

RESOLUTION NUMBER: 2010-9

ADOPTING FINDINGS SUPPORTING
AMENDMENTS TO THE 2010 CALIFORNIA FIRE CODE

LAKE VALLEY FIRE PROTECTION DISTRICT

WHEREAS, the District intends to adopt an ordinance adopting the California Fire Code, 2010 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 that set forth in the California Fire Code and 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 Board of Directors of the Lake Valley Fire Protection District hereby adopt the following findings concerning current unique local conditions that together make each modification to the California Fire Code, 2010 Edition, reasonably necessary to provide adequate and effective protection of life, property, and the environment.

- A. **General.** After due consideration, the Board of Directors of the Lake Valley Fire Protection District, hereby finds that due to local climatic, geologic, and topographic conditions as stated within this document, there is a need to provide the modifications and changes contained in the adoptive Ordinance of the 2010 California Fire Code. Such changes are deemed to be reasonably necessary to provide adequate and effective protection of life, property, and the environment.

The Lake Valley Fire Protection District provides fire protection, fire prevention, EMS, and rescue services for unincorporated county areas of El Dorado and Alpine Counties with a total District size of 85 square miles. The District boundaries extend from the unincorporated town of Twin Bridges east to the Nevada State border and from Emerald Bay to the junction of State Highway's 89 and 88 in Alpine County. The District has established two full time staffed fire stations and one volunteer fire station to provide emergency services to the community. Fire Station 7 is located in the unincorporated town of Meyers at the intersection of State Highway's 50 and 89. Fire Station 6 is located in the Golden Bear subdivision off of Pioneer Trail. Fire Station 5, the volunteer station, is located at the Eastern edge of the North Upper Truckee subdivision. The District has 28 full time paid personnel and 25 volunteer fire fighter positions along with four management and one administrative support positions.

Portions of the District are within the air path approach to the South Lake Tahoe airport. The presence of a large amount of private aircraft and the potential for future commercial aircraft presents a high potential for rescue and fire fighting demands on the District.

The District has numerous festival events that occur yearly as well as a significant amount of tourism due to the proximity to Lake Tahoe and two world class ski resorts within the District boundaries. Such events and tourism can present significant increases of vehicular traffic and population within the District. These increased conditions result in a high demand for providing emergency services.

- B. **Climatic.** The Lake Valley Fire Protection District is located within a mountainous alpine region. The District is subject to four seasons with annual average snow fall in the winter months of 225 inches (20 feet) in addition to an average rainfall of 32 inches per year. The record annual snow fall in the Lake Tahoe Basin is 884 inches (74 feet) set in the winter of 1906-07. These adverse weather conditions create severe hazardous road conditions as well as avalanche and rock slide hazards along the main access roads within, as well as into the District from the surrounding areas. Due to periods of heavy snow and rainfall, along with repeated road closures, the ability of the Fire Protection District to provide immediate emergency response is often delayed. These same adverse climatic conditions often result in a large number of vehicular accidents that place extreme restraints on the availability of emergency response to perform emergency rescue, first aid, hazardous materials control, and fire fighting. The climatic conditions often result in a substantial or total lack of ability of the Fire Protection District to respond immediately to other types of emergency situations that occur. Examples of these emergency situations include structure fires, wildland and forest fires, hazardous materials incidents, emergency medical calls, vehicle accidents, or high angle rescues. The mutual aid agreements established with adjoining fire agencies might not be possible due to adverse climatic conditions having restricted or totally blocked access into the District.
- C. **Geological.** The Lake Valley Fire Protection District is located within a moderate activity seismic Zone Three. There are five identified faults located in the immediate vicinity of the District. The seismic geological conditions present a potential for multiple fires, major breakage of water mains, major breakage of natural gas mains, multiple electrical power failures, multiple collapsed structures, large number of calls for emergency medical aid, all of which may occur simultaneously during a seismic event. The water district has numerous water-pumping systems used for fire suppression water delivery as well as water storage tanks providing water system pressure. A majority of the pumping systems are dependent on electrical power for operation. Such electrical power may not be available during a seismic event. Water storage tanks used for the storage of required fire suppression water may also collapse in such an event forcing the additional needs to transport water via additional pieces of fire apparatus which

will place a significant restraint on the ability of the District to provide the required emergency services.

- D. **Topographical.** The District is primarily composed of areas that are considered by the State fire hazard severity zone mapping system to be of very high fire severity zones and wildland. Much of the District is located within mountainous terrain covered with highly combustible vegetation including the presence of many coniferous forested areas. The elevation within the District ranges from lake level at 6,225 feet to over 10,000 feet at the highest peak. Slope within the District ranges from 0 degrees to 90 degrees (0-200%). The structures within the areas of mountainous terrain have very limited fire access due to narrow roadways with steep grades and poor road surface conditions. The presence of many existing structures within the very high fire hazard severity zone areas provides for a very high potential of a structure fire spreading into a wildland or forest fire condition as well as the potential for a wildland or forest fire spreading to structures.

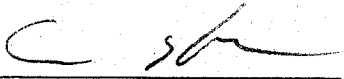
INTRODUCED at a regular meeting of the Board of Directors of the Lake Valley Fire Protection District on OCT 14, 2010

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Lake Valley Fire Protection District on OCT 14, 2010 by the following roll call vote:

AYES: HUBER, BETTENCOURT, WAGONER, ROSS

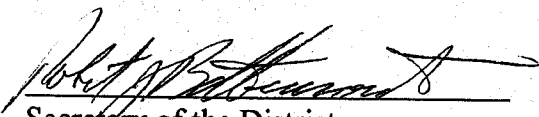
NOES:

ABSENT: HERBACK



President, Board of Directors
Lake Valley Fire Protection District

ATTEST:



Secretary of the District

P.O. Box 1888
Carson City, NV 89702
Phone (775) 881-1201
Fax (775) 887-2408

Account Number: #1060732

Legal Account
Lake Valley Fire Protection Dist.
2211 Keetak St.
South Lake Tahoe, CA 96150
Attn: Leona Allen

Rachel Renaud says:
That (s)he is a legal clerk of the **TAHOE DAILY
TRIBUNE**, a newspaper published Wednesday, Friday,
Saturday at South Lake Tahoe, in the State of California.

Meeting November 11, 2010

Ad #5694210

of which a copy is hereto attached, was published in
said newspaper for the full required period of 1 time
commencing on **October 13, 2010**, and ending on
October 13, 2010, all days inclusive.

Signed: *Rachel Renaud*

STATEMENT:

Date	Amount	Credit	Balance
10/13/10	\$ 58.76	\$0.00	\$ 58.76

**Notice of Intent to Adopt the
2010 California Fire Code**

Notice is hereby given to the intention of the Lake Valley Fire Protection District (District) to adopt the 2010 California Fire Code. The District shall hold a public hearing and first reading at 7:00 P.M. on the 11th of November, 2010, at 2211 Keetak Street, South Lake Tahoe, California, 96150 regarding the adoption of the 2010 California Fire Code pursuant to Health and Safety Code Section 13869. Copies of the code section referred to and any secondary code sections referred to, adopted by reference, are on file with the Secretary of the District and are open to public inspection. Adoption of the 2010 California Fire Code will enable all District personnel to follow one set of rules and regulations with regard to the health and safety of the public and the District's response thereto.

Pub: October 13, 2010 Ad#5694210

P.O. Box 1888
Carson City, NV 89702
Phone (775) 881-1201
Fax (775) 887-2408

Account Number: #1060732

Legal Account
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2211 Keetak St.
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Attn: Leona Allen

Rachel Renaud says:
That (s)he is a legal clerk of the **TAHOE DAILY
TRIBUNE**, a newspaper published Wednesday, Friday,
Saturday at South Lake Tahoe, in the State of California.

Meeting December 9, 2010

Ad #5694331

of which a copy is hereto attached, was published in
said newspaper for the full required period of **1 time**
commencing on **November 3, 2010**, and ending on
November 3, 2010, all days inclusive.

Signed: *Rachel Renaud*

STATEMENT:

Date	Amount	Credit	Balance
11/03/10	\$ 60.51	\$0.00	\$ 60.51

**Notice of Intent to Adopt the
2010 California Fire Code**

Notice is hereby given to the intention of the Lake Valley Fire Protection District to adopt the 2010 California Fire Code. The District shall hold a public hearing, second reading, and adopt under ordinance at 7:00 P.M. on the 9th of December, 2010, at 2211 Keetak Street, South Lake Tahoe, California 96150 regarding the adoption of the 2010 California Fire Code pursuant to Health and Safety Code Section 12869. Copies of the code section referred to and any secondary code sections referred to, adopted by reference, are on file with the Secretary of the District and are open to public inspection. Adoption of the 2010 California Fire Code will enable all District personnel to follow one set of rules and regulations with regard to the health and safety of the public and the climate response issue.

Pub. November 3, 2010 Ad#5694331



LAKE VALLEY FIRE PROTECTION DISTRICT

ORDINANCE 2010-01

An ordinance of the Lake Valley Fire Protection District adopting the 2010 edition of the California Fire Code, based upon the 2009 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 Lake Valley Fire Protection District; providing for the issuance of permits and collection of fees therefore; repealing Ordinance No. 2007-02 of the Lake Valley Fire Protection District and all other ordinances and parts of the ordinances in conflict therewith.

BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE LAKE VALLEY FIRE PROTECTION DISTRICT AS FOLLOWS:

Section 1: ADOPTION OF CODE:

Section 2: CALIFORNIA FIRE CODE, AMENDMENTS:

Section 3: ESTABLISHING LIMITS:

Section 4: CONFLICT

Section 5: SEVERABILITY

Section 6: EFFECTIVE DATE AND PUBLICATION:

Section 1: ADOPTION OF CODE:

That a certain document, three (3) copies of which are on file in the office of the Secretary of the Lake Valley Fire Protection District, being marked and designated as the California Fire Code, 2010 edition, in its entirety, and the following International Fire Code Sections and Appendices not adopted by the State of California: 101.3, 103.1 thru 103.4.1, 104.1 thru 104.11.3, 106.1, 107.1 thru 107.6, 108.1 thru 108.3, 112, 113.1 thru 113.6.1, 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, and

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 Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

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 Lake Valley Fire Protection District are added to read as follows, based on climatic, geological and topographical conditions:

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 Lake Valley Fire Protection 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 507 – Fire Protection Water Supplies

Sections 507.5.1 of Chapter 5 of the Fire Code of the Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

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.

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.

Section 903.2.8 is amended as follows: Group R Occupancies

Section 903.2.8.1 of Chapter 9 of the Fire Code of the Lake Valley Fire Protection District is added to read as follows, based on climatic, geological and topographical conditions:

Section 903.2.8.1 is added to read as follows:

Section 903.2.8.1 of Chapter 9 of the Fire Code of the Lake Valley Fire Protection District is added to read as follows, based on climatic, geological and topographical conditions:

903.2.8.1 Automatic sprinkler systems installed in Group R, Division 3 occupancies shall conform to the following standards, in addition to NFPA Standard 13D, 2010 edition:

1. Automatic sprinkler system coverage shall be provided throughout the residence to include all closets, bathrooms, garages, and any area used for storage.
 - a. Exception: Small linen closets less than 24 square feet with complete full depth shelving.
2. An exterior bell shall be mounted in a location to be audible from the street upon activation of the required flow switch.
3. Interior horn / strobes shall be mounted in a central location audible from the master bedroom upon activation of the required flow switch.
 - a. A preferred alternative to interior horn / strobes: An acceptable alternative to interior horn / strobes is to interconnect the flow switch to the hardwired smoke detectors. Upon activation of the flow switch, all smoke detectors shall sound.
4. A sprinkler head shall be mounted on a metal sprig above any attic access openings and where required by the AHJ.
5. All automatic sprinkler systems shall be hydraulically designed and the plans and hydraulic calculations stamped by a California licensed C-16 fire protection contractor or a Professional Engineer.

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>

Chief and the El Dorado County Sheriff's Department.

Section 3308.2 is added as follows: Where fireworks permits required.

Section 3308.2 of Chapter 33 of the Fire Code of the Lake Valley Fire Protection District is added to read as follows, based on climatic, geological and topographical conditions:

3308.2 – 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 38 Amendments – Liquefied Petroleum Gases

Table 3804.3 Footnote “d” is amended to read as follows:

Table 3804.3 Footnote “d” of Chapter 38 of the Fire Code of the Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

3804.3 Footnote “d” - 500-gallens becomes 250 gallons. Installation of DOT tanks, with setbacks from structures less than 10 feet, must be approved by the AHJ.

Section 3812 is added as follows: High Altitude Liquefied Petroleum Gas Installations (4,000' and Above).

Section 3812.1 is added as follows: Regulators.

Section 3812.1 of Chapter 38 of the Fire Code of the Lake Valley Fire Protection District is added to read as follows, based on climatic, geological and topographical conditions:

3812.1 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 3812.2 is added as follows: Vertical Yard Riser Piping.

Section 3812.2 of Chapter 38 of the Fire Code of the Lake Valley Fire Protection District is added to read as follows, based on climatic, geological and topographical conditions:

3812.2 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.

underground tank installations and approved by the AHJ.

Appendix B – Fire Flow Requirements for Buildings

Section B105 – Fire-Flow Requirements for Buildings:

Section B105.1 shall be amended as follows:

Section B105.1 of Appendix B of the Fire Code of the Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

Section B105.1 is amended as follows:

Exception: A reduction in required fire flow of 50 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system as long as the reduction in fire flow is not less than 1000 gallons per minute.

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

Section B105.2 of Appendix B of the Fire Code of the Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

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.

Appendix D – Fire Apparatus Access Roads

Section D103 – Minimum Specifications

Section D103.6.1 shall be amended as follows: Roads from 20 to 29 feet in width.

Section D103.6.1 of Appendix D of the Fire Code of the Lake Valley Fire Protection District is amended to read as follows, based on climatic, geological and topographical conditions:

D103.6.1 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 D103.6.2 shall be amended as follows: Roads from 30 to 35 feet in width.

Section D103.6.2 of Appendix D of the Fire Code of the Lake Valley Fire Protection District is

required.

- ~~2. The number of dwelling units on a single fire apparatus access road shall be increased unless fire apparatus access roads will connect with future development, as determined by the fire code official.~~

Section 3. ESTABLISHING LIMITS:

That the geographic limits referred to in certain sections of the Fire Code of the Lake Valley Fire Protection District are hereby established as follows:

Section 3204.2.9.6.1 - Geographic limits in which storage of flammable cryogenic fluids in stationary containers is prohibited:

The limits referred to in Section 3204.2.9.6.1 of the Fire Code of the Lake Valley Fire Protection District in which storage of flammable cryogenic fluids in stationary containers is prohibited are hereby established as the limits of the Lake Valley Fire Protection 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.

Sections 3406.2.4.4 - Geographic limits in which flammable or combustible liquids in above-ground tanks outside of buildings is prohibited:

The limits, referred to in Sections 3406.2.4.4 of the Fire Code of the Lake Valley Fire Protection 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 Lake Valley Fire Protection 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 3506.2 - Geographic limits in which flammable or combustible liquids in above-ground tanks is prohibited:

The limits, referred to in Sections 3506.2 of the Fire Code of the Lake Valley Fire Protection 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 Lake Valley Fire Protection District, County of El Dorado.

The storage of Class I flammable liquids or Class II combustible liquids in above-ground tanks is

This Ordinance shall take effect thirty (30) days after its adoption. The Lake Valley Fire Protection District 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 Board Secretary within fifteen (15) days after its passage and a certified copy shall be posted in the office of the Lake Valley Fire Protection District, pursuant to Government Code Section 25124.

The above Ordinance was introduced at a meeting of the Board of Directors of the Lake Valley Fire Protection District on the 11th day of November, 2010 and it was then read for the first time. The Ordinance was read for the second time on the 9th day of December, 2010 and approved by the following vote:

PASSED AND ADOPTED by the Board of Directors of the Lake Valley Fire Protection District this, 9th day of December, 2010.

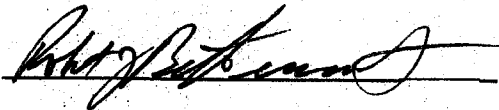
AYES: 4

NOES: Ø

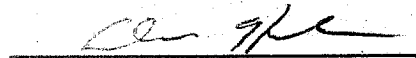
ABSENT: 1

ABSTAIN: Ø

ATTEST:



Secretary to the Board of Directors



President to the Board of Directors