



## RESOLUTION NO.

### OF THE BOARD OF SUPERVISORS OF THE COUNTY OF EL DORADO

(REPEALING RESOLUTION NO. 43-2011)

**WHEREAS**, the California Code of Regulations, Title 24, Part 9, the California Fire Code, is updated by the State every three years; and,

**WHEREAS**, the 2013 California Fire Code became effective on January 1, 2014; and,

**WHEREAS**, local jurisdictions may establish more restrictive building standards reasonably necessary because of local climatic, geological or topographical conditions; and,

**WHEREAS**, the California Code of Regulations, Health and Safety Code, Division 12, Part 2, Chapter 1, Article 2, Section 13146, assigns responsibility for enforcement of fire safety regulations to the local level and grants authority to delegate enforcement to the chief building official, or his or her authorized representative, or to the chief of the fire protection district, or his or her representative; and,

**WHEREAS**, enforcement of the Fire Code in the County of El Dorado has historically been shared by the County Building Official and the local Fire Agencies according to the knowledge and skills each possesses; and,

**WHEREAS**, on December 12, 2013, the Board of Directors of the El Dorado Hills County Water District (Fire Department) adopted Ordinance No. 36 which adopted the 2013 California Fire Code with amendments the District deemed necessary to deal with local climate, geological or topographical conditions.

**NOW, THEREFORE, BE IT RESOLVED**, that the Board of Supervisors of the County of El Dorado ratifies the following building code Amendments to the California Fire Code adopted by El Dorado Hills County Water District (Fire Department):

These changes include amendments and additions to the California Fire Code in the following sections:

105.6.26-27, 109.4, 111.4, 113.6, 113.6.1, 507.5.1, 604.1, 903.2, 903.2a, 903.2b, 903.2.1.1, 903.2.1.2, 903.2.1.3, 903.2.1.4, 903.2.2.1, 903.2.3, 903.2.4, 903.2.7, 903.2.9, 903.2.10, 907.2a, 907.2b, 907.2c, 5601.2, 5608.2, Table 6104.3 Footnote "d", 6112.1, 6112.2, 6112.3, 6112.4, 6113.1, Appendix B105.2.

These changes also include the following International Fire Code Sections and Appendices not adopted by the State of California: 101.1 thru 101.5, 102.6 thru 102.8, 102.10 thru 102.12, 103.1 thru 104.1, 104.3 thru 104.4, 104.6 thru 104.6.4, 104.8, thru 104.9.2, 104.10.1 thru 104.11.3, 105.2.3, 105.3.1 thru 105.3.2, 105.6.9, Table 105.6.10, 105.6.12, 105.6.16 thru 105.6.19, 105.6.27 thru 105.6.42, 105.6.44 thru 105.6.45, 105.7.15 thru 105.7.16, 106.1, 107.1 thru 108.3, 109.3.2 thru 109.4.1, 112.1, 113.1 thru 115.5, 303.1-303.9, 305.1-305.4, 307.1, thru 307.5, 308.1 thru 308.5, 408.1 thru 408.11.3, 503 F, J, and K, based on the 2012 edition of the International Fire Code as published by the International Code Council.

**BE IT FURTHER RESOLVED** that the Board of Supervisors of the County of El Dorado delegates the enforcement of the Building Standards of the 2013 Fire Code for one and two family dwellings, and accessory structures thereto, to the County Building Official, or his or her authorized representative, and for all other fire code enforcement to the Chief of the El Dorado Hills County Water District (Fire Department) or his or her authorized representative, for the territory served by that Department.

PASSED AND ADOPTED by the Board of Supervisors of the County of El Dorado at a regular meeting of said Board, held the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, by the following vote of said Board:

Attest:  
James S. Mitrisin  
Clerk of the Board of Supervisors

Ayes:  
Noes:  
Absent:

By: \_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_ Chair, Board of Supervisors

# EL DORADO HILLS COUNTY WATER DISTRICT

## ORDINANCE No. 36

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**BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE EL DORADO HILLS COUNTY WATER DISTRICT AS FOLLOWS:**

**AN ORDINANCE OF THE EL DORADO HILLS COUNTY WATER DISTRICT ADOPTING THE 2013 EDITION OF THE CALIFORNIA FIRE CODE, BASED UPON THE 2012 EDITION OF THE INTERNATIONAL FIRE CODE, REGULATING AND GOVERNING THE SAFEGUARDING OF LIFE AND PROPERTY FROM FIRE AND EXPLOSION HAZARDS ARISING FROM THE STORAGE, HANDLING AND USE OF HAZARDOUS SUBSTANCES, MATERIALS AND DEVICES, AND FROM CONDITIONS HAZARDOUS TO LIFE OR PROPERTY IN THE OCCUPANCY OF BUILDINGS AND PREMISES IN THE EL DORADO HILLS COUNTY WATER DISTRICT; PROVIDING FOR THE ISSUANCE OF PERMITS AND COLLECTION OF FEES THEREFORE; REPEALING ORDINANCE NO. 35 OF THE EL DORADO HILLS COUNTY WATER DISTRICT AND ALL OTHER ORDINANCES AND PARTS OF THE ORDINANCES IN CONFLICT THEREWITH.**

Be it ordained by the Board of Directors of the **El Dorado Hills County Water District**, also known as the El Dorado Hills Fire Department:

**Section 1: FINDINGS:**

**Section 2: ADOPTION OF CODE:**

**Section 3: CALIFORNIA FIRE CODE, AMENDMENTS:**

**Section 4: ESTABLISHING LIMITS:**

**Section 5: CONFLICT**

**Section 6: SEVERABILITY**

**Section 7: EFFECTIVE DATE AND PUBLICATION:**

### **SECTION 1: FINDINGS:**

The El Dorado Hills County Water District makes certain changes (listed below) to the California Fire Code, 2013 Edition, pursuant to Health and Safety Code Section 13869.7, 17958.7 and 18941.5 during this code adoption process. Such changes are necessary because of local climatic, geological and/or topographic conditions. The El Dorado Hills County Water District has adopted, pursuant to Section 18941.5 of the California Health and Safety Code, the findings of facts relative to these conditions by Resolution 36 of the El Dorado Hills Fire Department dated November 21 , 2013.

These changes include amendments and additions to the California Fire Code in the following sections: 105.6.26-27, 109.4, 111.4, 113.6, 113.6.1, 503, 507.5.1, 604.1, 903.2, 903.2a, 903.2b, 903.2.1.1, 903.2.1.2, 903.2.1.3, 903.2.1.4, 903.2.2.1, 903.2.3, 903.2.4, 903.2.7, 903.2.9, 903.2.10, 907.2a, 907.2b, 907.2c, 5601.2, 5608.2, Table 6104.3 Footnote "d", 6112.1, 6112.2, 6112.3, 6112.4, 6113.1, Appendix B105.2. These changes are itemized in SECTION 2: ADOPTION OF CODE of this ordinance.

These changes also include the following International Fire Code Sections and Appendices not adopted by the State of California; 101.1 thru 101.5, 102.6 thru 102.8, 102.10 thru 102.12, 103.1 thru 104.1, 104.3 thru 104.4, 104.6 thru 104.6.4, 104.8, thru 104.9.2, 104.10.1 thru 104.11.3, 105.2.3, 105.3.1 thru 105.3.2, 105.6.9, Table 105.6.10, 105.6.12, 105.6.16 thru 105.6.19, 105.6.27 thru 105.6.42, 105.6.44 thru 105.6.45, 105.7.15 thru 105.7.16, 106.1, 107.1 thru 108.3, 109.3.2 thru 109.4.1, 112.1, 113.1 thru 115.5, 303.1-303.9, 305.1-305.4, 307.1, thru 307.5, 308.1 thru 308.5, 408.1 thru 408.11.3, 503 F, J, and K, based on the 2012 edition of the International Fire Code as published by the International Code Council.

### **SECTION 2: ADOPTION OF CODE:**

That a certain document, three (3) copies of which are on file in the office of the Secretary of the Board of Directors of the EDHCWD (Fire Department), being marked and designated as the California Fire Code, 2013 edition, in its entirety, and the following International Fire Code Sections and Appendices not adopted by the State of California; 101.1 thru 101.5, 102.6 thru 102.8, 102.10 thru 102.12, 103.1 thru 104.1, 104.3 thru 104.4, 104.6 thru 104.6.4, 104.8, thru 104.9.2, 104.10.1 thru 104.11.3, 105.2.3, 105.3.1 thru 105.3.2, 105.6.9, Table 105.6.10, 105.6.12, 105.6.16 thru 105.6.19, 105.6.27 thru 105.6.42, 105.6.44 thru 105.6.45, 105.7.15 thru 105.7.16, 106.1, 107.1 thru 108.3, 109.3.2 thru 109.4.1, 112.1, 113.1 thru 115.5, 303.1 thru 303.9, 305.1 thru 305.4, 307.1, thru 307.5, 308.1 thru 308.5, 408.1 thru 408.11.3, 503, and Appendix F, J, and K, based on the 2012 edition of the International Fire Code as published by the International Code Council and the 2013 California Fire Code, be and is hereby adopted as the Fire Code of the El Dorado Hills County Water District, in the State of California regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the occupancy of buildings and premises as herein provided; providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, penalties, conditions and terms of said Fire Code on file in the office of the El Dorado Hills County Water District are hereby referred to, adopted, and made a part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes, if any, prescribed in Section 3 of this ordinance.

### **SECTION 3: CALIFORNIA FIRE CODE, AMENDMENTS:**

**The following Sections are hereby amended or added:**

#### **California Fire Code, Chapter 1 Amendments – Scope and Administration:**

##### **Section 105 - Permits**

**Section 105.6.26 is amended as follows: LP Gas.**

Section 105.6.27 of Chapter 1 of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:

**105.6.27 - LP Gas**

1. Storage and use of LP-gas.

**Exception:** A permit is not required for individual containers with a ~~500~~ 100 gallon water capacity or less serving occupancies in Group R-3.

**Section 109 - Violations**

**Section 109.4 is amended as follows: Violation penalties.**

Section 109.4 of Chapter 1 of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:

**Section 109.4 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 guilty of a misdemeanor, punishable by a fine of not more than \$1000.00 and/or by imprisonment not exceeding 6 months, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense. (Health & Safety Code Section 13145 and 17995).

**Section 111 – Stop Work Orders**

**Section 111.4 is amended as follows: Failure to comply.**

Section 111.4 of Chapter 1 of the Fire Code of the El Dorado Hills County Water District is 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 liable to a fine of not less than \$500 or not more than \$1,000. (Health & Safety Code Section 13145 and 17995).

**Section 113.6 and 113.6.1 are added as follows: Fees.**

Sections 113.6 and 113.6.1 of Chapter 1 of the Fire Code of the El Dorado Hills County Water District are added to read as follows:

**113.6 Permit, Plan Review and Inspection Fees.** A schedule of fees adopted by the Fire District Board of Directors for Plan Review, Inspections and the issuance of Permits by the Fire District may be found in the most current El Dorado Hills County Water District fee schedule (Health & Safety

Code 17951).

**113.6.1 Cost Recovery Fees.** Fire service fees may be charged to any person, firm, corporation or business that through negligence, violation of the law, or as a result of carelessness, is responsible for the cause of the Fire District to respond to the scene of an incident. A district board may charge a fee to cover the cost of any service which the district provides or the cost of enforcing any regulation for which the fee is charged. (Health and Safety Code 13916). The fee shall not exceed the actual cost of suppressing the fire and/or responding to the scene of an incident.

## **California Fire Code, Chapter 5 Amendments – Fire Service Features**

### **Section 503 - Fire Apparatus Access Roads**

Section 503 of the Fire Code of the El Dorado Hills County Water District is adopted and 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 503.1.3.

##### **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 walls of the first story of the building as measured by an *approved* route around the exterior of the building or facility.

**Exception:** The *fire code official* is authorized to increase 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 because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an *approved* alternative means of fire protection is provided.
3. There are not more than two Group R-3 or Group U occupancies.

##### **503.1.2 Additional access.**

The *fire code official* is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.

##### **503.1.3 High-piled storage.**

Fire department vehicle access to buildings used for *high-piled combustible storage* shall comply with the applicable provisions of Chapter 32.

### **503.2 Specifications.**

All fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.8.

*[California Code of Regulations, Title 19, Division 1, §3.05(a)] Fire Department Access and Egress. (Roads)*

*(a) Roads. Required access roads from every building to a public street shall be all-weather hard-surfaced (suitable for use by fire apparatus) right-of-way not less than 20 feet (6096 mm) in width. Such right-of-way shall be unobstructed and maintained only as access to the public street.*

*Exception: The enforcing agency may waive or modify this requirement if in his opinion such all-weather hard surfaced condition is not necessary in the interest of public safety and welfare.*

#### **503.2.1 Dimensions.**

For one and two family dwelling units (R3) applications, fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm) than 18 feet, plus one foot shoulder on each side, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm). This conforms with Title 14 SRA Fire Safe Regulations as adopted by El Dorado County Section 1273.01.

For applications other than (R3), fire apparatus access roads shall have an unobstructed width of not less than 20 feet, plus one foot shoulder on each side, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm) or as approved by the fire code official.

All Driveways as defined by Title 14 SRA Fire Safe Regulations as adopted by El Dorado County shall be not less than 12 feet wide.

#### **503.2.2 Authority.**

The *fire code official* shall have the authority to require an increase in the minimum access widths where they are inadequate for fire or rescue operations.

#### **503.2.3 Surface.**

Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities. All weather surfaces shall be asphalt, concrete or other approved driving surface.

#### **503.2.4 Turning radius.**

The required turning radius of a fire apparatus access road shall be determined by the *fire code official*.

#### **503.2.5 Dead ends.**

For one and two family dwelling units (R3) applications, dead-end fire apparatus access roads shall comply with Title 14 SRA Fire Safe Regulations as adopted by El Dorado County Section 1273.09 and shall have a turnaround constructed at its terminus.

For applications other than (R3), dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) in length shall be provided with an approved area for turning around fire apparatus.

**503.2.6 Bridges and elevated surfaces.**

Where a bridge or an elevated surface is part of a fire apparatus access road, the bridge shall be constructed and maintained in accordance with the current El Dorado County Transportation Division bridge standard. Bridges and elevated surfaces shall be designed for a live load sufficient to carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances to bridges when required by the *fire code official*. Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces which are not designed for such use, *approved barriers*, *approved signs* or both shall be installed and maintained when required by the *fire code official*.

**503.2.7 Grade.**

The grade of the fire apparatus access road shall be within the limits established by the *fire code official* based on the fire department's apparatus.

**503.2.8 Angles of approach and departure.**

The angles of approach and departure for fire apparatus access roads shall be within the limits established by the *fire code official* based on the fire department's apparatus.

**503.3 Marking.**

Where required by the *fire code official*, *approved signs* or other *approved notices* or markings that include the words NO PARKING—FIRE LANE shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which *fire lanes* are designated shall be maintained in a clean and legible condition at all times and shall be replaced or repaired when necessary to provide adequate visibility.

**503.4 Obstruction of fire apparatus access roads.**

Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in Section 503.2.1 shall be maintained at all times.

**503.4.1. Traffic calming devices.**

Traffic calming devices shall be prohibited unless *approved* by the *fire code official*.

**503.4.2 Fire Apparatus Access Gates**

Fire Apparatus Access Road Gates shall meet the standards identified in the Fire Department's Gate Standard.

**503.4.3 Roads from 20 to 29 feet in width.**

Section 503.4.3 of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:

503.4.3 Roads from 20 to 29 feet in width. Fire apparatus access roads, 20 to 29 feet wide, shall be posted on both sides as a fire lane, with no parking allowed on either side of the roadway.

Section 503.4.4 shall be amended as follows: Roads from 30 to 35 feet in width.

Section 503.4.4 of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:



**503.4.4 Roads from 30 to 35 feet in width.** Fire apparatus access roads, 30 to 35 feet wide, shall be posted on one side as No Parking, Fire Lane, with parking allowed only on the opposite side of the roadway.

**Section 503.4.5 shall be added as follows: Roads 36 feet and greater in width.**

Section 503.4.5 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**503.4.5 Roads 36 feet and greater in width.** Fire apparatus access roads, 36 feet and greater in width, may allow parking on both sides of the roadway.

**503.5 Required gates or barricades.**

The *fire code official* is authorized to require the installation and maintenance of gates or other *approved* barricades across fire apparatus access roads, trails or other accessways, not including public streets, alleys or highways. Electric gate operators, where provided, shall be *listed* in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200.

**503.5.1 Secured gates and barricades.**

When required, gates and barricades shall be secured in an *approved* manner. Roads, trails and other accessways that have been closed and obstructed in the manner prescribed by Section 503.5 shall not be trespassed on or used unless authorized by the *owner* and the *fire code official*.

**Exception:** The restriction on use shall not apply to public officers acting within the scope of duty.

**503.5.2 Fences and gates.** *School grounds may be fenced and gates therein may be equipped with locks, provided that safe dispersal areas based on 3 square feet (0.28 m<sup>2</sup>) per occupant are located between the school and the fence. Such required safe dispersal areas shall not be located less than 50 feet (15 240 mm) from school buildings. Every public and private school shall conform with Section 32020 of the Education Code, which states: The governing board of every public school district, and the governing authority of every private school, which maintains any building used for the instruction or housing of school pupils on land entirely enclosed (except for building walls) by fences or walls, shall, through cooperation with the local law enforcement and fire-protection agencies having jurisdiction of the area, make provision for the erection of gates in such fences or walls. The gates shall be of sufficient size to permit the entrance of the ambulances, police equipment and fire-fighting apparatus used by the law enforcement and fire-protection agencies. There shall be no less than one such access gate and there shall be as many such gates as needed to assure access to all major buildings and ground areas. If such gates are to be equipped with locks, the locking devices shall be designed to permit ready entrance by the use of the chain or bolt-cutting devices with which the local law enforcement and fire-protection agencies may be equipped.*

**503.6 Security gates.**

The installation of security gates across a fire apparatus access road shall be *approved* by the fire chief. Where security gates are installed, they shall have an *approved* means of emergency operation. The security gates and the emergency operation shall be maintained operational at all times. Electric gate operators, where provided, shall be *listed* in accordance with UL 325. Gates intended for automatic

operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200.

**The Following Sections of the California Fire Code, Appendix D – Fire Apparatus Access Roads are adopted and amended to read as part of Chapter 5 as follows:**

**503.7 Commercial And Industrial Developments**

**503.7.1 Buildings exceeding three stories or 30 feet in height.** Buildings or facilities exceeding 30 feet (9144 mm) or three stories in height shall have at least two means of fire apparatus access for each structure.

**503.7.2 Buildings exceeding 62,000 square feet in area.** Buildings or facilities having a gross building area of more than 62,000 square feet (5760 m<sup>2</sup>) shall be provided with two separate and approved fire apparatus access roads.

**503.7.3 Remoteness.** Where two access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

Exception: Fire apparatus roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or similar condition, and an approved alternative means of fire protection is provided.

**503.8 Aerial Fire Apparatus Access Roads**

**503.8.1 Where required.** Buildings or portions of buildings or facilities exceeding 30 feet (9144 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.

**503.8.2 Width.** Aerial fire apparatus access roads shall have a minimum unobstructed width of 26 feet (7925 mm), exclusive of shoulders, in the immediate vicinity of any building or portion of building more than 30 feet (9144 mm) in height.

**503.8.3 Proximity to building.** At least one of the required access routes meeting this condition shall be located within a minimum of 15 feet (4572 mm) and a maximum of 30 feet (9144 mm) from the building, and shall be positioned parallel to one entire side of the building.

**503.9 Multiple-Family Residential Developments**

**503.9.1 Projects having more than 100 dwelling units.** Multiple- family residential projects having more than 100 dwelling units shall be equipped throughout with two separate and approved fire apparatus access roads.

**503.10 One- or Two-Family Residential Developments**

**503.10.1 One- or two-family dwelling residential developments.** Developments of one- or two-family *dwelling*s shall be provided with separate and *approved* fire apparatus access roads and shall meet the requirements of **503.7.3 Remoteness**, when required by the Fire Chief.

## **Section 507 – Fire Protection Water Supplies**

Sections 507.5.1 of Chapter 5 of the Fire Code of the El Dorado Hills County Water District are amended to read as follows:

### **Section 507.5.1 is amended to read as follows:**

**Section 507.5.1 Where required.** Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more the 400 150 feet 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 shall be provided where required by the fire code official.

### **Exception:**

1. For Group R-3 and Group U occupancies, equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.1, the distance requirement shall be not more than 600 feet (183 m).

## **California Fire Code, Chapter 6 Amendments – Building Services and System**

### **Section 604 - Emergency and Standby Power Systems**

Sections 604.1 of Chapter 6 of the Fire Code of the El Dorado Hills County Water District are amended to read as follows:

### **Section 604.1 is Amendment as follows:**

**Section 604.1 Installations.** Emergency and standby power systems required by this code or the California Building Code shall be installed in accordance with this code, NFPA 110 and NFPA 111. All buildings, other than one- and two-family dwelling units, and agricultural buildings not used for commercial purpose, with stand-by power shall have a shunt trip device that disconnects all power sources to the building, approved by the Fire Code Official. Existing installations shall be maintained in accordance with the original approval.

## **California Fire Code, Chapter 9 Amendments – Fire Protection Systems**

### **Section 903 – Automatic Sprinkler Systems**

### **Section 903.2 is amended to read as follows:**

Section 903.2 of Chapter 9 of the Fire Code of the El Dorado Hills County Water District is amended

to read as follows:

~~903.2 Where required.~~ Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12.

**903.2 Where required.** Approved, NFPA 13 automatic sprinkler system shall be required and installed in all buildings or structures, greater than 3600 square feet, when constructed or relocated within the jurisdiction.

**Exceptions:**

1. One- and two-family dwelling units (R-3 Occupancies).
2. Agricultural buildings not under Special Use Permit used for commercial purposes.

**Sections 903.2.a and 903.2.b are added to read as follows: Status of existing buildings.**

Sections 903.2.a and 903.2.b of Chapter 9 of the Fire Code of the El Dorado Hills County Water District are added to read as follows:

**903.2.a Status of existing buildings greater than 3,600 square feet.** In existing buildings 3600 square feet or greater, other than one- and two-family dwelling units, and agricultural buildings not under Special Use Permit for commercial purposes, where the floor area of the building or structure is increased by an addition of more than thirty percent (30%) or 1,000 square feet, whichever is less, such building or structure shall be made to conform to Section 903.2.

**903.2.b Status of existing buildings less than 3,600 square feet.** In existing buildings 3,600 square feet or less, other than one-and two-family dwelling units, and agricultural buildings not under Special Use Permit for commercial purposes, where the floor area of the building or structure is increased to a total square footage over 3,600 square feet, by an addition of more than thirty percent (30%) or 1,000 square feet, whichever is less, such building or structure shall be made to conform to Section 903.2.

**The following sections are amended by changing California Fire Code requirements to 3,600 square feet for fire sprinkler installation, as follows (the complete text of the section is not provided):**

<u>903.2.1.1</u>	<u>Group A-1.</u>	<u>Change 12,000 square feet to 3,600 square feet.</u>
<u>903.2.1.2</u>	<u>Group A-2.</u>	<u>Change 5,000 square feet to 3,600 square feet.</u>
<u>903.2.1.3</u>	<u>Group A-3.</u>	<u>Change 12,000 square feet to 3,600 square feet.</u>
<u>903.2.1.4</u>	<u>Group A-4.</u>	<u>Change 12,000 square feet to 3,600 square feet.</u>
<u>903.2.2.1</u>	<u>Group B.</u>	<u>All Group B occupancies over 3,600 square feet.</u>
<u>903.2.3</u>	<u>Group E.</u>	<u>Change 12,000 square feet to 3,600 square feet.</u>
<u>903.2.4</u>	<u>Group F-1.</u>	<u>All Group F-1 except manufacturing of upholstered furniture and mattresses and wood working operations exceeding 2500 square</u>

		feet.
903.2.7	Group M.	Change 5000 square feet to 3,600 square feet.
903.2.9	Group S-1.	All Group S-1 except Storage of upholstered furniture and mattresses exceeding 2500 square feet.
903.2.10	Group S-2.	Change 12,000 square feet to 3,600 square feet.

**Section 907 – Fire Alarm and Detection Systems**

**Sections 907.2.a, 907.2.b, and 907.2.c are added to read as follows:**

Sections 907.2.a, 907.2.b and 907.2.c of Chapter 9 of the Fire Code of the El Dorado Hills County Water District are added to read as follows:

**907.2.a An approved fire alarm/detection system shall be installed in all buildings with a floor area less than 3,600 square feet.**

**Exceptions:**

1. One and two family dwellings (R-3 Occupancies)
2. Agricultural buildings not under Special Use Permit used for commercial purposes.
3. Buildings with a floor area less than 500 square feet may be exempt, as determined by the Fire Chief, based on building construction material and features, location, occupancy type, and distance to exposures.

**907.2.b Status of existing buildings.** In existing buildings without an approved automatic sprinkler system, other than one- or two-family dwelling units, agricultural building not under Special Use permit for commercial purposes where a fire alarm/detection system does not exist and the floor area of the building or structure is increased or modified by more than thirty percent (30%) or 1,000 square feet, whichever is less, such building or structure shall be made to conform to Section 907 when required by the Fire Chief. Buildings with a floor area less than 500 square feet may be exempt, as determined by the Fire Chief, based on building construction materials and features, location, occupancy type, and distance to exposures.

**907.2.c. Monitoring.** All fire alarm/detection systems shall be connected directly through and monitored by a U.L. approved central, proprietary or remote station service, which gives audible and visual signals at a constantly attended location.

**California Fire Code, Chapter 56 Amendments – Explosives and Fireworks**

**Section 5601.2 is added as follows: Explosives permits required.**

Section 5601.2 of Chapter 56 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**5601.2 – Explosives Permits.** Where explosives permits are required, they shall be issued by the Fire

Chief and the El Dorado County Sheriff's Department.

**Section 5608.2 is added as follows: Fireworks permits required.**

Section 5608.2 of Chapter 56 of the Fire Code of the Appropriate District is added to read as follow:

**5608.2 – Fireworks Permits.** Where fireworks permits are required, they shall be issued by the Fire Chief and the El Dorado County Board of Supervisors.

**California Fire Code, Chapter 61 Amendments – Liquefied Petroleum Gases**

**Table 6104.3 Footnote “d” is amended to read as follows:**

Table 6104.3 Footnote “d” of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:

**6104.3 Footnote “d” - 500 gallons becomes 251 gallons.** Installation of DOT tanks, with setbacks from structures less than 10 feet, must be approved by the AHJ.

**Section 6112 is added as follows: High Altitude Liquefied Petroleum Gas Installations (4,000' and Above).**

**Section 6112.1 is added as follows: Regulators.**

Section 6112 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**6112.1 Regulators.** Two-stage regulator system shall be installed in accordance with manufacturer requirements.

1. First stage regulator and connecting pigtail shall be installed under a protective valve cover on the tank. The mounting position of the first stage regulator shall be listed for this application.

**Section 6112.2 is added as follows: Vertical Yard Riser Piping.**

Section 6112.2 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**6112.2 Vertical Riser Piping.**

1. Minimum of Schedule 40-iron piping.
2. Riser shall be within 3 inches horizontally of the tank.
3. Swing joints shall be installed above and below tank level to provide for the tank movement. (Street elbows shall not be used.)
4. A listed flexible riser constructed of copper or stainless steel tubing and protected by a steel covered sheathed material may be used instead of swing joints. The flexible alternative shall provide sufficient slack to allow for tank movement.

**Section 6112.3 is added as follows: Second Stage Regulators.**

Section 6112.3 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added

to read as follows:

**6112.3 Second Stage Regulators.**

1. The riser and second stage regulator shall be installed on the gable end of the building as close as practical to the building wall.

Exception: If not feasible due to structural or topographical constraints.

2. The riser shall be equipped with a listed gas shut off valve prior to the second stage regulator.

3. A protective cover shall be installed over the second stage regulator and meter (if installed) at the building. The minimum design for the protective cover and support structure shall be equal to or greater than the building design load as determined by the Building Department. The support structure shall be securely attached to the building wall or ground surface.

4. Riser piping shall not be embedded in asphalt or concrete.

Exception: If 1 inch of annular clearance is maintained from all side of the piping.

**Section 6112.4 is added as follows: Markings and Locations.**

Section 6112.4 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**6112.4 Marking and Locations.**

1. An approved sign shall be located directly above the riser shut off valve on the building in a visible location.

2. The liquefied petroleum gas supplier shall affix a weatherproof identification tag to the inside of the tank valve protecting cover. This tag shall contain the supplier's name and emergency telephone number.

3. Tank installation shall be permanently marked by a metal or wood material snow marker, with a minimum dimension of 2 inches by 2 inches. The snow marker shall be of sufficient height to rise above the annual snow depth and shall be a minimum of 10 feet in height. The snow markers shall be painted yellow and located on opposite ends of the tank.

**Section 6113 is added to read as follows: Underground Liquefied Petroleum Gas Tank Installations.**

Section 6113 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**Section 6113.1 is added to read as follows: Permits and Plans.**

Section 6113.1 of Chapter 61 of the Fire Code of the El Dorado Hills County Water District is added to read as follows:

**6113.1 - Permits and Plans.** Permits shall be required and plans shall be submitted for all underground tank installations and approved by the AHJ.

**Appendix B – Fire Flow Requirements for Buildings**

**Section B105.2 – Buildings other than one and two family dwellings:**

Section B105.2 of Appendix B of the Fire Code of the El Dorado Hills County Water District is amended to read as follows:

**Section B105.2 is amended as follows:**

**Exceptions:**

1. A reduction in required fire flow up to ~~75~~ 50 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system installed in accordance with Sections 903.3.1.1 or 903.3.1.2. The resulting fire flow shall not be less than 1,500 gallons per minute for the prescribed duration as specified in Table B105.1.

**SECTION 4. ESTABLISHING LIMITS:**

That the geographic limits referred to in certain sections of the Fire Code of El Dorado Hills County Water District are hereby established as follows:

**Sections 5704.2.9.6.1 - Geographic limits in which flammable or combustible liquids in above-ground tanks outside of buildings is prohibited:**

The limits, referred to in Sections 5704.2.9.6.1 of the Fire Code of El Dorado Hills County Water District in which the storage of Class I flammable liquids or Class II combustible liquids in above-ground tanks outside of buildings is restricted, are hereby established as the limits of the El Dorado Hills County Water District, County of El Dorado.

The storage of Class I flammable liquids or Class II combustible liquids in above-ground tanks outside of buildings is allowed in an AHJ approved Commercial, Industrial Zone with a Special/Conditional Use Permit issued by the County of El Dorado.

**Sections 5706.2.4.4 - Geographic limits in which flammable or combustible liquids in above-ground tanks is prohibited:**

The limits, referred to in Sections 5706.2.4.4 of the Fire Code of El Dorado Hills County Water District in which the storage of Class I flammable liquids or Class II combustible liquids in above-ground tanks is restricted, are hereby established as the limits of the El Dorado Hills County Water District, County of El Dorado.

The storage of Class I flammable liquids or Class II combustible liquids in above-ground tanks is allowed in an AHJ approved Commercial, Industrial Zone with a Special/Conditional Use Permit issued by the County of El Dorado.

**Section 5806.2- Geographic limits in which storage of flammable cryogenic fluids in stationary containers is prohibited:**

The limits referred to in Section 5806.2 of the Fire Code of El Dorado Hills County Water District in which storage of flammable cryogenic fluids in stationary containers is prohibited are hereby



established as the limits of the El Dorado Hills County Water District, County of El Dorado.

The storage of flammable cryogenic fluids in stationary containers is allowed in an AHJ approved Commercial, Industrial Zone with a Special/Conditional Use Permit issued by the County of El Dorado.

**Section 6104.2 - Geographic limits in which storage of liquefied petroleum gases is to be restricted for the protection of heavily populated and congested areas:**

The limits, referred to in Section 6104.2 of the California Fire Code, in which storage of liquefied petroleum gas in excess of an aggregate of 2,000 gallons water capacity is restricted, are hereby established as limits of the El Dorado Hills County Water District, County of El Dorado.

1. The storage of liquefied petroleum gas in excess of an aggregate of 2,000 gallons water capacity when located at least one-half (1/2) mile from property zoned or designated for residential use and at least one-half (1/2) mile from existing residential development with a density greater than one (1) dwelling unit per acre and at least one-half (1/2) mile from any hotel or motel is allowed when AHJ approved and a Special/Conditional Use Permit is issued by the County of El Dorado.
2. Dispensing within established limits. Within the limits established by law restricting the dispersion of liquefied petroleum gas for the protection of heavily populated or congested areas, the aggregate capacity of any one installation shall not exceed a water capacity of 2,000 gallons. The dispensing of liquefied petroleum gas in excess of an aggregate of 2,000 gallons water capacity when located at least one-half (1/2) mile from property zoned or designated for residential use and at least one-half (1/2) mile from existing residential development with a density greater than one (1) dwelling unit per acre and at least one-half (1/2) mile from any hotel or motel is allowed when AHJ approved and a Special/Conditional Use Permit is issued by the County of El Dorado.

**SECTION 5: CONFLICT**

That Ordinance No. 35 of the El Dorado Hills County Water District, and all other ordinances or parts of ordinances herewith are hereby repealed.

**SECTION 6: SEVERABILITY**

If any Ordinance, article, subsection or subdivision thereof, provision, sentence, clause or phrase of this code, or any application thereof, is for any reason held to be invalid by a court of competent jurisdiction, such decision shall not affect the remaining provisions of this code, which can be given effect without the invalid portions and, therefore, such invalid portions are declared to be severable. The El Dorado Hills County Water District hereby declares that it would have enacted this Ordinance and each of its articles, sections, subsections, or subdivisions thereof, provisions, sentences, clauses or phrases irrespective of the fact that one or more of them is declared invalid.

**SECTION 7: EFFECTIVE DATE AND PUBLICATION:**

This Ordinance shall take effect thirty (30) days after its adoption. The El Dorado Hills County Water District Board Secretary is directed to publish this ordinance in a newspaper of general circulation in

the District. In lieu of publication of the full text of the ordinance, a summary of the ordinance may be published by the by the Board Secretary within fifteen (15) days after its passage and a certified copy shall be posted in the office of the El Dorado Hills County Water District, pursuant to Government Code Section 36933(c) (1).

The above Ordinance was introduced at a meeting of the Board of Directors of the El Dorado Hills County Water District on the November 21, 2013 and it was then read for the first time. The Ordinance was read for the second time on the December 12, 2013 and approved by the following vote:

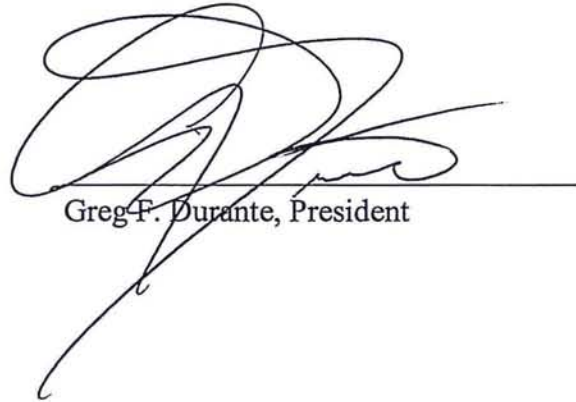
PASSED AND ADOPTED by the Board of Directors of the El Dorado Hills County Water District this, 12<sup>th</sup> day of December, 2013.

AYES: Durante, Hartley, Hidahl, Winn

NOES: None

ABSENT: Barber

ABSTAIN: None

A handwritten signature in black ink, appearing to read 'Greg F. Durante', is written over a horizontal line. The signature is stylized and cursive.

Greg F. Durante, President

ATTEST:

A handwritten signature in black ink, appearing to read 'Connie L. Bair', is written over a horizontal line. The signature is cursive.

Connie L. Bair, Board Secretary

**EL DORADO HILLS COUNTY WATER DISTRICT**

**RESOLUTION 2013-12**

**Resolution of the Board of Directors Adopting Findings Supporting  
Amendments to the Fire Code**

**WHEREAS**, the El Dorado Hills County Water District Board (Fire Department) intends to adopt an ordinance adopting the California Fire Code, 2013 Edition, and prescribing regulations governing conditions hazardous to life, property and the environment from fire, explosion, hazardous materials and hazardous uses; and

**WHEREAS**, the unique local climatic, geological and topographical conditions existing within the boundaries of the District make it reasonably necessary for the District to impose more stringent requirements than set forth in the California Fire Code pursuant to California Health and Safety Code sections 13869.7 and 17958.7, the District desires to make express findings to that effect.

**NOW, THEREFORE, BE IT RESOLVED** that the EDHCWD (Fire Department) hereby adopts the following findings concerning current unique local conditions that together make each modification to the California Fire Code, 2013 Edition, reasonably necessary to provide adequate and effective protection of life, property and the environment.

**CLIMATE**

1. Precipitation. Average annual precipitation ranges from approximately 25 to 32 inches per year. Approximately 88% of the average rainfall occurs during the months of November through April and 12% from May through October. This area has experienced major droughts in the last two decades: one in 1986 and lasted through 1991, and the last drought which started in 2007 and lasted through 2009. It is possible that more droughts will occur in the future.

2. Relative Humidity. During the summer months (May through September), the daily humidity generally ranges around 20% and occasionally drops to the low teens.
3. Temperatures. During the summer months (May through September), the daily temperatures commonly exceed 90 degrees Fahrenheit, with temperatures having been recorded as high as 115 degrees.
4. Winds. The summer prevailing winds are out of the south and southwest. However, north winds occur during the spring (April and May), the fall (September and October), and occasionally during the summer months (June, July and August). Velocities are generally in the range of five to fifteen miles per hour, gusting to 30 miles per hour during the summer months.

### **SUMMARY**

These local climatic conditions affect the acceleration, intensity and size of fire in the community. Times of little or no rainfall and high temperatures create extremely hazardous conditions, particularly as they relate to residential roof fires and wildfire conflagrations. The climatic conditions are one of the greatest impacts to fire behavior and other major emergency events due to their uncontrollable nature.

### **GEOGRAPHIC AND TOPOGRAPHIC**

1. Geographic Location. El Dorado Hills is located in the foothills of the Sierra at an altitude range of approximately 650 feet to 1,500 feet above sea level.
2. Size and Population. The EDHCWD (Fire Department) encompasses approximately forty square miles and has a current population of approximately 42,600 residents with a projected population increase, due to development, to approximately 60,000 residents.

3. Seismic Location. The nearest identified fault zone running through the District is the Bear Mountain Fault. This fault zone is split into several branches which transect the area between Folsom and Shingle Springs. The closest branch passes through the middle of the District along the western edge of Browns Ravine. The next nearest extension of this fault system is located immediately at the north end of the District, and extends from the southeast arm of Folsom Lake, north to the City of Auburn. No recent geologic activity has been observed along this fault. However, studies of the east branch of the fault zone, conducted by Woodward-Clyde Associates for the Auburn Dam, and by Tierra Engineering Consultants near Folsom Lake, indicate that the fault may be reactivating based on recent tectonic trends and should be considered potentially active.
4. Topography. The topography of the District varies from level to terrain with over a 40% slope. The valley floor is relatively flat with gentle slopes and consists of grassland and trees. The east and west sides of the valley floor increase to approximately 40% slopes and consist of trees, brush and grass-covered range land. The greatest degree of slope occurs in the northern end of the District and extends northeast from there. Hilly terrain throughout the area provides gullies or areas referred to as "chimneys" which accelerate the spread of fire.
5. Roads and Streets. The District has seen an accelerated degree of urban and commercial development within the last 15 years. With this development comes the increase of vehicular traffic and congestion which can have a direct effect on the response time of emergency apparatus.

6. Building Clearances. As residential development continues to occur in the District, the clearance between homes has decreased which increases the ability of fire to spread from one home to another by both radiation and convection heat.

**SUMMARY**

The above geographic and topological conditions increase the magnitude, exposure, accessibility problems and fire hazards that the Department must handle. Fire following an earthquake has the potential of causing greater loss of life and damage to property than the earthquake itself.

Other variables may tend to increase the situation:

1. The damage that may occur to the water system, and;
2. The extent of isolation due to roadway damage, overpass collapse and debris blocking the roadway.

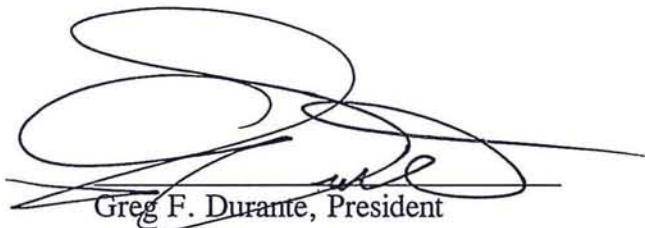
**PASSED AND ADOPTED** by the Board of the El Dorado Hills County

Water District this November 21, 2013 by the following vote:

AYES: Durante, Hartley, Hidahl, Winn

NOES: None

ABSENT: Barber



Greg F. Durante, President

ATTEST:



Connie L. Bair, Board Secretary