

WHEN RECORDED RETURN TO:

City of Tolleson
ATTN: City Clerk, Chris Hagen
9555 West Van Buren Street
Tolleson, Arizona 85353

ORDINANCE NO. 548 N.S.

AN ORDINANCE OF THE MAYOR AND CITY COUNCIL OF THE CITY OF TOLLESON, ARIZONA, AMENDING THE CITY CODE OF THE CITY OF TOLLESON BY ADOPTING BY REFERENCE THE "CITY OF TOLLESON, ARIZONA 2014 BUILDING CODES UPDATE," PROVIDING FOR SEVERABILITY, AND FOR PENALTIES.

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF TOLLESON, ARIZONA, as follows:

Section 1. That certain document entitled "City of Tolleson, Arizona 2014 Building Codes Update," three copies of which are on file in the office of the City Clerk, which document was made a public record by Resolution No. 2211 of the City of Tolleson, Arizona (the "Tolleson 2014 Building Codes Update"), is hereby referred to, adopted and made a part hereof as if fully set out in this Ordinance.

Section 2. The City Code of the City of Tolleson, Arizona (the "City Code"), Chapter 12, Land Use, Article 12-1, Building Regulations; Construction, is hereby amended by deleting Section 12-1-20, Adoption, in its entirety and replacing it with the titles and text set forth in the Tolleson 2014 Building Codes Update, adopted herein by reference.

Section 3. If any section, subsection, sentence, clause, phrase or portion of this Ordinance or any part of the Tolleson 2014 Building Codes Update adopted herein by reference is for any reason to be held 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 4. In the event of any inconsistency, conflict or ambiguity among any section, subsection, sentence, clause, phrase or portion of the (1) Tolleson 2014 Building Codes Update adopted herein by reference, (2) the City Code, or (3) this Ordinance, the documents shall govern in the order listed herein.

Section 5. The following penalties are provided in the City Code and are applicable to the provisions adopted by reference in this Ordinance:

(a) Any person that violates any provision of the zoning code and/or building codes shall be subject to a civil penalty of a minimum of \$250 base fine, up to a maximum of \$2,500 for the first violation, a minimum of \$300 base fine, up to a maximum of \$2,500 for a second violation, and a minimum of \$350 base fine, up to a maximum of \$2,500 for a third violation in any 24-month period.

(b) The civil fine required by this division shall not be suspended in whole or in part.

(c) Any defendant that fails to pay the fine or appear in the City Court as directed by a citation issued pursuant to this section, or who fails to appear at the time and place set for trial of a matter arising under this section, shall be subject to an additional default fee equal to the applicable minimum civil penalty for the violation that caused the issuance of the citation.

(d) Any judgments issued by the Tolleson City Court shall be subject to all surcharges and fees imposed by state law in addition to the civil fines required by this section.

(e) Judgments shall be collected in the same manner as any other civil judgment as provided by law.

Section 6. The Tolleson 2014 Building Codes Update adopted herein by reference shall be effective January 9, 2015.

Section 7. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to take all steps and to execute all documents necessary to carry out the purpose and intent of this Ordinance.

PASSED AND ADOPTED by the Mayor and City Council of the City of Tolleson, Arizona, this 9th day of December, 2014.



Adolfo F. Gamez, Mayor

ATTEST:



Chris Hagen, City Clerk

APPROVED AS TO FORM:



Scott W. Ruby, City Attorney

City of Tolleson, Arizona
2014 Building Codes Update

INTERNATIONAL CODES

§ 12-1-20 ADOPTION.

(A) The following codes are hereby adopted and made of a part of this article the same as though the codes were specifically set forth in full herein.

(B) The following codes, three copies of which are on file in the office of the City Clerk, which documents were made a public record by Resolution No. 2211, of the City of Tolleson, Arizona, are hereby adopted by reference as if fully set forth in this section and the City of Tolleson Code as follows.

(1) The International Building Code, 2012 Edition, as published by the International Code Council, Inc., with amendments and exclusions as follows.

(a) The following appendix is hereby adopted as part of the Tolleson adoption of the International Building Code 2012 Edition: Appendix I: Patio Covers.

(b) The following appendices are hereby excluded and not adopted in the Tolleson adoption of the International Building Code, 2012 Edition:

1. Appendix A: Employee Qualifications;
2. Appendix B: Board of Appeals;
3. Appendix C: Group U-Agricultural Buildings;
4. Appendix D: Fire Districts;
5. Appendix E: Supplementary Accessibility Requirements;
6. Appendix F: Rodent Proofing;
7. Appendix G: Flood Resistant Construction;
8. Appendix H: Signs;
9. Appendix J: Supplementary Accessibility Requirements for Qualified Historic Buildings and Facilities;
10. Appendix K: Administrative Provisions;
11. Appendix L: Earthquake Recording Instrumentation; and
12. Appendix M: Tsunami-Generated Flood Hazard.

(2) The International Residential Code, 2012 Edition, as published by the International Code Council, Inc., with amendments and exclusions, as follows.

(a) The following appendices are hereby adopted as part of the Tolleson adoption of the International Residential Code, 2012 Edition:

1. Appendix B: Sizing of Venting Systems serving appliances equipped with Draft Hoods, Category I appliances and appliances listed for use and Type B Vents;
2. Appendix C: Exit Terminals of Mechanical Draft and Direct-vent Venting Systems;
3. Appendix D: Recommended Procedure for Safety Inspection of an Existing Appliance Installation;
4. Appendix H: Patio Covers;
5. Appendix J: Existing Buildings and Structures;
6. Appendix L: Permits Fees (as previously adopted under 2006 IBC Residential Code until updated/changed by the City Council.)
7. Appendix M: One Day Care R-3 Occupancy; and
8. Appendix O: Automatic Vehicular Gates.

(b) The following appendices are hereby excluded and not adopted in the Tolleson adoption of the International Residential Code, 2012 Edition:

1. Appendix A: Sizing and capacities of Gas Piping;
2. Appendix E: Manufactured Housing Used as Dwellings;
3. Appendix F: Radon Control Methods;
4. Appendix G: Swimming Pools, Spas and Hot Tubs;
5. Appendix I: Private Sewage Disposal;
6. Appendix K: Sound Transmission;
7. Appendix N: Venting Method;
8. Appendix P: Sizing of Water Piping System; and
9. Appendix Q: ICC Residential Code Electrical Provisions/National Electrical Code Cross Reference.

(c) The following code section is hereby excluded and not part of the adoption of International Residential Code, 2012 Edition: Section P2904 Dwelling Unit Fire Sprinkler Systems.

(3) The International Mechanical Code, 2012 Edition, as published by the International Code Council, Inc., with amendments and exclusions as follows.

(a) The following appendix is hereby adopted as part of the Tolleson adoption of the International Mechanical Code, 2012 Edition: Appendix A: Combustion Air Openings and Chimney Connector Pass-Through.

(b) The following appendix is hereby excluded and not adopted in the Tolleson adoption of the International Mechanical Code, 2012 Edition: Appendix B: Recommended Permit Fee Schedule.

(4) The International Property Maintenance Code, 2012 Edition, as published by the International Code Council, Inc., with the following amendments:

a) The text of Section 103.1 General, is hereby deleted in its entirety and replaced as follows:

The *code official* for the City of Tolleson shall be the City Engineer.

b) The text of Section 103.5 Fees, is hereby deleted in its entirety and replaced as follows:

The fees for activities and services performed by the *code official* and designees in carrying out the responsibilities under this code shall be as approved by the City Council.

c) The text of Section 104.3 Right of Entry, is hereby amended by adding the following to the beginning of the Section: "Subject to all applicable requirements under Arizona law,"

d) The text of Section 106.3 Prosecution of Violation, is hereby deleted in its entirety and replaced as follows:

Any enforcement of this code shall be in accordance with the requirements of the City Code and A.R.S. Section 9-499, as amended. Any person failing to comply with a notice of violation or order served in accordance with Section 107 of this code and A.R.S. Section 9-499, as amended, shall be subject to the penalties as set forth in City Code and A.R.S. Section 9-499, as amended.

- e) The text of Section 107.1 Notice to Person Responsible, is hereby deleted in its entirety and replaced as follows:

Whenever the *code official* or designee determines that there has been a violation of this code or has grounds to believe that a violation has occurred, notice shall be given in the manner prescribed in City Code Section 8-2-5 and 8-2-6, as amended, to the owner, the owner's authorized agent or the owner's statutory agent, and to the occupant or lessee of the subject property.

- f) The text of Section 107.2 Form, is hereby deleted in its entirety and replaced with the following:

Such notice prescribed in Section 107.1 of this code shall be in accordance with the requirements of A.R.S. Section 9-499, as amended, and City Code Section 8-2-5, as amended.

- g) Section 107.3 Method of Service, is hereby deleted in its entirety.

(5) The National Electrical Code NFPA 70, 2011 Edition, as published by the National Fire Protection Association, with amendments.

(6) The International Electrical Code, 2012 Edition, as published by the International Code Council, Inc., with amendments.

(7) The International Plumbing Code, 2012 Edition, as published by the International Code Council, Inc., with amendments.

(8) The International Fuel Gas Code, 2012 Edition, as published by the International Code Council, with amendments. The following appendices are hereby adopted as part of the Tolleson adoption of the International Fuel Gas Code, 2012 Edition.

(a) Appendix A: Sizing and Capacities of Gas Piping; and

(b) Appendix B: Sizing of Venting System serving appliances equipped with draft hoods; Category I Appliances and Appliances listed for Use with Type B Vents.

(9) The International Energy Conservation Code, 2012 Edition, as published by the International Code Council, Inc., with amendments.

(10) The International Existing Building Code, 2012 Edition, as published by the International Code Council, Inc., with amendments.

(11) That certain document entitled City of Tolleson Swimming Pool/Spa Requirements, dated 1994, as published by the City of Tolleson, with amendments.

(12) The International Fire Code, 2012 Edition, as published by the International Code Council, Inc., with amendments and exclusions.

(a) The following appendices are hereby adopted by the City of Tolleson as part of the International Fire Code, 2012 Edition;

1. Appendix B: Fire-Flow Requirements for Buildings;
2. Appendix C: Fire Hydrant Locations and Distribution;
3. Appendix D: Fire Apparatus Access Roads;
4. Appendix E: Hazard Categories;
5. Appendix F: Hazard Ranking;
6. Appendix G: Cryogenic Fluids-Weight and Volume Equivalents;
7. Appendix H: Hazardous Materials Management Plan (HMMP) and Hazardous Material Inventory Statement (HSIS) Instructions;
8. Appendix I: Fire Protection System – Noncompliant Conditions;

(b) The following appendices are excluded and not adopted in the Tolleson adoption of the International Residential Code, 2012 Edition:

1. Appendix A: Board of Appeals;
2. Appendix J: Building Information Sign;

(c) The International Fire Code, 2012 Edition, as adopted by the City of Tolleson, is amended by adding and/or amending the language of the International Fire Code, 2012 Edition to read as follows:

The Fire Chief of the City of Tolleson, with input and assistance from Tolleson building officials, is authorized to adopt and enforce nationally recognized standards or requirements applicable in the City of Tolleson as a supplement to the currently adopted fire code for the City of Tolleson. The standards adopted may be updated from time to time as determined by the Fire Chief. In the event of any conflict or differences between the current fire code and the adopted standards, the provisions of the fire code shall apply.

Section 105 Permits

Section 105.7.17 Gate Access Automatic Control Device. A construction permit is required for the installation of automatic gates across fire department access roads. Automatic gates shall be designed, constructed and installed to comply with the requirements of ASTM 2200.

Section 105.7.18 Firefighter Air System. A construction permit issued by the City of Tolleson Building Department is required to install or modify a Firefighter Air System.

Chapter 2, Definitions

Point of Use. A location where an asphyxiate gas is being used to operate a piece of equipment or machinery including, but not limited to, ketchup dispensers, carbonation machines, cup machines, and drive-up windows.

Sky Lantern. A device designed to carry an open flame as an airborne light.

Chapter 3, General Requirements

Section 307.3 Extinguishment Authority. When open burning creates or adds to a hazardous situation, or a required permit for open burning has not been obtained, the Fire Chief or designated representative is authorized to order the extinguishment of the open burning operation.

Section 308.1.1 Sky Lanterns. The lighting of, and the release of sky lanterns shall be prohibited.

Chapter 5, Fire Service Features

503.2.4 Turning Radius. The required turning radius of a fire apparatus access road shall have a minimum 45-foot centerline radius (37 foot inside radius, 53 foot outside radius) on curves.

503.6 Security Gates. The installation of security gates across a fire apparatus road shall be approved by the Fire Chief or fire code official. Where security gates are installed, they shall be automatic, and have a pre-emption device and Knox key switch installed. Pre-emption devices and a key switch shall be installed on all new automatic fire access gates installed after January 1, 2006. Gates installed without permits or proof of installation dates, shall be required to provide pre-emption devices and a key switch. The gate(s) with the pre-emption devices shall remain open for 30 minutes after the first emergency apparatus enters, to allow additional responding apparatus to enter during emergencies. The security gates and the emergency operation shall be maintained operational at all times. Battery backup of electronic gate operators shall be required unless the gate is equipped with a failsafe which allows the gate to open in the event of a power failure. Electronic gates shall be designed, constructed and installed to comply with the

requirements of ASTM 2200. A construction permit in accordance with the requirements of Section 105.7.17 shall be required for the installation of automatic gates.

505.1 Address Identification. 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. These numbers shall contrast with their background. Where required by fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 6 inches high with a minimum stroke width of 0.5 inch. 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. Address numbers shall be maintained.

507.3 Fire Flow. Fire flow tests used to design sprinkler systems, standpipe systems, and fire supply mains shall be performed by a contractor licensed by the State of Arizona, and who has a current business license issued by the City of Tolleson. The test shall be witnessed by the Tolleson Fire Department.

Chapter 6, Building Services and Systems

Section 606 Mechanical Refrigeration

606.8 Refrigerant Detector. Machinery rooms shall contain a refrigerant detector with an approved and distinctive audible and visual alarm. The alarm notification devices shall comply with the audible and visual requirements of the National Fire Alarm Code, NFPA 72. A supervisory alarm shall be activated when the mechanical ventilation system fails. The detector, or a sampling tube that draws air to the detector, shall be located in an area where refrigerant from a leak will concentrate. The alarm shall be activated at a value not greater than the corresponding TLV-TWA values shown in the International Mechanical Code. Detectors and alarms shall be placed in one or more locations to assure notifications of all occupants.

606.17 Alternative design requirements for anhydrous ammonia refrigeration systems. Refrigeration systems designed in accordance with ANSI/International Institute of Ammonia Refrigeration Standard 2, Equipment, Design and Installation of Ammonia Mechanical Refrigeration Systems, 1999 edition, and the International Institute of Ammonia Refrigeration, Ammonia Refrigeration Piping Handbook, 2000 edition, shall be exempt from requirements of Sections 602.12.4 and 606.12.5. The design drawings and specifications shall be sealed by an Arizona registered Professional Engineer.

606.17.1 Maintenance. Refrigeration systems shall be maintained in a safe manner that will minimize the life, health, and fire hazard of the installation. Installation shall be in accordance with the International Mechanical Code. Refrigeration systems shall be safely maintained in an operable condition, free from accumulation of oil, direct waste, excessive

corrosion, other debris or leaks. In addition to the requirements of Chapter 6, anhydrous ammonia refrigeration systems shall be inspected and maintained in accordance with the International Institute of Ammonia Refrigeration Bulletin Number 109, IIAR Minimum Safety Criteria for a Safe Refrigeration System, 1997 edition.

606.17.2 Mechanical Integrity Audit. A Mechanical Integrity Audit shall be performed by an Arizona registered Professional Engineer every five years. A copy of this audit with a timeline for corrections of deficiencies shall be submitted to the Fire Chief or fire code official.

Chapter 9, Fire Protection Systems

901.3.1 Modifications. No person shall remove or modify any fire protection system installed or maintained under the provisions of this code without the prior approval by the Fire Chief or fire code official.

901.6.3 Inspection and Testing. All fire protection systems shall be inspected and tested annually by a contractor licensed by the State of Arizona and who has a current business license issued by the City of Tolleson to work on the specific type of fire protection system being inspected or tested.

901.8.1 Removal or Tampering with Appurtenances. Locks, gates, key boxes, key switches, pre-emption devices, doors, barricades, chains, enclosures, signs, tags or seals which have been installed by or at the direction of the fire code official shall not be removed, unlocked, destroyed, tampered with or otherwise vandalized in any manner.

901.11 Clearance Around Fire Protection Systems and Equipment. A minimum of 3 feet clearance shall be maintained for access to fire protection equipment, including control valves and control panels.

903.2.8 Automatic Sprinkler Systems for One and Two Family Dwelling Units R-3 is specifically excluded and not a part of the adoption of the International Fire Code, 2012 Edition, nor any other part of the City Code.

903.4.1.1 Backflow Prevention Device. Backflow prevention devices shall be chained and locked in the open position, and shall be electrically supervised by a tamper switch which shall transmit an alarm to an approved supervising station or shall sound an audible alarm at a constantly attended location. Backflow prevention devices shall be accessible for annual servicing, inspection, and maintenance.

904.1.1 Certification of Service Personnel for Fire-Extinguishing Equipment. Service personnel providing or conducting maintenance on automatic fire-extinguishing systems,

other than automatic sprinkler systems, shall possess a valid certificate issued by an organization acceptable to the fire code official for the type of system and work performed.

904.3.4.1 Kitchen Hood Systems. Where kitchen hood systems are installed in a building with a fire alarm system designed to notify the building occupants, actuation of the hood system shall initiate the fire alarm system.

906.2.1 Certification of Service Personnel for Portable Fire Extinguishers. Service personnel providing or conducting maintenance on portable fire extinguishers shall possess a valid certificate issued by an organization acceptable to the fire code official for the type of work performed.

912.2 Location. With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located such that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. Fire department connections (FDC) shall be remote from the building.

912.2.1 Visible Location. Fire department connections shall be located at the primary entrance to the site, fully visible and recognizable

Chapter 9 of the code is further amended by adding a new Section 915 entitled Firefighter Air System to read as follows:

915. Firefighter Air Systems

915.1 General. A Firefighter Air 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.

915.1.1 Permits. A permit shall be required to install or modify a Firefighter Air System as set forth in Section 105.7.15 of the International Fire Code, 2012 Edition, as adopted.

915.2 Applicability. The requirements of Section 915 shall apply to all buildings and structures meeting the specifications set forth in 915.3 for which construction is completed after December 31, 2007 and to all expansions, alterations and modifications to existing buildings and structures meeting the specifications set forth in Section 915.3 completed after December 31, 2007 which require City of Tolleson approval.

915.3 Buildings and Structures Requiring Firefighter Air System. A Firefighter Air System shall be installed in buildings and structures located in the City of Tolleson meeting either of the following criteria:

(1) Buildings and structures commencing on the third (3rd) floor above grade level and every other floor above grade level thereafter; or

(2) Commencing on the second (2nd) floor below grade level and every other floor below grade level thereafter.

915.4 Enclosure Location

915.4.1 A fire department air connection shall be installed on the exterior of the building or within a remote monument at the exterior of the building 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 panel shall be within fifty (50) feet of the building on an approved roadway or driveway, or other location approved by the Fire Chief or fire code official. The enclosure shall be visible and accessible on approach to the structure.

915.4.2 The exterior fire department connection panel shall be protected from vehicle traffic in accordance with this code and shall remain locked at all times, unless in use by fire department personnel. The key for the locking mechanism shall be stored in an approved key box installed at a location approved by the fire code official. The interior remote fire department air fill panels shall be located in stairwells commencing on the third (3rd) floor and every other floor thereafter. The panel shall contain all necessary equipment to allow firefighters to safely replenish a minimum of two (2) breathing air cylinders simultaneously.

915.4.3 Enclosures shall be marked "FIREFIGHTER AIR SYSTEM" on securely attached metal or plastic engraved plate. The lettering shall be in a color that contrasts with the enclosure front and in letters that are a minimum of two (2) inches in height with a 3/8-inch brush stroke.

915.5 Testing Requirements. When fabrication, assembly and installation of the Firefighter Air System are complete, the entire system shall be tested in accordance with the following:

915.5.1 The system shall be inspected for leaks by pneumatically pressure testing the system to five thousand (5,000) pounds per square inch (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.

915.5.2 Upon successful completion of the five thousand (5000) psi pressure testing, the entire system shall be pneumatically pressure tested to one and one-half (1½) times the working pressure (7,500 psi) using oil free, dry air for at least one (1) hour. All leaks or failure to

maintain 7,500 psi pneumatic pressure shall be documented by the system installer and forwarded to the system manufacturer for inspection, repair and/or replacement.

915.5.3 Upon successful completion of the 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 5,000 psi working pressure shall be documented by the system installer and forwarded to the system manufacturer for inspection, repair and/or replacement.

915.5.4 A test of the low pressure-monitoring switch shall be performed. Each air panel fill station shall be tested for compatibility with the fire department's SCBA Rapid Intervention Crew Universal Air Connection-RIC UAC.

915.5.5 System Acceptance and Certification. Prior to the final acceptance of the Firefighter Air System, the building owner shall provide for the testing and certification of the system. This shall include: verifying the system's compatibility with the fire department's SCBA apparatus, the system's ability to maintain 5,000 psi working pressure, the operability of the low pressure monitoring switch and that the system's air quality complies with this section. Prior to final acceptance, the building owner shall provide the fire department with written verification of a testing and certification contract.

915.6 Inspection.

915.6.1 The property owner shall be responsible for annual maintenance and testing of the Firefighter Air system. An air sample will be taken annually and certified as breathing air by a certified and licensed laboratory. Records shall be maintained on-site for a period of three years and made available to fire department officials upon request.

Chapter 50 Hazardous Materials - General Provisions

5003.2.2.1 Design and construction.

(2) Piping and tubing shall be identified to indicate the material conveyed and the direction of flow. Pipe labels shall be provided at a maximum spacing of 20 feet at each change of direction and on both sides of walls or floor/ceiling penetrations.

(7) Pressure test of piping constructed of non-metallic material used to convey hazardous materials shall be limited to hydrostatic tests. Pneumatic pressure testing of non-metallic piping shall not be permitted.

5004.9 Emergency alarm.

An approved manual emergency alarm system shall be provided in buildings, rooms or spaces used for storage of hazardous materials. The emergency alarm system shall be designed using the manual fire alarm requirements of the National Fire Alarm Code, NFPA 72.

Emergency alarm initiating devices shall be installed outside of each interior exit or exit access door of the storage buildings, rooms or areas. Activation of an emergency alarm-initiating device shall sound an audible signal distinctly different than that of the fire alarm signal. Emergency alarm notification devices shall be yellow or amber in color.

Chapter 53, Compressed Gases

5301.1 Scope

Storage, use and handling of compressed gases in compressed gas containers, cylinders, tanks and systems shall comply with this chapter, and National Fire Protection Association standard, NFPA 55, Compressed Gases and Cryogenic Fluids, 2010 edition. Where there is a conflict between the International Fire Code, 2012 edition and NFPA 55, 2010 edition, the more restrictive provision shall apply. Partially full compressed gas containers, cylinders or tanks containing residual gases shall be considered as full for the purpose of the controls required.

5302.1 Definitions

Point of Use

5303.16.10.1 Insulated Liquid Carbon Dioxide Systems

(A) Gas detection shall be provided at each point of use whether the cylinder vessel, and/or container are located inside or outside the structure. Basements and/or subterranean spaces that could be physically entered, and which contain CO₂ process lines, shall have gas detection.

(B) When a CO₂ gas detection device reaches 15,000 ppm a local warning/supervisory alarm shall sound at a normally occupied location, and/or transmit a supervisory signal to a supervising station if system is monitored offsite.

(C) When CO₂ gas detection device reaches 30,000 ppm a general evacuation signal shall sound for the occupancy and transmit a gas specific alarm to a supervisory station if system is monitored offsite.

(D) Where there are less than two 50 lb. DOT approved cylinders stored and/or used inside or outside the structure, per system, gas detection and alarm systems shall not be required.

Chapter 55 Cryogenic Fluids

5501.1 Scope

Storage, use and handling of cryogenic fluids shall comply with this chapter and National Fire Protection standard NFPA 55, Compressed Gases and Cryogenic Fluids Code, 2010 edition. Where there is a conflict between the International Fire Code, 2012 edition and NFPA 55, 2010 edition, the more restrictive provision shall apply. Cryogenic fluids shall also comply with Chapter 50 requirements. Partially full containers containing residual cryogenic fluids shall be considered as full for the purposes of the controls required.

(13) The National Fire Code, 2012 Edition, as published by the National Fire Protection Association, with amendments and the following exceptions:

- (a) 301: Merchant Vessels;
- (b) 302: Pleasure and Commercial Motor Craft;
- (c) 303: Marinas and Boatyards;
- (d) 306: Control of Gas Hazards on Vessels;
- (e) 307: Marine Terminals, Piers, and Wharves;
- (f) 312: Fire Protection of Vessels during Construction, Repair and Lay-Up;
- (g) 402: Aircraft Rescue and Fire Fighting Operations;
- (h) 403: Aircraft Rescue and Fire Fighting Services at Airports;
- (i) 405: Aircraft Rescue and Fire Fighting Services;
- (j) 407: Aircraft Fuel Servicing;
- (k) 408: Aircraft Hand Portable Fire Extinguishers;
- (l) 409: Aircraft Hangers;
- (m) 410: Aircraft Maintenance;
- (n) 412: Evaluating Aircraft Rescue and Fire Fighting Foam Equipment;
- (o) 414: Aircraft Rescue and Fire Fighting Vehicles;
- (p) 415: Airport Terminal Buildings, Fueling Ramp Drainage, Loading Walkways;
- (q) 804: Fire Protection for Advanced Light Water Reactor Electric Generating;
- (r) 851: Hydroelectric Generating Plants;

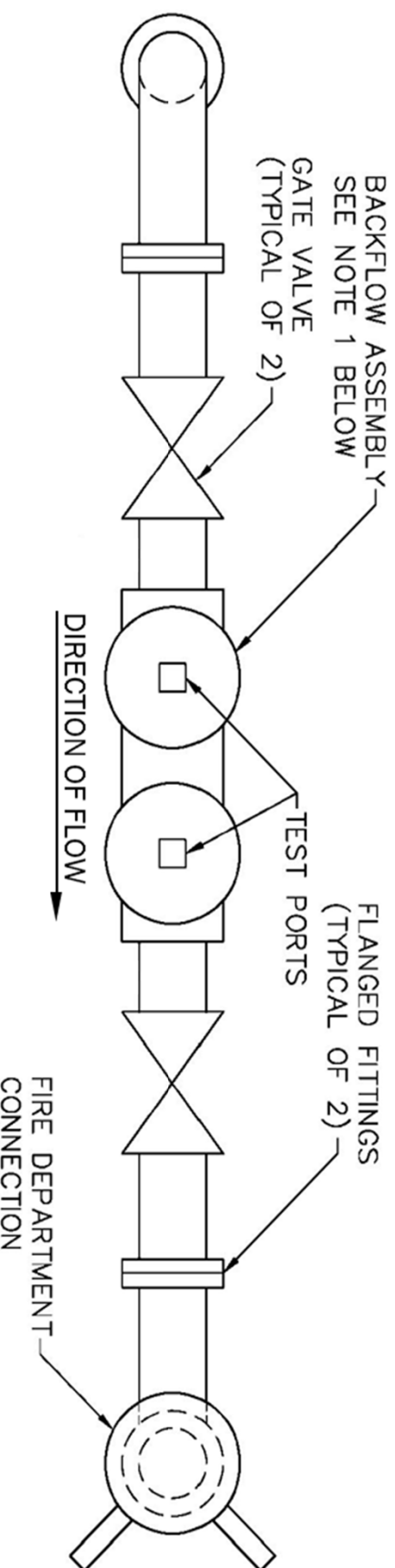
(s) 1720: Volunteer Fire Departments, Organization and Deployment;

(t) 1925: Marine Fire Fighting Vessels;

(14) The Tolleson Fire Department Emergency Access Regulation, 2004 Edition, as published by the Tolleson Fire Department;

(15) The City of Tolleson Automatic Sprinkler System Ordinance, dated May 10, 2004, as published by the Tolleson Fire Department;

(16) The City of Tolleson Standard Detail Fireline Backflow Prevention Assembly, dated November 17, 2014.



PLAN VIEW
NOT TO SCALE

NOTES:

1. DETAIL SHALL BE IN ACCORDANCE WITH CITY OF SCOTTSDALE, ARIZONA DETAIL #2351.
2. PAINT TO MATCH BUILDING.
3. BACKFLOW SHALL BE EQUIPPED WITH A TAMPER SWITCH WIRED TO FIRE CONTROL PANEL INSIDE BUILDING.
4. FDC PORTS TO BE EQUIPPED WITH KNOX 2.5" LOCKING FDC PLUG WITH SWIVEL-GUARD MODEL NO. 3041.

<p>CITY OF TOLLESON ARIZONA</p>	<p>FIRELINE BACKFLOW PREVENTION ASSEMBLY</p>
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