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, *shall be found in violation and subject to penalties designated by the jurisdiction having authority.*

CHAPTER 5
FIRE SERVICE FEATURES

Section 503.1.1 is amended by changing exception 1.3 to read:
Group R-3 and Group U occupancies

Section 505.1 Address identification is amended as follows:

New and existing buildings shall have approved address numbers, building numbers or building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 6 inches high with a minimum stroke width of *0.5 inch*. *Address numbers should be proportionate to building size and larger numbers may be required by the fire code official to facilitate emergency response.*

Section 507.1 Required water supply. Is amended by adding the following:

In areas where a municipal or private water supply is not available *NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting* may be utilized to calculate required fire flows.

CHAPTER 9
FIRE PROTECTION SYSTEMS

Section 901.2 Construction documents is amended by adding the following:
Automatic sprinkler system plans shall be submitted bearing a review certification and signature of a minimum level III NICET Certified Engineering Technician or Engineer's stamp. Fire sprinkler plans for high-piled combustible storage occupancies shall require a registered fire protection engineer stamp. Fire alarm system plans shall be submitted bearing a review certification and signature of a minimum level III NICET Technician or Arizona registrant.

Section 901.6.3 Records is amended to read as follows:
Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained and reports of system deficiencies shall be forwarded to the authority having jurisdiction

Section 903.2.1.1 Group A-1 is amended by changing item 1 to read as follows:

1. The fire area is 5,000 square feet or greater.

Section 903.2.1.3 Group A-3 is amended by changing item 1 to read as follows:

1. The fire area is 5,000 square feet or greater.

Section 903.2.1.4 Group A-4 is amended by changing item 1 to read as follows:

1. The fire area is 5,000 square feet or greater.

Section 903.2.3 Group E is amended by changing item 1 to read as follows:

1. The fire area is 5,000 square feet or greater. (Group E occupancies without a fire sprinkler system shall have a fire alarm system installed. See 907.2.3)

Section 903.2.4 Group F-1 is amended as follows:

Section 903.2.4 Group F-1 An automatic sprinkler system shall be provided throughout all buildings containing Group F-1 occupancies where one of the following conditions exists:

1. The fire area is *5,000 square feet or greater*.
2. The fire area is located more than *two stories above grade*.
3. The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 5,000 square feet.
4. A Group F-1 occupancy used for the manufacture of upholstered furniture or mattresses exceeding 2,500 square feet.

Section 903.2.6 Group I is amended to read as follows:

- 2 An automatic sprinkler system is not required where day care facilities are at the level of exit discharge, where every room where care is provided has a least one exterior exit door and *where the fire area is less than 5,000 square feet*.

Section 903.2.7 Group M is amended by changing items 1-3 to read as follows:

1. The Group M fire area is *5,000 square feet or greater*.
2. The Group M fire area is located more than *two stories above grade*.
3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 5,000 square feet.

Section 903.2.7.1 High-piled storage is amended by adding:

The automatic fire sprinkler system shall be designed by a fire protection engineer.

Section 903.2.8 Group R is amended by removing exception 2 to read as follows:

Exception 1. Group R-3 less than 5,000 square feet unless more than two stories above grade. The calculated area shall include all livable and unfinished space, the area of any attached garage, and concealed or accessible spaces intended for storage use and/or future living space. All attached roofs and overhangs greater than 4 feet in width are included in the calculated area.

Separation of buildings into fire areas as defined in 901.4.3 shall not be allowable in Group R-3 occupancies.

Section 903.2.9 Group S-1 is amended by changing Group S-1 items 1, 2 and 3 to read as follows:

Section 903.2.9 Group S-1

1. The Group S-1 fire area is 5,000 square feet or greater.
2. The Group S-1 fire area is located more than *two* stories above grade.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 5,000 square feet.

Section 903.2.9.1 Repair Garages is amended by changing items 1 and 2 to read as follows:

1. Buildings having two or more stories above grade plane, including basements, with a fire area containing a repair garage exceeding 5,000 square feet.
2. Buildings no more than one story above grade plane, with a fire area containing a repair garage exceeding 5,000 square feet.

Section 903.2.10 Group S-2 enclosed parking garages is amended by changing item 1 to read as follows:

1. Where the fire area of the enclosed parking garage exceeds 5,000 square feet.

Section 903.2.13 Group B is an added section:

An automatic sprinkler system shall be provided throughout all buildings containing a Group B occupancy where one of the following conditions exists:

1. Where a Group B fire area is 5,000 square feet or greater.
2. Where a Group B fire area is located more than two stories above grade.

Section 903.3.1.3.1 Garages is amended by adding the following section:
Sprinklers are required in all attached garages and workshops.

Section 903.3.5 Water supplies is hereby amended by adding:
The water data for hydraulic calculations shall be based upon 85 percent of the available water supply as determined by flow test information.

Section 907.2.3 Group E is amended by changing Exception 1 to read:

1. A manual fire alarm system is not required in Group E occupancies with an occupant load of 10 or fewer persons receiving care or instruction.

Section 907.2.3 Group E is amended by adding:

5. All classrooms in a Group E with a fire alarm system and no fire sprinkler system shall have an exterior exit from each classroom.

CHAPTER 11
CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

Section 1103.5 Sprinkler systems is amended by adding the following subsections:

Section 1103.5.5 Building Addition. A sprinkler system is required throughout the building when any addition increases the total fire area to 5,000 square feet or greater.

Exception: R-3 Occupancies.

Section 1103.5.6 Change of Use. A sprinkler system is required throughout the building when any change of use or occupancy occurs to a portion of the building to a more hazardous occupancy or as determined by the Fire Code Official.

Section 1103.5.7 Group A-1, A-3, and A-4 Addition. A sprinkler system is required throughout the building when any addition to existing assembly occupancies increases the occupant load to more than 300.

Section 1103.5.6 Group A-2 Addition. A sprinkler system is required throughout the building when any addition to existing assembly occupancies increases the occupant load to more than 100.

Section 1103.5. 8 Group E. A sprinkler system is required throughout the building when any addition to a Group E occupancy increases the total fire area to 5,000 square feet or greater. (Group E occupancies without a fire sprinkler system shall have a fire alarm system installed. See 907.2.3)

Section 1103.5.10 Group R-4 Care Facilities. A sprinkler system is required throughout the dwelling unit where six or more persons receive care.

Section 1103.5.11 Vacant Buildings. A sprinkler system is required throughout the building when any A, E, or I occupancy that has been vacant for more than 18 months requests to resume as the same or equally hazardous occupancy classification.

Section 1103.5. 12 Fire Wall Breach. A sprinkler system is required throughout the building when any modification or alteration to an existing building, with a total floor area of 5,000 square feet or greater, breaches or removes a required fire rated wall assembly.

Section 1103.7 Fire Alarm Systems is amended by adding the following:

Section 1103.7.1 Group E.

Exceptions:

2. A manual fire alarm system is not required in Group E occupancies with an occupant load of 10 or fewer persons receiving care or instruction.

Section 1103.7.1.1 Group E is amended by adding:

All classrooms in a Group E with a fire alarm system and no fire sprinkler system shall have an exterior exit from each classroom.

Section 1103.7.8 Sprinkled Building Fire Alarm Requirement. An approved fire alarm system shall be installed in existing buildings when a fire sprinkler system is provided.

CHAPTER 56
EXPLOSIVES AND FIREWORKS

Section 5601.2.4 Financial Responsibility is amended as follows:

Before a permit is issued, as required by Section 5601.2, the applicant shall file with the jurisdiction a corporate surety bond in the principal sum of \$1,000,000 (*one million dollars*) or a public liability insurance policy for the same amount, for the purpose of the payment of all damages to persons or property which arise from, or are caused by, the conduct of any act authorized by the permit upon which any judicial judgment results. *The fire code official is authorized to specify a greater or lesser amount when, in his or her opinion, conditions at the location of use indicate a greater or lesser amount is required. Government entities shall be exempt from this bond requirement.*

Section 5601.2.4.1 Blasting is amended as follows:

Before approval to do blasting is issued, the applicant for approval shall file a bond or submit a certificate of insurance in the amount of \$1,000,000 (*one million dollars*) in each case to indemnify the jurisdiction against any and all damages arising from permitted blasting.

Section 5601.2.4.2 Fireworks Display is amended as follows:

Before approval for a display is issued, the permit holder shall furnish a bond or certificate of insurance in the amount of \$1,000,000 (*one million dollars*) per occurrence for the payment of all potential damages to a person or persons or to property by reason of the permitted display, and arising from any acts of the permit holder, the agent, employees or subcontractors to indemnify the jurisdiction against any and all damages arising from permitted fireworks displays.

Chapter 80

Referenced Standards

Part VI-Referenced Standards is amended to add the following:

Add the document known as Central Arizona Fire and Medical Authority "Fire Protection Standards" for Builders, Developers, Engineers & Architects.

APPENDIX A

Section A101.2 Membership is amended as follows:

The membership of the board shall consist of five voting members that have the qualifications established by this section and *reside within the boundaries of the Central Arizona Fire and Medical Authority*. In the event that it is not practical to find members as required by this section, the Fire Code official reserves the right to relax the qualifications as to create a valid professional board to serve this jurisdiction. *Prospective members shall apply to the Fire Marshal of the jurisdiction, subject to confirmation by a majority vote of the Central Arizona Fire and Medical Authority Fire Board*. Members shall serve without remuneration or compensation, and shall be removed from office prior to the end of their appointed terms only for cause.

Section A101.3 Terms of Office is deleted.

Section A101.3.1 Initial Appointments is deleted.

Section A101.5 Secretary of Board is amended as follows:

The fire code official or his designee shall act as Secretary of the Board and shall keep a detailed record of all its proceedings, which shall set forth the reasons for its decisions, the vote of each member, the absence of a member, and any failure of a member to vote.

APPENDIX B

Table B105.1 (2) REFERENCE TABLE is amended by adding Footnote c as follows:

Footnote c: In special circumstances, where the municipal or rural water supply will not provide the required 1,500 gpm, the fire code official may accept a lesser amount. This amount shall never be less than 1,000 gpm.

APPENDIX D

Section D103.2 Grade is amended as follows:

Fire apparatus access roads shall not exceed 12 percent grade.

The exception is deleted and replaced as follows:

Exception: *The fire code official may permit the access road grade to increase, but shall not exceed 15 percent if fire sprinkler protection is installed.*

Section D103.3 Turning Radius is amended as follows:

The minimum turning radius shall be 28' (*twenty eight feet*) inside and 50' (*fifty feet*) outside diameter for all fire department access roads and parking lots.

Table D103.4 is amended to read as follows:

In lieu of the required 96-foot diameter, a cul-de-sac with an 82-foot diameter drivable surface with no parking signs posted throughout may be allowed if approved by the fire code official.

Appendices A through N are adopted by CAFMA.