

## **ORDINANCE NO. 4994**

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CHANDLER, ARIZONA, DECLARING THE DOCUMENTS KNOWN AS THE “INTERNATIONAL FIRE CODE, 2021 EDITION,” AND “2021 AMENDMENTS TO CHAPTER 28, FIRE PREVENTION,” AS PUBLIC RECORDS; AMENDING THE CODE OF THE CITY OF CHANDLER, CHAPTER 28, FIRE PREVENTION, BY REPEALING THE INTERNATIONAL FIRE CODE, 2018 EDITION, BY ADOPTING THE 2021 INTERNATIONAL FIRE CODE, AND BY AMENDING AND CLARIFYING THE EXCEPTION PROVISIONS TO THE CODE; PROVIDING FOR REPEAL OF CONFLICTING ORDINANCES; PROVIDING FOR SEVERABILITY AND ESTABLISHING AN EFFECTIVE DATE.

WHEREAS, Chapter 28 of the Code of the City of Chandler provides that the City of Chandler, Arizona has adopted the 2018 edition of the International Fire Code, subject to specified amendments thereto as set forth in Chapter 28 of the Code of the City of Chandler; and

WHEREAS, the City of Chandler Fire Department believes it to be prudent to adopt the 2021 edition of the International Fire Code and to clarify and amend the provisions to the International Fire Code that are presently set forth in Chapter 28 of the Code of the City of Chandler; and

WHEREAS, the City of Chandler believes it to be prudent to adopt the updated editions of certain codes related to fire prevention previously adopted by reference and to otherwise update the provisions set forth in Chapter 28, Code of the City of Chandler.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Chandler, Arizona as follows:

**SECTION 1:** That certain document known as the “International Fire Code, 2021 edition,” one (1) paper copy and one (1) electronic copy, which shall remain on file in the office of the City Clerk, and is hereby adopted by reference, with the additions, insertions, deletions, and changes set forth herein and is hereby declared to be a public record.

**SECTION 2:** That certain document known as the “2021 Amendments to Chapter 28, Fire Prevention,” one (1) paper copy and (1) electronic copy, which shall remain on file in the office of the City Clerk, is hereby adopted by reference with the additions, insertions, deletions, and changes set forth herein and is hereby declared to be a public record.

**SECTION 3:** That Chapter 28, Fire Prevention, is hereby amended by repealing the 2018 International Fire Code, and by adopting 2021 International Fire Code, and by adopting the “2021 Amendments to Chapter 28, Fire Prevention.”

SECTION 4: Providing for Repeal of Conflicting Ordinances. All ordinances or parts of ordinances in conflict with the provisions of this ordinance, or any parts hereof, are hereby repealed.

SECTION 5: Providing for Severability. If any section, subsection, sentence, clause, phrase, or portion of this ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions thereof.

SECTION 6: Providing for an Effective Date. That the 2021 International Fire Code, and the 2021 Amendments to Chapter 28, Fire Prevention of the Code of the City of Chandler as adopted herein are effective July 1, 2022.

INTRODUCED AND TENTATIVELY APPROVED by the City Council of the City of Chandler, Arizona, this \_\_\_\_ day of \_\_\_\_\_, 2022.

ATTEST:

\_\_\_\_\_  
CITY CLERK

\_\_\_\_\_  
MAYOR

PASSED AND ADOPTED by the City Council of the City of Chandler, Arizona this \_\_\_\_ day of \_\_\_\_\_, 2022.

ATTEST:

\_\_\_\_\_  
CITY CLERK

\_\_\_\_\_  
MAYOR

CERTIFICATION

I HEREBY CERTIFY that the above and foregoing Ordinance No. 4994 duly passed and adopted by the City Council of the City of Chandler, Arizona, at a regular meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2022, and that a quorum was present thereat.

\_\_\_\_\_  
CITY CLERK

APPROVED AS TO FORM:

\_\_\_\_\_  
CITY ATTORNEY 

Published in the Arizona Republic on:

2021 Amendments to Chapter 28, Fire Prevention  
{Public Record for Ordinance No. 4994}

The Chandler City Code Chapter 28, Fire Prevention, is hereby amended to read as follows (additions in ALL CAPS, deletions in ~~strikeout~~):

**Chapter 28 – FIRE PREVENTION**

**28-1. - International Fire Code adopted.**

The City Council of Chandler adopts by reference the International Fire Code, ~~2018~~ **2021** edition and incorporates it herein as if fully set out in this Chapter 28 with the additions, insertions, deletions, and changes set forth herein. The term "code" without further description when used in the portions of the International Fire Code which are not amended and in this Chapter 28 shall mean the ~~2018~~ **2021** edition of the International Fire Code as amended herein by the additions, insertions, deletions, and changes set forth and adopted herein. Whenever the code refers to other publications of the International Code Council, including, but not limited to, the International Building Code, which have been adopted by the City, such references shall be to the version of the publications as amended by the City.

**28-2. – Jurisdiction.**

Section 101.1 of the code is hereby deleted in its entirety and replaced by a new Section 101.1 and Section 101.1.1 to read as follows:

101.1 Title. These regulations shall be known as the City of Chandler Fire Code, hereinafter referred as this or the "code." The terms "City" and "City of Chandler" are used interchangeably in this code.

101.1.1 Assuming jurisdiction of fire prevention standards. Pursuant to Arizona Revised Statutes (A.R.S.) § 37.1383(A)(5), the City of Chandler, having in effect a nationally recognized Fire Code, does hereby assume jurisdiction from the State Fire Safety Committee for prescribing and enforcing fire prevention standards throughout the City of Chandler. Such standards shall not supersede or exempt state or county owned and operated buildings and public schools from the State Fire Safety Committee's established fire prevention standards.

**28-3. – Appointment of fire code official.**

Section 103.2 of the code is hereby deleted in its entirety and replaced with a new Section 103.2 to read as follows:

103.2 Appointment. The City Fire Chief has designated and appointed the City Fire Marshal to act as the fire code official.

#### **28-4. – Permits required.**

Section ~~105.1.1~~ of the code is hereby deleted in its entirety and replaced with a new Section 105.1.1 to read as follows:

105.1.1 Permits required. Permits required by this code shall be obtained from the fire code official prior to engaging in any of the activities, operations, practices, or functions requiring a permit. Permit fees, if any, shall be adopted by the City by resolution and shall be paid prior to issuance of the permit.

#### **28-5. – Hazardous materials.**

Section ~~105.6.21~~ **105.5.22** of the code is hereby deleted in its entirety and replaced with a new Section ~~105.6.21~~ **105.5.22** to read as follows:

~~105.6.21~~ **105.5.22** Hazardous materials. An operational permit is required to store, transport on site, dispense, use, or handle hazardous materials ~~in excess of~~ **MORE THAN** the amounts listed in Table **105.5.22** ~~105.6.20~~. The Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) to be submitted in conjunction with the operating permit shall be updated and submitted to the fire code official for approval annually.

#### **28-6. – Open burning.**

Section ~~105.6.32~~ **105.5.34** of the code is hereby deleted in its entirety and replaced with a new Section ~~105.6.32~~ **105.5.34** to read as follows:

~~105.6.32~~ **105.5.34** Open burning. An operational permit is required for the kindling or maintenance of an open fire or a fire on any public street, alley, road or other public or private ground. Instructions and stipulations of the permit shall be adhered to.

Exception: Recreational fires.

#### **28-7. – Fire protection equipment.**

Section ~~105.6~~ **105.5** of the code is hereby further amended by adding a new section ~~105.6.51~~ **105.5.53** entitled "Fire protection equipment" to read as follows:

~~105.6.51.~~ **105.5.53** Fire protection equipment. An operational permit is required for any person, corporation, partnership, or other entity engaged in the primary business of selling, servicing, or installing portable fire extinguishers, fire alarms and fire detection equipment or fixed fire-extinguishing equipment within the City of Chandler.

#### **28-8 – FIRE RE-INSPECTION FEE AND COUNCIL ACTION.**

**SECTION 107 OF THE CODE IS HEREBY AMENDED BY ADDING A NEW SECTION 107.7 ENTITLED "FIRE RE-INSPECTION FEE" AND A NEW SECTION 107.8 ENTITLED "COUNCIL ACTION" TO READ AS FOLLOWS:**

**107.7 FIRE RE-INSPECTION FEE. FACILITIES THAT ARE RE-INSPECTED TO ENSURE THAT A CODE VIOLATION HAS BEEN PROPERLY ADDRESSED MAY BE ASSESSED A RE-INSPECTION FEE. A RE-INSPECTION FEE MAY BE ASSESSED FOR THE SECOND RE-INSPECTION FOR THE SAME VIOLATION.**

**107.8 COUNCIL ACTION. ALL FEES IDENTIFIED IN THIS CODE SHALL BE ADOPTED BY THE CITY COUNCIL BY RESOLUTION.**

**~~28-8.~~28-9. – Self-inspection.**

Section ~~107~~ **108** of the code is hereby amended by adding a new Section ~~107.5~~ **108.5** entitled "Self-inspection" to read as follows:

~~107.5~~ **108.5** Self-inspection. The fire code official is hereby authorized to establish procedures regarding inspections of business, commercial and industrial facilities within the City. Any owner or occupant of a business, commercial or industrial facility who fails to perform a self-inspection as requested by the fire code official in accordance with the procedures established may be charged the cost for the fire code official, or his/her designee, to perform such inspection.

**~~28-9.~~ 28-10. – ~~Board~~ MEANS of Appeals.**

Sections ~~109.1~~ **111.1** and ~~109.3~~ **111.3** of the Code are hereby deleted in their entirety. Section ~~109.1~~ **111.1** is replaced with a new Section ~~109.1~~ **111.1** entitled "Appeals to Chandler Board of Appeals" to read as follows:

~~109.1~~ **111.1** *Appeals to Chandler Board of Appeals.* The Chandler Board of Appeals shall hear and decide appeals of orders, decisions, or determination made by the fire code official relative to the application and interpretation of this code.

**~~28-10.~~ 28-11. – ~~Enforcement and violations~~ VIOLATIONS.**

Section ~~110.1~~ **112.1** of the code, shall be deleted in its entirety and replaced with a new Section ~~110.1~~ **112.1** to read as follows:

~~110.1~~ **112.1** Unlawful acts. It shall be unlawful for a person, firm, or corporation to erect, construct, alter, repair, remove, demolish, or utilize a building, occupancy, premises, or system regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code. Each day that a violation continues after notice of violation, in accordance with Section ~~110.3~~, **112.3** has been served shall be deemed a separate offense.

**~~28-11.~~ 28-12. – Civil and criminal penalties.**

Sections ~~110.4~~ **112.4** and ~~110.4.1~~ **112.4 .1** of the code are hereby deleted in their entirety and the penalties and civil remedies are set forth below in Sections 28-24 and 28-27 of this Chapter.

**~~28-12. — Fire re-inspection fee and Council action.~~**

~~Section 106 of the code is hereby amended by adding a new Section 106.6 entitled "Fire re-inspection fee" and a new Section 106.7 entitled "Council action" to read as follows:~~

~~106.6 Fire re-inspection fee. Facilities that are re-inspected to ensure that a code violation has been properly addressed may be assessed a re-inspection fee. A re-inspection fee may be assessed for the second re-inspection for the same violation.~~

~~106.7 Council action. All fees identified in this code shall be adopted by the City Council by resolution.~~

**28-13. – DEFINITIONS.**

**SECTION 202 GENERAL DEFINITIONS OF THE CODE IS HEREBY AMENDED TO READ AS FOLLOWS:**

**GROUP I, INSTITUTIONAL.**

**SIX TO 10 PERSONS RECEIVING CUSTODIAL CARE. A FACILITY HOUSING NOT FEWER THAN SIX (6) AND NOT MORE THAN TEN (10) PERSONS RECEIVING CUSTODIAL CARE SHALL BE CLASSIFIED AS GROUP R-4.**

**RESIDENTIAL GROUP R-4. RESIDENTIAL GROUP R-4 SHALL INCLUDE BUILDINGS, STRUCTURES, OR PORTIONS THEROF FOR MORE THAN FIVE (5) BUT NOT MORE THAN TEN (10) PERSONS, EXCLUDING STAFF, WHO RESIDE ON A 24-HOUR BASIS IN A SUPERVISED RESIDENTIAL ENVIRONMENT AND RECEIVE CUSTODIAL CARE.**

**~~28-13.~~28-14. – Expense recovery.**

Section 304 of the code is hereby amended by adding new Sections 304.4 entitled "Expense recovery" to read as follows:

304.4 Expense recovery. Any owner, operator, occupant, or other person responsible for property, who fails to correct a violation of Section 304 within fifteen (15) days of the fire code official issuing an order or notice which is served pursuant to the provisions of Section ~~109.3-112.3~~, shall be charged for any costs incurred by the City of Chandler in responding to any fire at the subject property while the violation continues to exist. The provisions of this Section are for the purpose of reimbursing the City of Chandler's costs and shall be in addition to any penalties that may apply. The fire code official shall keep or cause to be kept an itemized account of the expenses involved in responding to each fire, including personnel, equipment, and administrative costs, as well as the costs incurred by other fire departments responding to calls within the City of Chandler, due to City of Chandler fire crews being unavailable for service ~~as a result~~ **BECAUSE** of said fire. The collection and appeal provisions set forth in Section 108 and Chapter 26 of the Code of the City of Chandler, shall apply to this Section 304.4.

**~~28-14.~~ 28-15. – Dimensions.**

Section 503.2.1 of the code is hereby amended to read as follows:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm), exclusive of shoulders, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 15 feet (4572 mm).

**~~28-15.~~ 28-16. – Premises identification.**

Section 505.1 of the code is hereby deleted in its entirety and replaced with a new Section 505.1 to read as follows:

505.1 Address numbers. Approved numbers or addresses shall be placed on all new or existing buildings within the City in accordance with criteria specified in the latest version of the Street Naming and Addressing Procedures adopted by the City of Chandler. Properties annexed into the City shall display only a city-assigned premises identification number. Said number shall be permanently affixed to all premises within thirty (30) days of notification of the City of the new address. No building address shall be changed except in the manner prescribed in the City of Chandler Street Naming and Addressing Procedures.

**~~28-16.~~ 28-17. – Emergency responder radio communication.**

Section 510.1 and 510.4.1.2 of the code are hereby amended to read as follows:

510.1 Emergency responder radio communications. Buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. The requirements of this Section 510.1 shall apply to all buildings and structures located in the City that satisfy any of the following characteristics:

1. Buildings or structures that are more than three (3) stories above ground level;
2. Buildings or structures totaling forty-five thousand (45,000) square feet or more on any single floor;
3. Buildings or structures that include a basement or other subterranean space totaling two hundred fifty (250) square feet or more; or
4. Buildings or structures that the fire code official has determined to have been constructed in a manner or with materials likely to limit the ability of emergency response personnel to effectively use radio communication while within that building or structure.

Exception. The requirements set forth in this Section 510.1 shall not apply to the following:

1. U occupancies and R3 occupancies that are single family detached residences;

2. Buildings and structures utilizing only wood framing; and

3. Buildings and structures that are less than thirty-five (35) feet above ground level and do not utilize any metal framing or metal roofing.

510.4.1.2 Minimum signal strength out of the building. In keeping with applicable engineering practice specific to the architecture of the regional digital radio communications network, standardized Delivered Audio Quality (DAQ) measurements are specified to verify acceptable levels of signal strength exiting the building. **MINIMUM SIGNAL STRENGTH OUT OF THE BUILDING MUST MEET THE REQUIREMENTS OF THE RWC (REGIONAL WIRELESS COOPERATIVE) WORKING GROUP.**

**~~28-17.~~ 28-18. – Fire extinguishing system installations.**

Section 903 of the code is hereby amended by deleting Sections 903.2 through 903.2.10 in their entirety, reserving Section Number 903.2.10 and adding new Sections 903.2 through 903.2.9 to read as follows:

903.2 Where required. Subject to the exceptions set forth herein, approved automatic sprinkler systems shall be provided in the locations within the City described in this Section. Installation of fire sprinkler systems shall be performed by an Arizona licensed fire protection contractor.

Exceptions:

1) An automatic sprinkler system is not required for spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707, Fire Barriers, of the International Building Code or not less than 2-hour horizontal assemblies constructed in accordance with Section 711, Floor and Roof Assemblies, of the International Building Code, or both.

2) An automatic sprinkler system is not required for buildings or structures which were constructed and in use prior to September 11, 1996, and for which a change in use or occupancy of any structure has not occurred as set forth in Section 102.3. Any change in use or occupancy of these buildings shall refer to the ~~2018~~ **2021** International Existing Building Code to determine if fire sprinklers will be required with the change.

3) In addition to the general authority granted to the fire code official pursuant to Section 104.9, the fire code official shall have discretion to exempt other facilities from automatic sprinkler system requirements where the size, intended use, and extent of use of the facility does not warrant the installation of fire sprinklers and

alternate methods to secure public safety are provided. Such other facilities may include, but are not limited to:

- (1) Enclosed structures which are less than three thousand (3,000) square feet in size, at least fifty (50) percent open on the sides and used to protect humans, animals, or property from the sun or elements.
- (2) Structures which are less than three hundred (300) square feet in size used to monitor access to a larger facility, site, or area.
- (3) Structures temporarily used for a period not to exceed two (2) years for onsite storage or maintenance purposes provided that the structure is not used for Group A, E, F, H or I occupancies.

903.2.1 Group A. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group A occupancies.

903.2.2 Group B. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group B occupancies.

903.2.3 Group E. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group E occupancies.

903.2.4 Group F. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group F occupancies.

903.2.5 Group H. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group H occupancies.

903.2.6 Group I. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group I occupancies.

903.2.7 Group M. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group M occupancies.

903.2.8 Group R. Subject to the exceptions set forth herein, an automatic sprinkler system shall be provided throughout all buildings and all portions of all Group R occupancies.

Exceptions:

1. An automatic sprinkler system is not required for Group R-3 occupancies that are single family detached residences or multiplexes that contain less than three (3) dwelling units within the structure. **DETACHED ONE- OR TWO-FAMILY DWELLINGS.**

2. An automatic sprinkler system is not required for Group R-4 occupancies occupied by less than six (6) persons not related by blood, marriage or adoption.

903.2.9. Group S. An automatic sprinkler system shall be provided throughout all buildings and all portions of all Group S occupancies.

Exception: S-2, one story, grade level, open parking structures that are entirely open, except for structural columns, on all four sides.

**~~28-18.~~ 28-19. -Specific building area hazards.**

Section 903.2.11 of the code is hereby amended to read as follows:

Section 903.2.11 In all occupancies, including all Group U occupancies larger than three thousand (3,000) square feet, an automatic sprinkler system shall be installed for building design or hazards in the locations set forth in sections 903.2.11.1 through 903.2.11.6.

**~~28-19.~~ 28-20. Fire department connections.**

Section 912.2 of the code is hereby amended to read as follows:

Section 912.2 Location. With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hoses connected to supply the system will not obstruct access to the buildings for other apparatus. The location of fire department connections shall be located on private property six (6) to ten (10) feet behind curb (of street) at a permanent entrance to site or as otherwise approved by the fire chief.

**~~28-20.~~ 28-21. Electronic filing.**

Section 5001.5 of the code is hereby amended by adding a new Section 5001.5.3 entitled "Electronic filing" to read as follows:

5001.5.3. Electronic filing. The fire code official is hereby authorized to establish procedures requiring the electronic filing of HMMP and HMIS. An approved HMMP and/or HMIS must remain on site.

**~~28-21.~~ 28-22. – Fireworks preemption.**

Section 5601.1 of the code is hereby amended by deleting Exception 9 in its entirety and adding new Exceptions 9 and 10 to read as follows:

Exception 9. Items preempted by federal or state regulations.

Exception 10. The possession, manufacture, storage, handling, sale, and use of fireworks in accordance with other City ordinances.

**~~28-22.~~ 28-23. – EXPLOSIVES AND Fireworks.**

Section 5601.1.3 of the code is hereby amended by repealing Exception 4 in its entirety and replacing it with a new Exception 4 to read as follows:

Exception 4. The possession, storage, sale, handling and use of specific types of Division 1.4G fireworks where allowed by applicable laws, ordinances, and regulations, provided that such fireworks and facilities comply with NFPA 1124, CPSC 16 CFR Parts 1500 and 1507, DOTN 49 CFR Parts 100-185 (**2006 EDITION**), and Arizona Revised Statutes (A.R.S.) SectionS 36-1601, et seq., as applicable for consumer fireworks. The sale of

permissible consumer fireworks as defined under A.R.S. SectionS 36-1601, et seq., is only allowed **APRIL 25<sup>TH</sup> THROUGH MAY 6<sup>TH</sup>**, May 20<sup>TH</sup> through July 6<sup>TH</sup>, and December 10<sup>TH</sup> through January 3<sup>RD</sup>. The use of permissible consumer fireworks as defined under A.R.S. SectionS 36-1601, et seq., is only allowed **MAY 4<sup>TH</sup> THROUGH MAY 6<sup>TH</sup>**, June 24<sup>TH</sup> through July 6<sup>TH</sup>, and December 24<sup>TH</sup> through January 3<sup>RD</sup> **ON PRIVATE PROPERTY WITH THE PERMISSION OF THE PROPERTY OWNER OR THE PROPERTY OWNER'S DULY APPOINTED AGENT. EXCEPT AS AUTHORIZED BY A PERMIT ISSUED BY THE FIRE CHIEF OR FIRE CHIEF'S DESIGNEE, THE USE, DISCHARGE, OR IGNITION OF PERMISSIBLE CONSUMER FIREWORKS IS PROHIBITED IN ALL PUBLIC PARKS, PUBLIC RENTENTION BASINS, AND PUBLIC FACILITIES.**

## **~~28-23.~~ 28-24. – Appendices.**

This code is hereby further amended by deleting Appendix A, J and M in their entirety and specifying that Appendix E, F, G and H are included for informational purposes only and ARE not adopted by the City as part of this code. All other Appendices set forth in this code are hereby adopted as part of this code.

Appendix L of the code is hereby deleted in its entirety and replaced with a new Appendix L to read as follows: Requirements for firefighter air replenishment ~~system~~ **SYSTEMS**.

"Firefighter Air Replenishment System (~~FAR~~ **FARS**)" to read as follows:

### **L101. Fire fighter air replenishment systems.**

L101.1 General. A breathing air replenishment system (FAR System) is a complete, self-contained high pressure breathing air replenishment system consisting of a fire department air connection panel, remote air fill panels and high pressure interconnected piping, permanently installed within a structure, allowing fire department personnel to replenish empty self-contained breathing apparatus cylinders within close proximity to the location of the incident requiring emergency response, thus reducing the amount of travel distance, time and support personnel needed at an emergency incident.

L101.2. Applicability. The requirements of this Section shall apply to all buildings and structures to include expansions, alterations, and modifications meeting the specifications set forth in Section L101.3.

L101.3. Buildings and structures requiring FAR System. A FAR System shall be installed in buildings and structures located in the City meeting either of the following criteria:

1. Buildings and structures seventy-five (75) feet in height or more above grade or which are otherwise characterized as high-rise buildings; and
2. Underground buildings and structures, or components thereof, totaling ten thousand (10,000) square feet or more that are either more than two (2) floors below grade or more than thirty (30) feet below grade.

L101.4. Plans. Engineered stamped design drawings of the FAR System shall be submitted to the City building official and the fire code official. The plans shall include equipment/component drawings, system calculations, and manufacturer's technical product data, to include all piping, fittings, valves, gauges, cabinets, locking devices, hangers, supports and all other system components as may be necessary to install the FAR System. The installation of the FAR System shall not commence until the plans therefore have been approved. A fee for plan review and inspection shall be adopted by the City by resolution and shall be paid prior to plan review.

L101.5. Contractor qualifications. The FAR system shall be installed, tested and maintained by a contractor with the appropriate Arizona Registrar of Contractors license classification.

Any contractor responsible for installation, testing, or maintenance of a FAR system shall also have a Chandler Fire Department operational permit for Fire Protection Contractors pursuant to Section 105.6.51.

L101.6. FAR System requirements. The FAR System shall allow fire department personnel to simultaneously replenish four (4), forty-five (45) cubic foot self-contained breathing apparatus cylinders at any one (1) time; two (2) at three thousand (3,000) psi and two (2) at four thousand five hundred (4,500) psi. Fire department personnel shall be able to connect into the FAR System's fire department air connection panel from a mobile air support apparatus thereby providing a constant source of breathing air supplied directly from the air support apparatus to the system's remote air fill panels.

L101.7. FAR System components. The FAR System shall consist of the following minimum components:

1. Fire department air connection panel;
2. Remote air fill panels;
3. Interconnected piping; and
4. Low pressure monitoring switches and alarm.

L101.8. Fire department air connection panel. A fire department air connection panel shall be installed on the exterior of the building or within a remote monument at a location approved by the fire code official and shall be interconnected to the building's interior remote air fill panels. The fill inlet and associated components of the air connection panel shall be contained in a lockable, weather tight enclosure.

The exterior fire department connection panel shall contain all of the necessary gauges, isolation valves, pressure relief valves, pressure regulating valves, check valves, tubing, fittings, supports, connectors, adapters and other necessary components as may be required to allow the fire departments mobile air unit to connect and augment the system with a constant source of breathing air.

The fire department air connection panel shall be installed in an area protected from physical damage. The panel shall be **ALWAYS** locked ~~at all times~~, unless in use by fire department personnel. The locking mechanism for the panel cover shall be contained in an approved key box installed at a location approved by the fire code official. The key to unlocking the cover shall be stored in the approved key box.

L101.9. Remote air fill panels. Unless otherwise approved by the fire code official, the remote air fill panels shall be installed in the above grade portion of applicable structures in stairwells commencing on the third floor above grade level and every other floor above grade level thereafter. Unless otherwise approved by the fire code official, the remote air fill panels shall be installed in the below grade portion of applicable structures in stairwells, or other areas of ingress or egress approved by the fire code official, commencing on the third floor below ground level and every other floor below grade level thereafter or, if there are less than three (3) floors below ground level, the lowest floor.

The remote air fill panels shall contain all of the necessary gauges, isolation valves, pressure relief valves, pressure regulating valves, check valves, tubing, fittings, supports, connectors, adapters and other necessary components as may be required to allow firefighters and other first responders to safely and reliably replenish a minimum of two (2) forty-five (45) cubic feet breathing air cylinders simultaneously.

L101.10. Piping, valves and fittings. Unless otherwise approved by the fire code official, all piping, valves and fitting shall be compatible and support a minimum working pressure of five thousand (5,000) psi with a safety factor of 4 to 1.

Piping shall be supported at not less than five-foot intervals. The entire system shall be protected by a minimum of two-hour rated fire wall that protects the system from possible damage.

When piping must pass through a fire rated or solid material, the piping shall be protected by a sleeve that is at least three (3) times the pipe diameter. Both ends of the sleeve shall be filled with an approved fire stop.

L101.11. Low pressure monitoring and alarm. When not being utilized by fire department personnel, the FAR System shall maintain a constant pressure of at least four thousand five hundred (4,500) psi. An alarm or monitoring system capable of detecting, and that is set to detect, a pressure drop of one thousand (1,000) psi shall be included and maintained with the FAR System. A building or structure owner, or his or her designee, shall notify the fire department of any alarm signaling a loss of pressure to the system and of any scheduled test of the system to be conducted by the owner of the building or structure. Unless otherwise approved by the fire code official, the low-pressure alarm shall be tied into the fire and smoke alarm system for the building or structure.

L101.12. Markings and record keeping. The fire department air connection panel and the remote air fill panels shall be clearly identified by means of permanently installed signage stating firefighter air system in minimum one and one-half (1½)

inch letters and be located where plainly visible. The owner and/or occupant of the building or structure shall keep the area in and around the fire department air connection panel and the remote air fill panels free of objects that may block use of these panels.

L101.13. Initial testing requirements. When fabrication, assembly and installation of the FAR System is complete, the entire system shall be tested in accordance with the following:

1. The system shall be inspected for leaks by pneumatically pressure testing the system to five thousand (5,000) psi using oil-free, dry air. An approved solution shall be used on each joint and fitting in the system. All leaks or failure to maintain five thousand (5,000) psi pneumatic pressure shall be documented by the system installer and forwarded to the system manufacturer for inspection, repair and/or replacement.
2. Upon successful completion of the five thousand (5,000) psi pressure testing, the entire system shall be pneumatically pressure tested to one and one-half (1½) times the working pressure (seven thousand five hundred (7,500) psi) using oil free, dry air for at least one (1) hour. All leaks or failure to maintain seven thousand five hundred (7,500) psi pneumatic pressure shall be documented by the system installer and forwarded to the system manufacturer for inspection, repair and/or replacement.
3. Upon successful completion of the seven thousand five hundred (7,500) psi pressure testing, the entire system shall be retested for a period of twenty-four (24) hours. All leaks or failure to maintain five thousand (5,000) psi pneumatic pressure shall be documented by the system installer and forwarded to the system manufacturer for inspection, repair and/or replacement.

L101.14. On-going testing and maintenance requirements. Breathing air samples from the FAR System shall be taken by an independent, qualified entity on an annual basis and shall be analyzed by an accredited testing laboratory in the manner specified in NFPA 1989, Section 5.3. Testing pursuant to this Section shall also be required after the FAR System is utilized or upon determination by the fire code official that contamination of the air in the FAR System may be contaminated. The FAR System shall otherwise be tested and maintained in accordance with NFPA Standards and manufacturer specifications.

L101.15. Inspection and record keeping. Records of all maintenance and testing of the FAR System shall be kept on-site for a minimum of three (3) years and be available to fire department personnel upon request. Fire department personnel shall either in conjunction with a fire inspection of the building or structure or, after providing reasonable notice to the owner or occupant of the building or structure, or his or her designee, have the right to enter onto the property to inspect the FAR System and the records relating to the maintenance and testing of that system.

**~~28-24.~~ 28-25. – Criminal penalties.**

Except violations of IFC Subsections 503.4 and 507.5.4, persons (or legal entities included in the definitions of "person" in Section 202) who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a Class 1 misdemeanor punishable by a fine not exceeding two thousand five hundred dollars (\$2,500.00) or twenty thousand dollars (\$20,000.00) if a legal entity, by imprisonment for a term not exceeding six (6) months, or by probation for a term not exceeding three (3) years, or by any combination thereof. Violations of IFC Subsections 503.4 and 507.5.4 shall be punishable as civil infractions under the Chandler City Code Subsection 1-8.7.

a. The imposition of a criminal penalty does not prevent suspension or revocation of a license, permit or franchise or other administrative sanctions.

b. The imposition of criminal penalties does not prevent enforcement and any enforcement available under Section ~~28-25~~ **28-26**.

**~~28-25.~~ 28-26. – Abatement of violations.**

In addition to the imposition of the penalties herein described, the fire code official is authorized to institute appropriate action by injunctive or other equitable remedies, including pursuant to Section 110 of this code, Chapter 26 of the Chandler Code, or state law, to prevent unlawful construction or to restrain, correct or abate a violation; or to prevent illegal occupancy of a structure or premises; or to stop an illegal act, conduct of business or occupancy of a structure on or about any premises.

a. The imposition of any remedy in Section 28-25 does not prevent suspension or revocation of a license, permit or franchise or other administrative sanctions.

b. The imposition of any remedy in Section 28-25 does not prevent criminal enforcement options.

**~~28-26.~~ 28-27. – Abatement Expenses.**

To the extent that the responsible person does not comply with the terms of any abatement order received, the City may seek recovery of its expenses in abating the violation cited, including, without limitation, those expenses associated with orders issued pursuant to this code, or the procedures set forth in state law or Chapter 26 of the Chandler Code.

**~~28-27.~~ 28-28. – Provisions deemed continuation of existing ordinances.**

The provisions of this code, insofar as they are substantially the same as legislation previously adopted by the City relating to the same subject matter, shall be construed as restatements and continuations thereof and not as new enactments.