



Amendments to

International Fire Code 2024 Edition

The following provisions of the International Fire Code, 2024 Edition, as published by the International Code Council, Inc. are hereby revised as follows:

## CHAPTER 1

### SCOPE AND ADMINISTRATION

#### GENERAL PROVISIONS

##### Section 101.1

Revise as follows:

Section 101.1 Title.

Insert: [NAME OF JURISDICTION] as, **“The University of Arizona.”**

#### ADMINISTRATION PROVISIONS

[A] Section 104.10.1 Assistance from other agencies.

Revise as follows:

Change, **“Police and other enforcement agencies”**

To read, **“The University Police Department, the responding fire department and other enforcement agencies”**.

[A] SECTION 112 MEANS OF APPEALS.

Revise as follows:

Delete this section, and all subsequent subsections, in their entirety, and replace with:

**“Section 109.1 Appeal to Arizona State Fire Marshal. The Arizona State Fire Marshal shall hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code.”**



[A] Section 113.4 Violation Penalties.

Revise as follows:

Insert: [SPECIFY OFFENSE] as, “civil offense”.

Insert: [AMOUNT] as, “not more than one thousand”.

Delete the sentence “or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment”.

At the end of the paragraph add, “Per ARS§ 37-1391”.

[A] Section 113.5 Failure to comply.

Is hereby DELETED (in its entirety) and REPLACED with:

“Section 112.4 Failure to comply. Any person, who shall continue 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 guilty of violating ARS§ 37-1391.”

## CHAPTER 2

### DEFINITIONS

#### Section 202 Definitions

Add the following definitions:

**“NUISANCE FIRE ALARM.** The activation of any fire alarm system caused by mechanical failure, malfunction, improper installation, lack of proper maintenance or for any other undetermined cause of activation resulting in a repeated response by the fire department.

**PERSON.** A natural person, an individual, heirs, executors, administrators, or assigns, and also includes a firm, partnership, or corporation, its or their successors or assigns, or the agent of any of the aforesaid.

**QUALIFIED PERSON.** One who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated to the AHJ his/her ability to solve or resolve problems relating to the subject matter, the work, or the project.”



## CHAPTER 3

### GENERAL REQUIREMENTS

Section 307.3 Extinguishment authority.

Revise as follows: After, “fire code official,” add “**the university police chief or responding fire department fire chief.**”

Section 311.5. Placards.

Revise as follows: Add, “**When determined by the fire code official,**” to the beginning of the section.

## CHAPTER 4

### EMERGENCY PLANNING AND PREPAREDNESS

Section 403.12.1.2 Duties.

Revise as follows:

Add to duties:

**“4. Fire watch personnel shall not be required or permitted, while on duty, to perform any duties other than those specified by the fire code official.”**

## CHAPTER 5

### FIRE SERVICE FEATURES

Section 503.2.1 Dimensions.

Revise as follows: Change, “an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).” To read, “**an unobstructed vertical clearance of not less than 15 feet (4572 mm).**”

Section 503.2.3 Surface.

Revise as follows:



Change, “Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.” To read, “Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus, per Section D102.1, and shall be surfaced so as to provide all-weather driving capabilities”.

### Section 503.3 Marking.

Delete this section in its entirety and replace with:

“Every fire apparatus access roadway required under the authority of this section shall be posted with signs installed at points not more than one hundred (100) feet apart along the length of the required fire apparatus access roadway. The bottom of every such sign shall not be less than seven (7) feet or more than ten (10) feet from the ground surface level. Signs shall be posted to face the direction of travel. Construction, installation, and maintenance of the signs shall be done at no expense to the City. Materials and locations of each sign shall be indicated in the plans submitted to the fire department. Fire access signs shall conform to the Manual on Uniform Traffic Control Devices. The required sign shall be the international NO PARKING sign with a standard sign size (width and height) of 12 x 18 inches (300 x 450 mm), on a white reflective background. The international NO PARKING symbol shall be a black P, six inches high. Underneath the NO PARKING symbol, in one-and-five-eighths inch high and one-quarter inch stroke, in red lettering it shall read: FIRE ACCESS TOW-AWAY.



Only fire apparatus access roadways required under the authority of this section or as approved by the chief may be posted or identified with the approved sign shown above. Unauthorized signs shall be removed.

#### Section 503.6 Security gates.

Revise as follows:

Add, "Electronic operated gates shall have an approved Knox (brand) key switch installed." after the second sentence.

### SECTION 505 - PREMISES IDENTIFICATION

#### Section 505.1 Address identification.

Revise as follows:

Delete this section in its entirety and replace with:

"New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response.

#### Commercial

- Building < 50 feet from the curb require 12" numbers displayed on the building
- Buildings > 50 feet from the curb require 15" numbers displayed on the building
- Tenant space numbers shall be 4" (placed on or above primary entrance)
- Address range must be displayed in 12" numbers on the building



### Dormitories, fraternities and sororities

Entrance numbers shall be 12"

Building numbers shall be 15"

Dormitory, fraternity and sorority numbers ranges displayed below building numbers shall be 8"

Dormitory, fraternity and sorority numbers ranges displayed on signage near the building shall be 2"

Dormitory, fraternity and sorority numbers shall be 4" on outside entrances and 1" for interior hallways entrances.

Number ranges are required on buildings or signage. (continued)

### Miscellaneous Information

The complete address shall be displayed on all corner buildings when required by the fire code official.

Addresses shall be displayed and visible from both directions of approaching vehicles

Numbers and letters shall be made of durable material. (Paint is not acceptable)

Numbers and letters shall be of colors contrasting with the background

Numbers and letters shall have a min. proportion ratio of 6:1 (height to width)

Numbers shall not be spelled out

Address numbers shall be maintained

\*Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole, or other sign or means shall be used to identify the structure."

### Section 507.3 Fire flow.

Revise as follows:

Change, "Fire flow requirements for buildings or portions of buildings

and facilities shall be determined by an approved method." To read, "Fire flow

requirements for buildings or portions of buildings and facilities shall be in accordance

with Appendix B".



Section 507.5.1.1 Hydrant for standpipe systems.

Revise as follows:

Delete this section (in its entirety) and replace with the following:

“Section 507.5.1.1 Hydrant for standpipe systems. Buildings equipped with a standpipe system installed in accordance with Section 905 or where the automatic fire sprinkler system is equipped with a fire department connection, shall have a fire hydrant within 100 feet (30 m) of the fire department connections.

Exception: The distance shall be permitted to exceed 100 feet (30 m) where approved by the fire code official.”

Add the following section:

“Section 507.5.7 Reflective pavement markers. Fire hydrants shall be identified by the installation of approved blue reflective pavement markers.”

## CHAPTER 9

### FIRE PROTECTION AND LIFE SAFETY SYSTEMS

Section 901.2 Construction documents.

Revise as follows:

Add the word: “electronically”, after “submitted”.

Section 901.5.1 Occupancy.

Add the following subsection:

“901.5.1.1 Stocking and Loading. When required by the fire code official, no portion of a building or structure shall be stocked or loaded with combustible fixtures or furnishings, or regular stock until the automatic fire sprinkler system (if required) has been tested, approved, placed into service and a temporary certificate of occupancy issued. Where a fire alarm system is required, it shall be tested, approved, placed into service and a temporary certificate of occupancy issued, or an approved fire watch shall be provided.”



Section 901.7 Systems Out of Service.

Revise as follows:

Add the following sentence to the end of the second paragraph: “Only the fire code official is authorized to initiate or approve fire watch personnel, as well as to release the fire watch.”

[F]Section 903.2 Where required.

Revise as follows:

Change, “Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12.”

To read, “and in all new construction and major renovations, alterations and additions, as defined in the University of Arizona Construction and Renovation Permitting Procedure (adopted: July 2011), unless approved by the fire marshal. In all new construction, major and minor renovations, alterations and additions, where the fire code official has determined the public safety of an existing or proposed activity, building or structure, or for the safety of the occupants thereof, that are not specifically provided for by this code, shall be determined by the fire code official in accordance with section 102.9 of the International Fire Code.”

[F] Section 903.3.1.3 NFPA 13D sprinkler system.

Revise as follows:

Add the following at the end of the paragraph:

“Automatic sprinkler systems shall provide coverage for attached garages and under the horizontal projections of any part of the roof enclosed on 3 sides and greater than 4 feet in depth.”

Add the following section:

“Section 903.4.4. Provide electronic pressure monitoring of the supply and system sides of the fire sprinkler system using 24VDC ¼” NPT 4-20ma transducers that provide a range of 0-300psi with a burst rating of at least 400psi. They shall be installed in the same location as the system and supply pressure gauges. Each pressure transducer shall be monitored.”



[F] Section 904.12.2 System interconnection.

Revise as follows:

Add the following to the end of the first sentence:

"...and to all electrical receptacles located within the perimeter of the protected exhaust hood."

Section 907.2 Where required—new buildings and structures.

Add the following sentence to the end of the first paragraph:

"Class A fire alarm systems shall be installed in all new buildings, structures, and renovation projects where the scope of demolition and construction covers at least any single floor of a building. Concurrent small renovations on multiple floors of a building where the cumulative scope of work in square feet is greater than the largest single floor of the building shall also install a Class A fire alarm system."

## CHAPTER 10

### MEANS OF EGRESS

Section 1008.3.3. Rooms and spaces.

Revise as follows:

Add,

"6. Classrooms.

7. Laboratories."

## CHAPTER 11

### CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

Section 1103.1 Required construction.

Revise as follows:

Add the following paragraph:

"A modification that increases the building floor area protected by a fire protection system



by fifty percent, or a fire alarm control panel replacement, shall be considered a new installation, and the fire alarm system shall be brought to the current performance and installation standards in accordance with 907.5.”

## SECTION 1103 FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS

Revise as follows:

Add the following sub-sections:

“Section 1103.11 ERCES marking. Buildings equipped with Emergency Responder Communications Enhancement Systems shall have approved signage at the FACP stating THIS BUILDING EQUIPPED WITH A RADIO REPEATER SYSTEM.

Section 1103.12 Standpipes. All high-rise standpipe connections require a durable indicator tag indicating if a pressure reducing valve (PRV) has been installed. If there is a PRV, the tag shall also indicate whether the valve is a fixed or adjustable type.”

## CHAPTER 11 CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS.

### CHAPTER 31

### TENTS, TEMPORARY SPECIAL EVENT STRUCTURES AND OTHER MEMBRANE STRUCTURES

Section 3103.7 Access, location, and parking.

Revise as follows:

Add the following sentence: “Requirements of this section may be adjusted when approved by the fire code official.”

Section 3103.9.1 Door operation.

Revise as follows:

Add the following subsection:

“3103.9.1.1 Panic hardware. Exit doors shall swing in the direction of exit travel and shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware. To



avoid hazardous air and pressure loss in air-supported membrane structures, such doors shall be automatic closing against operating pressures. Opening force at the door edge shall not exceed 15 pounds (66 N).”

Section 3106.2 General.

Revise as follows:

Add the following exception: “Exception: When required by the fire code official additional anchoring shall be provided.”

Section 3108.14.2.3 Closure.

Revise as follows:

Delete the words “locked and”

## CHAPTER 53

### COMPRESSED GASSES

Section 5307.3.2 Gas detection system.

Revise as follows:

Add the following subsections:

“Section 5307.3.2.1 Monitoring. Where CO<sub>2</sub> gas detection systems are installed in buildings equipped with a building fire alarm or a dedicated function fire alarm system, the high alarm shall generate a general alarm and signals sent to the central station.

Section 5307.3.2.2 Notification. CO<sub>2</sub> notification devices, audible and visible, shall be provided at the following locations:

1. Near every point of use.
2. In the area or room where the asphyxiant gas cylinders are located, in use.
3. In the common area where the public gathers.
4. At the entrance to the room with the required detection.



5. So that it is clear to the responders upon approach to the hazard that asphyxiant gas is present.
6. As required by the fire code official.

Section 5307.3.2.3 Notification devices. Notification devices shall comply with the following:

1. The notification devices shall be identified and labeled for the gas being detected.
2. Use of the building fire alarm notification devices for evacuation is acceptable, provided that the asphyxiant gas detection has visually and audibly clear indicators in the hazard area upon both the warning level and alarm level of the gas.”

## CHAPTER 57

### FLAMMABLE AND COMBUSTIBLE LIQUIDS

Section 5704.3.3.3 Clear means of egress.

Revise as follows:

Delete the word “near” and replace with: “within 10 feet of an exit door”.

Adopt Appendices:

Each of the following appendices in their entirety:

APPENDIX B – FIRE-FLOW REQUIREMENTS FOR BUILDINGS

APPENDIX C – FIRE HYDRANT LOCATIONS AND DISTRIBUTION

APPENDIX D – FIRE APPARATUS ACCESS ROADS

Section D103.6.1 Roads 20 to 26 feet in width.

Revise as follows:

Delete in its entirety and replace with:

“Section D103.6.1 Roads 20 to 28 feet in width. Fire apparatus access roads 20 to 28 feet in



width shall be posted on both sides as a fire lane.”

Section D103.6.2 Roads more than 26 feet in width.

Revise as follows:

Delete in its entirety and replace with:

“Section D103.6.2 Roads greater than 28 and up to 36 feet in width. Fire apparatus access roads greater than 28 and up to 36 feet wide shall be posted on one side of the road as a fire lane.

Exception: Roads 34 feet or wider with wedge curbs on both sides, need not to be posted.”

ADOPT THE FOLLOWING APPENDIXES:

APPENDIX E – HAZARD CATAGORIES

APPENDIX F – HAZARD RANKING

APPENDIX G – CRYOGENIC FLUIDS – WEIGHT AND VOLUME EQUIVALENTS

APPENDIX H – HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP) AND HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) INSTRUCTIONS

APPENDIX K – CONSTRUCTION REQUIREMENTS IN EXISTING AMBULATORY CARE FACILITIES

APPENDIX N – INDOOR TRADE SHOWS AND EXHIBITIONS

APPENDIX O – VALET TRASH AND RECYCLING COLLECTION IN GROUP R-2 OCCUPANCIES