ORDINANCE NO. 2750 NEW SERIES

AN ORDINANCE OF THE COUNCIL OF THE CITY OF GLENDALE, MARICOPA COUNTY, ARIZONA, AMENDING GLENDALE CITY CODE, CHAPTER 16 (FIRE PREVENTION AND PROTECTION), ARTICLE II (TECHNICAL STANDARDS) AND ARTICLE III (SPRINKLER SYSTEMS); AND SETTING FORTH AN EFFECTIVE DATE.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GLENDALE as follows:

SECTION 1. That Glendale City Code Chapter 16, Article II is hereby deleted in its entirety and a new Article II is hereby adopted and shall read as follows:

ARTICLE II. TECHNICAL CODES

Sec. 16-16. Adopted by reference; violation.

(a) The following publication(s), three (3) copies of which are on file in the office of the City Clerk, are hereby adopted by reference as if set out at length in this Code.

(1) *2009 International Fire Code*, as published by the International Code Council, Inc.

(2) *2009 International Fire Code,* Appendix Chapters B, C, D, F, H, I and J; these chapters may be use as acceptable alternate methods and optional considerations or requirements as determined or approved by the Fire Code Official.

(b) Any person violating any of the provisions of the publications adopted in subsection (a) shall be guilty of a misdemeanor.

Sec. 16-17. Amendments to the 2009 International Fire Code.

The 2009 International Fire Code is hereby amended in the following respects:

Section 101.1 is hereby amended to read as follows:

101.1 Title. This Code shall be known as the Glendale Fire Code, may be cited as such and will be referred to herein as "this Code".

Section 104.10 is hereby amended to read as follows:

> **104.10 Investigations.** The fire department shall have the authority to investigate or cause to be investigated the cause, origin and circumstances of any fire, explosion or other hazardous condition occurring in the jurisdiction involving loss of life or injury to persons or destruction or damage to property. If it appears that such incident is of suspicious origin, they are authorized to take charge of all physical evidence relating to the cause of the incident and are authorized to pursue the investigation to its conclusion. Information that could be related to trade secrets or processes shall not be made part of the public record unless directed by a court of law.

Section 104.12 is hereby added to read as follows:

> **104.12 Fees.** The Fire Chief is authorized to establish and collect, with the approval of the City Council, any amount established by resolution or pursuant to the Code of the City of Glendale Section 2-3, fees for any or all inspections or operational services authorized by the Code of the City of Glendale or the Glendale Fire Code. Permit and inspection fees and other operational fees of the Fire Department may be determined by the Fire Chief or his or her designee and established by resolution of the City Council or pursuant to Glendale City Code Sec. 2-3.

Section 105.1.4 is hereby added to read as follows:

> **105.1.4 Operating without a permit.** Any person, company, firm, corporation or entity operating in violation of Section 105.6 or 105.7 shall be subject to triple the permit fees, as established by council resolution. All operations and/or work shall cease until the required permits are obtained.

Section 105.6.27 is hereby amended by deleting item 2.

Section 105.7.15 is hereby added to read as follows:

> **105.7.15 Fire department breathing air system.** A construction permit is required to install a fire department breathing air system.

Section 105.7.16 is hereby added to read as follows:

> **105.7.16 Security gates.** A construction permit is required for the installation or modification of security gates across fire apparatus access roads and at pedestrian gates within gated communities and where required by the Fire Code Official.

Section 108 is hereby deleted in its entirety.

Section 109.3 is hereby amended to read as follows:

> **109.3 Violation penalties.** Persons 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 a Class 1 misdemeanor and punished as Class 1 misdemeanor under state law. Each day any violation of any provision of this Code or of any ordinance shall continue shall constitute a separate offense.

Section 111.4 is hereby amended to read as follows:

> **111.4 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 assessed a fee in accordance with the fees established by council resolution for operating without a permit.

Section 113.6 is hereby added to read as follows:

> **113.6 Inspection fees.** The Fire Code Official or his or her designee shall charge an inspection fee for each fire code compliance inspection. The fee amount shall be in accordance with the fee schedule established by council resolution.

Section 503.1 is hereby amended to read as follows:

> **503.1 Where required.** Fire apparatus access roads shall be provided and maintained in accordance with Sections 503.1.1 through 503.1.6.

Section 503.1.1 is hereby amended to read as follows:

> **503.1.1 Buildings and facilities.** Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45,720 mm) of all portions of the facility and all portions of the exterior wall of the first story and to the center of the furthest room on the second floor of the building as measured by an approved route.
> *Exception:* The Fire Code Official is authorized to modify the dimension of 150 feet (45,720 mm) where:
> 1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.

2. Fire apparatus access roads cannot be installed due to location on property, topography, waterways, non-negotiable grades or other similar conditions, and an approved alternative means of fire protection is provided.

Section 503.1.4 is hereby added to read as follows:

503.1.4 Aerial fire apparatus access roads. Where required. Buildings or portions of buildings or facilities exceeding 30 feet (9,144 mm) in height above the lowest level of fire department vehicle access shall be provided with approved fire apparatus access roads capable of accommodating fire department aerial apparatus. Overhead utility and power lines shall not be located within the aerial fire apparatus access roadway.

Section 503.1.5 is hereby added to read as follows:

503.1.5 Aerial fire apparatus access roads. Width. Fire apparatus access roads shall have a minimum unobstructed width of 26 feet (7,925 mm) in the immediate vicinity of any building or portion of building more than 30 feet (9,144 mm) in height.

Section 503.1.6 is hereby added to read as follows:

503.1.6 Aerial fire apparatus access roads. Proximity to buildings. At least one of the required access routes meeting this condition shall be located within a minimum of 15 feet (4,572 mm) and a maximum of 30 feet (9,144 mm) from the building, and shall be positioned parallel to one entire side of the building.

Section 503.2.5 is hereby amended by adding the following:

Dead-end fire apparatus access roads located between buildings shall have a 10-foot (3,048 mm) setback from the edge of the access road to the structures on each side of the road.

Section 503.4 is hereby amended to read as follows:

503.4 Obstruction of fire apparatus access roads. Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. For the purposes of this section, parking is defined as stopped vehicles with no licensed driver occupying the driver's position. The minimum widths and clearances established in Section 503 shall be maintained at all times. The person in possession of the premises shall be responsible to ensure that fire apparatus access roadways are unobstructed at all times.

Section 503.6 is hereby amended by adding the following:

Gates across fire apparatus access roads at gated community main entrances and where required by the Fire Code Official shall be electric and shall be provided with approved preemption controls, a Knox key switch and a manual release. Manual or electric gates at location other than the main entrance to gated communities shall be equipped with a Knox key switch and manual release or a Knox lock as applicable.

Section 505.3 is hereby added to read as follows:

505.3 Graphic directories. Approved illuminated, all weather graphic directories shall be provided at all driveway entrances for every multiple dwelling development, mobile home park and commercial developments as required by the Fire Code Official. Such directories shall conform to the Glendale Fire Department standard for graphic directories.

Section 507.5.1 is hereby amended to read as follows:

507.5.1 Where required. Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 150 feet (45,720 mm) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required flow shall be provided where required by the Fire Code Official.

Section 511 is hereby added to read as follows:

Section 511
Fire Department Breathing Air System

511.1 Fire department breathing air system. A fire department breathing air system shall be provided in all buildings as follows and shall be designed and installed in accordance with nationally recognized standards and shall be approved by the Fire Code Official:

1. In buildings with an occupied floor located more than 75 feet (22,860 mm) above the lowest level of fire department vehicle access.
2. In buildings with a basement that is more than 2 floors below grade with an area greater than 10,000 square feet (929 m^2).
3. In underground buildings with an area greater than 10,000 square feet (929 m^2) that are more than 30 feet (9,144 mm) below grade.

511.1.1 Permit. Permits shall be required as set forth in Section 105.7.

Section 605.11 is hereby added to read as follows:

605.11 Electrical service shut off access. Where electrical service shut off controls are located inside a building, a door providing direct access from the exterior to the room containing shut off controls shall be provided.

Section 806.1.1 is hereby amended to read as follows:

806.1.1 Restricted occupancies. Natural cut trees shall be prohibited in Group A, E, I-1, I-2, I-3, I-4, M, R-1, R-2, R-3 and R-4 occupancies.
Exceptions:
1 Trees shall be allowed in Groups A, E, M, R-1, R-2 and R-3 protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.
2 Trees shall be allowed within dwelling units in Group R-2 occupancies.

Section 901.4.2 is hereby amended by adding the following:

Non-required systems providing partial protection shall not be recognized for exceptions or reductions permitted by other requirements of this Code or the current edition of the *International Building Code* adopted by the City of Glendale.
Non-required systems providing complete protection that take advantage of any exception or reduction permitted by other requirements of this Code or the current edition of the *International Building Code* adopted by the City of Glendale shall become required systems.

Section 903.2.13 is hereby added to read as follows:

903.2.13 New buildings with unknown occupancy type or hazard classification. In new buildings constructed with an interior ceiling/deck height exceeding 20 feet (6,096 mm) and the occupancy or hazard classification is unknown, the minimum fire sprinkler design density criteria shall be .495/2000 square feet.

Section 903.3.5 is hereby amended to read as follows:

903.3.5 Water supplies. Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in section 903.3.1. Additionally, the water data for hydraulic calculations shall be based upon 90 percent of the available water supply as determined by flow test information. The potable water supply shall be protected against backflow in accordance with this section and the current edition of the *Uniform Plumbing Code* adopted by the City of Glendale. Backflow prevention devices shall be listed for use with fire protection systems and shall be approved by the Fire Code Official.

Section 903.3.8 is hereby added to read as follows:

> **903.3.8 Access to fire sprinkler risers.** Fire sprinkler risers shall be installed indoors and an exterior door leading directly into the room containing the fire sprinkler riser and shut off controls shall be provided.
> *Exception:* An exterior door is not required when an approved alternate and accessible method of controlling the sprinkler water supply from the outside of the structure is provided.

Section 904.11.6.4 is hereby added to read as follows:

> **904.11.6.4 Existing automatic fire extinguishing systems.** Where changes in cooking media, positioning of cooking equipment or replacement of cooking equipment occur in commercial cooking systems, the automatic fire extinguishing system shall be required to comply with current code and the applicable provisions of Sections 904.11 through 904.11.4.1.

Section 1410.3 is hereby added to read as follows:

> **1410.3 Access road signs.** During construction, approved signs shall be located to direct emergency responders in and through construction sites.

Section 2404.13 is hereby amended to read as follows:

> **2404.13 Fire protection equipment.** Fire hose lines, water supplies and other auxiliary fire equipment shall be maintained at the site in such numbers and sizes as required by the Fire Code Official. Where the installation of tents and membrane structures are permanent; an approved automatic fire sprinkler system shall be required in accordance with Section 903.2 and the current edition of the *International Building Code* adopted by the City of Glendale.

Section 3204.3.1.1.3 is hereby amended by adding the following:

> Storage of flammable cryogenic fluids in stationary containers outside of buildings is prohibited within the limits established by the Zoning Ordinance of the City of Glendale, Arizona.

Section 3404.2.9.6.1 is hereby amended to read as follows:

> **3404.2.9.6.1 Locations where above-ground tanks are prohibited.** Storage of Class I and II liquids in above-ground tanks outside of buildings is prohibited within the limits established by the Zoning Ordinance of the City of Glendale, Arizona.

Section 3406.2.4.4 is hereby amended to read as follows:

> **3406.2.4.4 Locations where above-ground tanks are prohibited.** The storage of Class I and II liquids in above-ground tanks is prohibited within the limits established by the Zoning Ordinance of the City of Glendale, Arizona.

Section 3804.2 is hereby amended to read as follows:

> **3804.2 Maximum capacity within established limits.** Within the limits established by law restricting the storage of liquefied petroleum gas for the protection of heavily populated or congested areas, the aggregate capacity of any one installation (permanent or temporary) shall not exceed a water capacity of 2,000 gallons (7570 L). Such limits are hereby established by the Zoning Ordinance of the City of Glendale, Arizona.
> *Exception:* In particular installations, this capacity limit shall be determined by the Fire Code Official, after consideration of special features such as topographical conditions, nature of occupancy, and proximity to buildings, capacity of proposed containers, degree of fire protection to be provided and capabilities of the local fire department.

Sec. 16-18. Establishment of limits in which storage of liquefied petroleum gases is restricted.

The limits referred to in chapter 38 of the International Fire Code in which storage is restricted are established as being all areas except M-1 and M-2 as shown in the Zoning Ordinance of the City of Glendale, Arizona.

Sec. 16-19. Establishment of limits of districts in which storage of explosive and blasting agents is prohibited.

The limits referred to in chapter 33 of the International Fire Code in which storage of explosives and blasting agents is prohibited are established as being all areas except M-1 and M-2 as shown in the Zoning Ordinance of the City of Glendale, Arizona.

Sec. 16-20. Minimum qualifications for fire protection system design professionals. (Includes: fire alarm and fire sprinkler systems)

Construction documents (shop drawings) for fire protection systems shall be prepared or reviewed and stamped by a design professional with a minimum of NICET level III or equivalent certification.

Sec. 16-21. Minimum qualifications for fire protection system installation, maintenance and repair professionals.

The installation, maintenance and repair of fire protection systems shall be performed by a competent professional with a current license (appropriate for the work being performed) issued by the Arizona Registrar of Contractors.

Sec. 16-22 — 16-50. Reserved.

SECTION 2. That Glendale City Code Chapter 16, Article III is hereby deleted in its entirety and a new Article III is hereby adopted and shall read as follows:

ARTICLE III. SPRINKLER SYSTEMS

Sec. 16-51. Definitions.

(a) Terms defined in other codes; where words, terms and phrases not defined in this Code and are defined in other currently adopted Codes, such words, terms and phrases shall have the meaning ascribed to them in those codes.

(b) In addition, the following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Approval: Refers to approval by the Fire Code Official as the result of an official code interpretation or code modification request or pursuant to investigation and tests or by reason of accepted principles or tests by national authorities, technical or scientific organizations.

Approved: Acceptable to the Fire Code Official.

This Code: Refers to the current adopted *International Fire Code*, amendments and ordinances.

Sec. 16-52. General sprinkler system requirements.

In addition to the requirements of this Code, an approved automatic sprinkler system shall be required as follows:

(a) Throughout the entire building of all newly constructed commercial and residential structures. Exception:

1. Where specifically omitted or otherwise not required in accordance with this Code.

2. In one and two family dwellings and townhomes regulated by the *International Residential Code*.

(b) Throughout all structures hereafter moved into or within the jurisdiction that do not comply with fire apparatus access and water supply requirements in accordance with this Code.

(c) Existing structures that are modified, expanded, remodeled, renovated or change occupancy classification, shall be required to be provided with automatic fire sprinkler protection when required by the current adopted *International Existing Building Code*. If automatic fire sprinkler protection is required, the installation of the automatic fire sprinkler system shall comply with this Code.

Sec. 16-53. Permissible sprinkler omissions.

(a) Sprinkler systems shall be designed on the basis of complete coverage with no unprotected areas. However, sprinkler coverage may be omitted from certain areas where the application of water may constitute a serious life or fire hazard. Additionally, sprinkler coverage may be permitted to be omitted as provided for in NFPA 13, 13R and 13D with the approval of the Fire Code Official.

(b) Unless the use of the facility otherwise requires automatic fire sprinkler protection, automatic fire sprinklers shall not be required in the following areas:

- Detached non-combustible Group U carports and garages that do not exceed 5,000 square feet (465 m^2).

- Detached non-combustible canopies that do not exceed 5,000 square feet (465 m^2) and used exclusively as vehicle washing facilities or vehicle fuel dispensing stations.

- Shade canopies that do not exceed 5,000 square feet (465 m^2) located not closer than 10 feet (1,524 mm) to any building, property line or other shade canopies and used for shading vehicles for sale at dealerships, playground equipment, outdoor dining areas without cooking and other areas as approved by the Fire Code Official.

- Exterior roofs, overhangs or canopies of type I, II or III construction with no combustible storage beneath or those designed solely as pedestrian shade.

- Detached special use buildings or structures that do not exceed 600 square feet (56 m^2) as approved by the Fire Code Official.

  Note: For the purpose of this section, "detached" is defined as "a separate single-story building or structure, without a basement or crawl space and located an approved distance from all structures."

(c) In addition to any automatic sprinkler system required by this Code, other approved automatic fire protection systems may be installed to protect special hazards. These additional systems shall not substitute for the required automatic sprinkler system without approval of the Fire Code Official.

Sec. 16-54. Fire department access.

(a) Where approved automatic sprinkler systems are installed throughout all areas and on every floor of exiting buildings hereafter moved into or within the jurisdiction, fire apparatus access roads need only be provided to within 200 feet (60,960 mm) of any point on the grade floor level exterior walls; when approved by the Fire Code Official.

(b) The fire apparatus access road distance required by this section shall be measured along approved pathways and corridors provided for pedestrian traffic.

SECTION 3. That the provisions of this ordinance shall become effective thirty (30) days after passage by the Glendale City Council.

PASSED, ADOPTED AND APPROVED by the Mayor and Council of the City of Glendale, Maricopa County, Arizona, this 9th day of November, 2010.

MAYOR

ATTEST:

City Clerk (SEAL)

APPROVED AS TO FORM:

City Attorney

REVIEWED BY:

City Manager