

Before the Board of Supervisors
County of Placer, State of California

In the matter of:

Resol. No: 2015-181

RATIFICATION OF THE NORTH TAHOE FIRE
PROTECTION DISTRICT'S AMENDMENTS
TO THE 2013 CALIFORNIA FIRE CODE

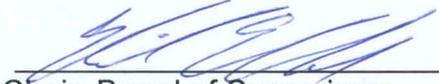
The following Resolution was duly passed by the Board of Supervisors of the County of
Placer at a regular meeting held September 01, 2015 by the following
vote on roll call:

Ayes: DURAN, WEYGANDT, HOLMES, MONTGOMERY, UHLER

Noes: NONE

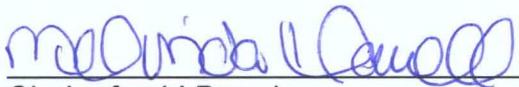
Absent: NONE

Signed and approved by me after its passage.



Chair, Board of Supervisors

Attest:



Clerk of said Board

WHEREAS, California Health and Safety Code section 13869.7 allows a fire protection district to adopt building standards relating to fire and panic safety that are more stringent than those building standards adopted by the State Fire Marshal and contained in the California Building Standards Code; and

WHEREAS, a fire protection district that proposes to adopt such an ordinance must also adopt findings of fact and need for changes or modifications because of local conditions in compliance with Health and Safety Code section 18941.5; and

WHEREAS, Health and Safety Code section 13869.7(c) requires the fire protection district to transmit the adopted ordinance and resolution of findings to the county or city where the ordinance will apply; and

WHEREAS, Health and Safety Code section 13869.7(c) authorizes the legislative body of that county or city to ratify, modify or deny an adopted ordinance and transmit its determination to the district within 15 days of the determination; and

WHEREAS, no ordinance adopted by a fire protection district under Health and Safety Code section 13869.7 shall be effective unless or until it is ratified by the legislative body of the city or county where the ordinance will apply; and

WHEREAS, the NORTH TAHOE FIRE PROTECTION DISTRICT is located within the boundaries of Placer County as depicted in Exhibit "A"; and

WHEREAS, on July 15, 2015, the NORTH TAHOE FIRE PROTECTION DISTRICT's Board of Directors passed Ordinance No. 02-2015 effectively amending the 2013 California Fire Code and findings to support the amendments because of local conditions, attached hereto as Exhibit B; and

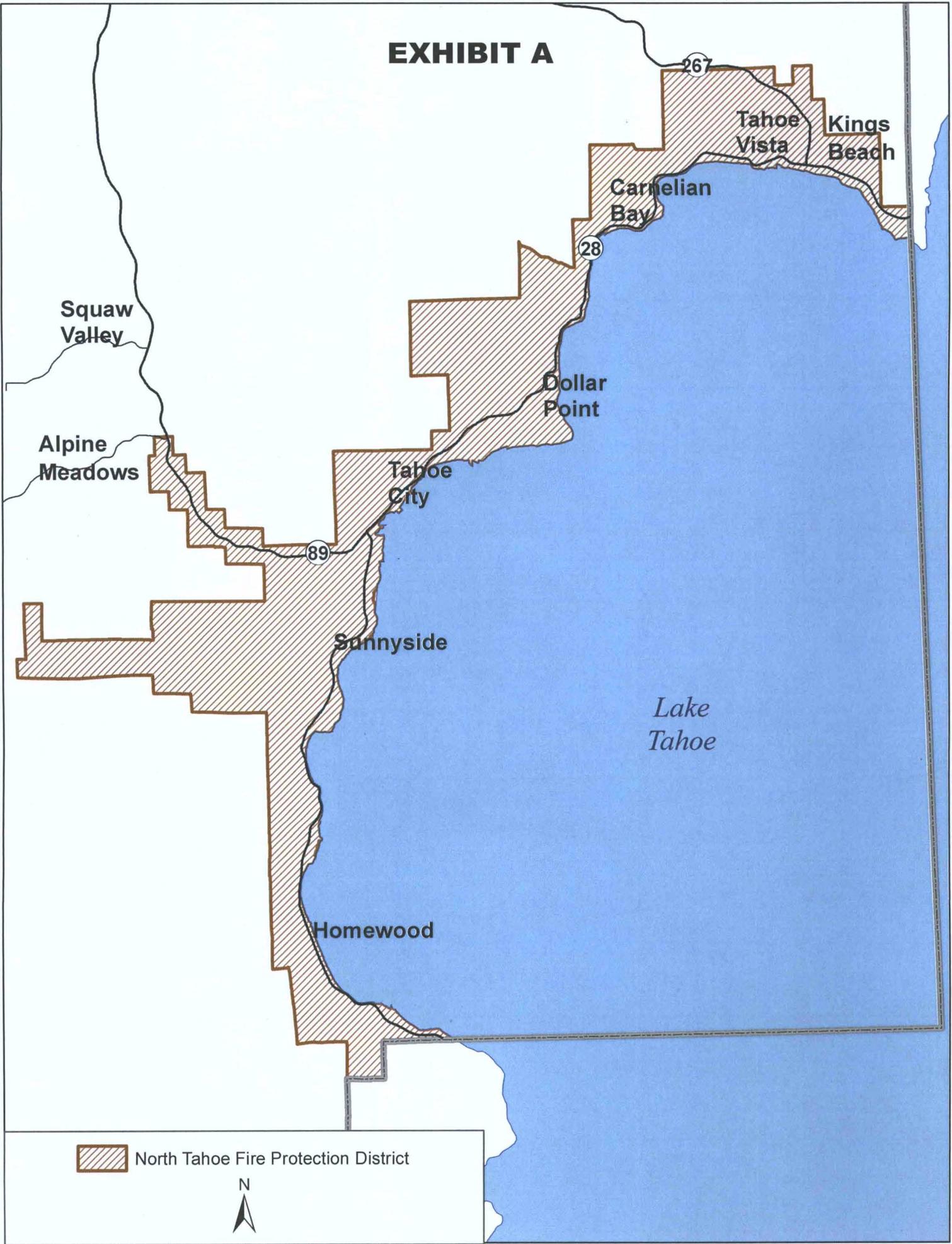
WHEREAS, the NORTH TAHOE FIRE PROTECTION DISTRICT has transmitted a copy of Ordinance No. 02-2015 to the County; and

WHEREAS, this Board has considered Ordinance No. 02-2015 as attached hereto and wishes to ratify the same.

NOW, THEREFORE, BE IT RESOLVED by the Placer County Board of Supervisors that it hereby ratifies the NORTH TAHOE FIRE PROTECTION DISTRICT's Ordinance No. 02-2015 amending the 2013 California Fire Code as set forth in Exhibit "B".

BE IF FURTHER RESOLVED, that this Resolution shall be effective immediately.

EXHIBIT A



 North Tahoe Fire Protection District



EXHIBIT B



NORTH TAHOE FIRE PROTECTION DISTRICT

ORDINANCE NO. 02 – 2015

AN ORDINANCE FOR THE NORTH TAHOE FIRE PROTECTION DISTRICT ADOPTING THE NORTH TAHOE FIRE PROTECTION DISTRICT PUBLIC PRIVATE PARTNERSHIP FUND FOR INFRASTRUCTURE AND CAPITAL IMPROVEMENTS (“PARTNERSHIP FUND”) AND AMENDING THE FIRE PREVENTION CODE OF THE DISTRICT PERTAINING TO ALTERNATIVE MITIGATION TO ASSURE COMPLIANCE WITH FIRE FLOW REQUIREMENTS.

WHEREAS, fire protection districts are generally required to adopt the State Building Standards; and

WHEREAS, pursuant to Health & Safety Code Section 17958.5 fire protection districts are allowed to make amendments to those state standards when justified by local topographical, climatic and geographical conditions and the Board makes appropriate findings to that effect; and

WHEREAS, the District has the power, pursuant to California Health and Safety Code §13861 to acquire property, including water facilities, to enter into and perform contracts, to adopt ordinances and to establish and enforce rules and regulations for the administration, operation, and maintenance of the services listed in Section 13862 [fire protection, rescue, emergency medical, hazardous materials response, ambulance service and any other service relating to the protection of lives and property]; and

WHEREAS, North Tahoe Fire Protection District has on November 20, 2013 adopted and implemented Ordinance No. 03-2013, Fire Prevention Code of the North Tahoe Fire Protection District, to augment and supplement the California Fire Code; and

WHEREAS, the North Tahoe Fire Protection District has determined it would be in the best interests of the District and the community served to expand on the flexibility provided in the California Fire Code for alternative means of mitigating fire flow requirements by providing for a Public Private Partnership Fund for Infrastructure and Capital Improvements (“Partnership Fund”) to provide funding for acquisition, operations and maintenance of alternative water

delivery systems, including fire boat(s) or water tender(s), to the fixed systems currently authorized by the California Fire Code; and

WHEREAS, Health and Safety Code sec. 13869.7 provides that any fire protection district may adopt building standards relating to fire and panic safety that are more stringent than those building standards adopted by the State Fire Marshal and contained in the California Building Standards Code.

NOW, THEREFOR BE IT ORDAINED BY THE NORTH TAHOE FIRE PROTECTION DISTRICT, BY THE GOVERNING BOARD OF THE DISTRICT, AS FOLLOWS:

Section 1. North Tahoe Fire Protection District hereby adopts the Public Private Partnership Fund for Infrastructure and Capital Improvements (“Partnership Fund”) to receive contributions of cash or property qualifying under Internal Revenue Code Section 170 as a charitable contribution if the contribution or gift is made for exclusively public purposes. Contributions to the Partnership Fund shall be maintained and administered as a separate trust fund, subject to investment restrictions applicable to the District in the management of its funds, and administered to permit expenditures of accrued principal and interest, after deduction of reasonable costs of administration, for infrastructure and capital improvement acquisition, operations and maintenance, including but not limited to mobile water supply apparatus such as fire boat(s) and/or water tender(s).

Section 2. North Tahoe Fire Prevention Code, Chapter 5, Ordinance No. 03 – 2013 is hereby amended and restated to provide as follows [insertions and strikeouts as noted]:

NTF Fire Prevention Code - Chapter 5

FIRE SERVICE FEATURES

In addition to CFC Chapter 5; IFC Chapter 5, Adopt only those sections that are listed below:

503, 505, 506, 507.1, 507.2, 507.3, 507.5.2, 507.4, 507.5.1.1, 509

IFC - SECTION 507 FIRE PROTECTION WATER SUPPLIES

507.1 Required water supply. An *approved* water supply capable of supplying the required fire flow for fire protection shall be provided to premises upon which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction.

507.2 Type of water supply. A water supply shall consist of reservoirs, pressure tanks, elevated tanks, water mains or other fixed or mobile systems capable of providing the required fire flow.

...

507.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an *approved* method.

507.4 Water supply test. The *fire code official* shall be notified prior to the water supply test. Water supply tests shall be witnessed by the *fire code official* or *approved* documentation of the test shall be provided to the *fire code official* prior to final approval of the water supply system.

...

Section 5.07.5. Exceptions:

1. For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m).
2. For buildings equipped throughout with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2, the distance requirement shall be 600 feet (183 m).
3. For Group R-3 and Group U occupancies, on application to the District and as approved by the fire code official pursuant to California Fire Code §1.11.2.4, *Request for alternate means of protection*, and §1.11.2.5, *Appeals*, in lieu of a fixed water supply system as described in Section 507.2, the property owner may present a plan for cash contribution to the District for acquisition, operations and maintenance of mobile water supply facilities, including fire boat(s) and/or water tender(s), capable of meeting fire flow requirements for the property. The amount of the contribution shall be calculated to assure equity with surrounding properties, after due consideration of the cost of satisfying the fire flow requirements with fixed water supply facilities, near term development and cost share prospects for neighboring properties, and benefit to the District's fire suppression capabilities. Eligibility for alternative mitigation under this section shall be limited to properties where the cost of adding one or more hydrants and water main expansion to meet fire flow requirements for the owner's property in not less than \$75,000.

507.5.1.1 Hydrant for standpipe systems. Buildings equipped with a standpipe system installed in accordance with Section 905 shall have a fire hydrant within 100 feet (30 m) of the fire department connections.

Exception: The distance shall be permitted to exceed 100 feet (30 m) where approved by the *fire code official*.

Section 3. Procedures for Adoption.

- a. The Board shall, before making any modifications or changes pursuant to Health & Safety Code Section 17958.5, shall make an express finding that such modifications or changes are reasonably necessary because of local climatic, geological or topographical conditions. Such a finding shall be available as a public record. A copy of those findings, together with the modification or change expressly marked and identified to which each

finding refers, shall be filed with the California Building Standards Commission. No modification or change shall become effective or operative for any purpose until the finding and the modification or change have been filed with the California Building Standards Commission.

b. This Ordinance shall be introduced at the regular meeting of the North Tahoe Board of Directors scheduled for May 20, 2015 and shall be presented for adoption by the Board at a noticed public hearing scheduled for the regular meeting of the North Tahoe Board of Directors scheduled for July 15, 2015. The public meeting is hereby set for July 15, 2015, at 4:30 o'clock p.m., at the administrative offices of the District, 222 Fairway Drive, P.O. Box 5879, Tahoe City, California 96145.

(i) The clerk of the Board shall cause a proposed ordinance or proposed amendment to an ordinance, and any ordinance adopted by the Board, to be published at least once, in a newspaper of general circulation published and circulated in the Board's area of jurisdiction.

(ii) The publication of an ordinance, as required by subdivision (a), may be satisfied by either of the following actions:

(A) The Board may publish a summary of a proposed ordinance or proposed amendment to an ordinance. The summary shall be prepared by a person designated by the Board. The summary shall be published and a certified copy of the full text of the proposed ordinance or proposed amendment shall be posted in the office of the clerk of the Board at least five days prior to the Board meeting at which the proposed ordinance or amendment is to be adopted. Within 15 days after adoption of the ordinance or amendment, the Board shall publish a summary of the ordinance or amendment with the names of those Board members voting for and against the ordinance or amendment and the clerk shall post in the office of the clerk a certified copy of the full text of the adopted ordinance or amendment along with the names of those Board members voting for and against the ordinance or amendment.

(B) If the person designated by the Board determines that it is not feasible to prepare a fair and adequate summary of the proposed ordinance or amendment, and if the Board so orders, a display advertisement of at least one-quarter of a page in a newspaper of general circulation in the Board's area of jurisdiction shall be published at least five days prior to the Board meeting at which the proposed ordinance or amendment is to be adopted. Within 15 days after adoption of the ordinance or amendment, a display advertisement of at least one-quarter of a page shall be published. The advertisement shall indicate the general nature of, and provide information regarding, the adopted ordinance or amendment, including information sufficient to enable the public to obtain copies of the complete text of the ordinance or amendment, and the names of those Board members voting for and against the ordinance or amendment.

c. The foregoing notwithstanding, pursuant to Health & Safety Code §13869.7 the District shall, not less than 30 days prior to noticing this ordinance for public hearing,

provide a copy of that ordinance, together with the adopted findings made pursuant to §13869.7, subdivision (a), to Placer County, the county where the ordinance will apply. Placer County may provide the district with written comments, which shall become part of the fire protection district's public hearing record. The District shall transmit the adopted ordinance to the city, county, or city and county where the ordinance will apply. The legislative body of the city, county, or city and county, may ratify, modify, or deny an adopted ordinance and transmit its determination to the district within 15 days of the determination. No ordinance adopted by the District shall be effective until ratification by the city, county, or city and county where the ordinance will apply. Upon ratification of an adopted ordinance, the city, county, or city and county, shall file a copy of the findings of the District, and any findings of the city, county, or city and county, together with the adopted ordinance expressly marked and identified to which each finding refers, with the Department of Housing and Community Development, California Building Standards Commission.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the NORTH TAHOE FIRE PROTECTION DISTRICT, Tahoe City, California, this 15th day of July, 2015, by the following:

ROLL CALL VOTES:

AYES:	<u>Directors</u>	<u>Lonerche</u>	<u>Cornea</u>	<u>Carnell</u>	<u>Baffone</u>
NOES:	<u>none</u>	_____	_____	_____	_____
ABSTAIN:	<u>none</u>	_____	_____	_____	_____
ABSENT:	<u>Director Pitts</u>	_____	_____	_____	_____

SEAL

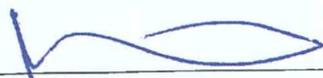
Approved:



President of the Board of Directors, North

Tahoe Fire Protection District

ATTEST:



Clerk of the Board



NORTH TAHOE FIRE PROTECTION DISTRICT

ORDINANCE NO. 02-2015

ERRATA

In order to correct certain typos and non-substantive matters, the following amendments are incorporated into Ordinance No. 02-2015:

1. In the second WHEREAS clause, delete "Health & Safety Code Section 17958.5" and substitute in its place "Health & Safety Code Section 13869.7."
2. In the sixth WHEREAS clause, replace "; and" with a period and delete in its entirety the seventh WHEREAS clause which provides:

"WHEREAS, Health and Safety Code sec. 13869.7 provides that any fire protection district may adopt building standards relating to fire and panic safety that are more stringent than those building standards adopted by the State Fire Marshal and contained in the California Building Standards Code.

3. Add a new Section 4, as follows:

Section 3. Findings. The Findings included in Resolution No. 02-2015, A RESOLUTION FOR THE NORTH TAHOE FIRE PROTECTION DISTRICT PROVIDING FOR INTENTION TO ADOPT ORDINANCE NO. 02 - 2015, AN ORDINANCE FOR THE NORTH TAHOE FIRE PROTECTION DISTRICT ADOPTING THE NORTH TAHOE FIRE PROTECTION DISTRICT PUBLIC PRIVATE PARTNERSHIP FUND FOR INFRASTRUCTURE AND CAPITAL IMPROVEMENTS ("PARTNERSHIP FUND") AND AMENDING THE FIRE PREVENTION CODE OF THE DISTRICT PERTAINING TO ALTERNATIVE MITIGATION TO ASSURE COMPLIANCE WITH FIRE FLOW REQUIREMENTS AND SETTING FORTH FINDINGS WITH RESPECT TO LOCAL CONDITIONS WITHIN THE NORTH TAHOE FIRE PROTECTION DISTRICT WHICH MAKE CERTAIN MODIFICATIONS AND CHANGES TO THE CALIFORNIA FIRE CODE, AS AMENDED BY THE STATE OF CALIFORNIA,

REASONABLY NECESSARY FOR PRESERVING FIRE AND LIFE SAFETY IN THE NORTH TAHOE FIRE PROTECTION DISTRICT, are hereby approved, adopted and incorporated by reference into this Ordinance No. 02-2015.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the NORTH TAHOE FIRE PROTECTION DISTRICT, Tahoe City, California, this 15 day of July, 2015, by the following:

ROLL CALL VOTES:

AYES:	<u>Directors</u>	<u>Lunsde</u>	<u>Correa</u>	<u>Karnell</u>	<u>Ballone</u>
NOES:	_____	_____	_____	_____	_____
ABSTAIN:	_____	_____	_____	_____	_____
ABSENT:	<u>Director Potts</u>	_____	_____	_____	_____

SEAL

Approved:



President of the Board of Directors,
North Tahoe Fire Protection District

ATTEST:



Nita Wracker, Clerk of the Board



**RESOLUTION NO. 08-2015
OF
NORTH TAHOE FIRE PROTECTION DISTRICT
STATE OF CALIFORNIA**

A RESOLUTION FOR THE NORTH TAHOE FIRE PROTECTION DISTRICT PROVIDING FOR INTENTION TO ADOPT ORDINANCE NO. 02 – 2015, AN ORDINANCE FOR THE NORTH TAHOE FIRE PROTECTION DISTRICT ADOPTING THE NORTH TAHOE FIRE PROTECTION DISTRICT PUBLIC PRIVATE PARTNERSHIP FUND FOR INFRASTRUCTURE AND CAPITAL IMPROVEMENTS (“PARTNERSHIP FUND”) AND AMENDING THE FIRE PREVENTION CODE OF THE DISTRICT PERTAINING TO ALTERNATIVE MITIGATION TO ASSURE COMPLIANCE WITH FIRE FLOW REQUIREMENTS AND SETTING FORTH FINDINGS WITH RESPECT TO LOCAL CONDITIONS WITHIN THE NORTH TAHOE FIRE PROTECTION DISTRICT WHICH MAKE CERTAIN MODIFICATIONS AND CHANGES TO THE CALIFORNIA FIRE CODE, AS AMENDED BY THE STATE OF CALIFORNIA, REASONABLY NECESSARY FOR PRESERVING FIRE AND LIFE SAFETY IN THE NORTH TAHOE FIRE PROTECTION DISTRICT

Section 1: The Governing Board of the North Tahoe Fire Protection District finds and resolves as follow:

WHEREAS, Health & Safety Code Section 17958.5 permits a Fire Protection District to adopt an ordinance which changes or modifies the California Fire Code adopted pursuant to Health & Safety Code Section 17922 upon determination that such changes or modifications are necessary due to local conditions; and

WHEREAS, Health & Safety Code Section 17958.7 requires that a Board of Directors making any changes or modifications pursuant to Health & Safety Code Section 17958.5 shall make express finding that such changes or modifications are needed; and shall file a copy of change or modification and said finding with the Department of Housing and Community Development.

NOW, THEREFORE BE IT

RESOLVED AND ORDERED, that Ordinance No. 02 – 2015, in the form attached hereto be introduced at the regular Board meeting of North Tahoe Fire Protection District in June, 2015 and be set for noticed public hearing and adoption at the next regular Board meeting scheduled for not less than 30 days thereafter; and further

RESOLVED AND ORDERED that insofar as Ordinance No. 02 – 2015 of the North Tahoe Fire Protection District may change or modify the State Housing Regulations, California Fire Code, adopted pursuant to Health & Safety Code Section 17922, as to the requirements listed in the conclusion of this finding. The Board of the North Tahoe Fire Protection District, after having duly noticed and held public hearing, expressly finds that such change or modification is reasonably necessary because of local conditions as more specifically set forth as follows:

**FINDINGS OF FACT AND NEED
FOR CHANGES OF MODIFICATIONS
TO THE STATE BUILDING STANDARDS CODE
BECAUSE OF LOCAL CONDITIONS**

CHANGES OR MODIFICATIONS: Pursuant to Section 17958.5, 17958.7 and 18941.5 of the California Health & Safety Code, the Board of Directors of the North Tahoe Fire Protection District, in its ordinance adopting and amending the 2012 edition of the International Fire Code and the 2013 California Fire Code, changes or modifies certain provisions of the 2013 Building Standards Code, Part 9 (Title 24,CCR), as it pertains to the regulation of buildings used for human habitation and other types of structures, and general rules for fire safety. A copy of Ordinance No. 02 – 2015, with the text of such changes or modifications is attached.

FINDINGS: Pursuant to Sections 17958.5, 17958.7 and 18941.5 of the Health & Safety Code, the Board of Directors of the North Tahoe Fire Protection District has determined and finds that the attached changes or modifications to the 2013 California Building Standards Code are needed and are reasonably necessary because of local climatic, geographic and topographic conditions.

LOCAL CONDITIONS: Local conditions have an adverse effect on the prevention of (1) major loss fires, (2) major earthquake damage, and (3) the potential for life and property loss, making necessary changes or modifications to the aforementioned codes making up the 2013 California Building Standards Code in order to provide a reasonable degree of property security and fire and life safety in this jurisdiction.

Below are listed adverse local climatic, geographic and topographic conditions.

I Climatic

a. Precipitation.

Annual precipitation fluctuates greatly. Approximately 90 – 95 percent of the precipitation occurs during the months of November through April, and 5 – 10 percent occurs from May through October. This area has experienced major droughts in the recent past; one in 1977 – 1978, one which started in 1989 and lasted into 1994, one from 1999 – 2004, one from 2006 – 2009 and the current drought, in its fourth year, with extreme drought conditions affecting the District and most of California and Western Nevada. It is possible that more droughts will occur in the future. Electrical storms are frequent and are usually accompanied by little rainfall, potentially creating numerous lightening caused fires.

b. Relative Humidity.

During the summer months (June through September), the daily humidity generally ranges around 30 percent, and often drops to the low teens. During a recent wildland fire where 5 homes were lost, the relative humidity was at 9 percent.

c. Temperatures.

During the summer months (June through September), the daily temperatures commonly exceed 70 degrees Fahrenheit, with temperatures having been recorded as high as 90 degrees. Winter temperatures can drop to below 0 degrees Fahrenheit.

d. Winds.

The prevailing winds are out of the south and southwest. However, north and east winds occur during the spring (May through June), the fall (late September and October), and occasionally during the summer months (June through September). Wind velocities are generally in the range of five to fifteen miles per hour, gusting to thirty miles per hour during the summer months, with ridge top winds of seventy miles per hour or more.

e. Summary.

These local climatic conditions affect the acceleration, intensity, and size of fire in our service area. Times of little or no rainfall, of low humidity and high temperatures create extremely hazardous conditions, particularly as they relate to the wildland – urban interface. The winds experienced in this area can have a tremendous impact upon structure fires of buildings in close proximity to one another, and to wild lands commonly found in the North Tahoe Fire District.

II. Geographic and Topographic

The fire environment of a community is primarily a combination of two factors: the area's physical geographic characteristics and the historic pattern of development. These two factors, alone and combined, create a mixture of environments that ultimately determines the area's fire protection needs.

The basic geographical boundaries of the North Tahoe Fire Protection service area include all of Placer County at Lake Tahoe, including along Highway 89 to Alpine Meadows Road. The District has contracts with Alpine Springs County Water District and with Meeks Bay Fire Protection District to provide certain fire service management services as well as fire suppression, rescue and other authorized services in their respective spheres of influence.

Because of the size of our service area (31 square miles) and changes in elevation, the characteristics of the fire environment change from one location to the next. As such, our service area has not one, but a number of fire environments, each of which has its individual fire protection needs.

Our service area has a varied topography and vegetative cover. It has relatively flat area along the shoreline turning to steep hills as part of the Tahoe Basin. The vegetative cover ranges from stands of manzanita to dense forests of Douglas fir and pines. Development has occurred as the communities have extended north and west.

Water supply for fire flow is provided by a mix of public utility districts, mutual water companies and private water companies. Many areas of the District, including the lake front homes, suffer from suffer from inadequately sized water mains and hydrant locations not meeting minimum standards of the California Fire Code. While new construction and major remodels are required to meet current fire flow standards, the cost of extending water mains and

establishing new hydrant locations can be very high and projected new growth does not provide assurance of District wide water supplies meeting the minimum standards of the California Fire Code.

a. Seismic Location.

The relatively young geological processes that have created our area if service are still active today. Our service area incorporates a portion of the North Tahoe, West Tahoe, and Dollar Point earthquake faults and is adjacent to several other potentially active faults. The District's entire land surface is in the high-to-moderate seismic hazard zones.

b. Size and Population.

Our service area covers 31 square miles with a population of 15,000, swelling to over 50,000 during the summer months. Within our service area is 5 fire stations and 50 fire district personnel. The Fire District handles diverse responsibilities including wildland, urban and urban interface, back country and paramedical responses.

c. Roads and Streets.

Many areas of our District are served by sub-standard roads. Due to restrictive land use regulations, much of the current development is in-fill, utilizing lots that were previously deemed unusable. Some planned unit developments are served by private roads, which create access problems (e.g., narrow paved widths and on-street parking). Roadways with less than 20 feet of unobstructed paved surface, with dead-ends longer than 150 feet, with cul-de-sac longer than 800 feet, or with a cul-de-sac diameter of less than 68 feet are considered hazardous in terms of fire access and protection. A large number of roadways within our service area fall into one of the restricted access categories. While development has continued throughout the District, access into individual subdivisions has not changed. Street widths remain marginal, on-street parking remains a problem in all but the newest subdivisions and, in general, ingress and egress are difficult if not impossible during peak season population fluctuations. Numerous subdivisions are served by only one road for both ingress and egress, severely restricting emergency vehicle access into the affected area(s).

d. Topography.

The topography of the District varies from near level, to terrain in excess of a 40 percent slope. Correspondingly, there is much diversity in slope percentages. As a basic rule of thumb, the rate of spread on a wildland fire will double as the slope percentage doubles, all other factors remaining the same.

Most structures, both residential and commercial, are in or are surrounded by heavily forested areas. Due to drought conditions, beetle infestations, and lack of vegetation management in the wildland, much of the area is covered with either dead or dying trees, contributing to extreme fire danger. Elevation ranges from about 6,225 feet at lake level to over 7,200 feet on mountain pass roads, with peaks of over 8000 feet.

e. Vegetation.

Our service area is located in the Sierra Nevada. It varies from sub-alpine forests consisting of aspen and pine trees to pine, fir and cedar forests and substantial brush fields of Manzanita, snow brush, and white thorn. As residential development continues to occur in the District, the clearances between homes have decreased. Additionally, all new development is directly at the edge of or into heavily forested areas. Both of these situations allow for the fire to travel from home to home, forest to home, or home to forest by radiation, convected heat and/or flying embers. Expansion of the residential community into areas of heavier vegetation has resulted in homes existing in close proximity to dense natural foliage. Often such dwellings are completely surrounded by highly combustible vegetation compounding the fire problem from a conflagration point of view.

f. Summary.

The above local geographic and topographic conditions increase the magnitude, exposure, accessibility problems and fire hazards presented to the fire district. In addition, fire following an earthquake has the potential of causing greater loss of life and damage than the earthquake itself.

Other variables may tend to intensify the situation:

- 1) The extent of damage to the water system;
- 2) The extent of isolation due to bridge and/or freeway overpass collapse;
- 3) The extent of roadway damage and/or amount of debris blocking the roadways;
- 4) Climatic conditions (e.g. hot, dry weather with high winds);
- 5) Time of day will influence the amount of traffic on roadways and could intensify the risk to life during normal business hours;
- 6) The availability of timely mutual aid or military assistance;
- 7) The large portion of dwellings with wood shingle roof coverings could result in conflagrations.

Conclusion:

Local climatic, geographic and topographic conditions impact fire prevention efforts, and the frequency, spread, acceleration, intensity and size of fire involving buildings in this community. Further, they impact potential damage to all structures from earthquake and subsequent fire. Therefore it is found to be reasonably necessary that the International Fire Code and the State Building Standards Code be change or modified to mitigate the effects of the above conditions. Augmenting fire flow and accessibility to water supplies is a critical component of the District's planning for major or catastrophic fires or other incidents requiring response by District apparatus and personnel.

Furthermore, California Health & Safety Code Sections 17958.7 and 148941.5 requires that the modification or change be expressly marked and identified as to which each finding refers. Therefore, the North Tahoe Fire Protection District finds that the following table provides code sections that have been modified pursuant to Ordinance No. 02 – 2015 which are building standards as defined in Health & Safety Code Section 18909, and the associated referenced conditions for modification due to local climatic, geographical and topographical reasons.

Section 2: Amendments to the 2013 Edition of the California Fire Code are found reasonably necessary based on the climatic, geographic and/or topographic conditions cited in Section 1 of this Resolution and are listed as follows:

Code Section
Chapter 5

Relevant Findings

Section 507.2 [Fire flow can be established by fixed or mobile water supply systems]. Property owners seeking building permits for properties with inadequate fixed water supply can provide alternative mitigation by funding mobile water supply apparatus which can address water supply, access and risk of fire spread by providing an alternative for meeting fire flow requirements.

Chapter 5

Section 507.5 – Exceptions [Adds new Exception permitting Owner to apply for alternative mitigation by contributing to the funding of mobile water supply apparatus, including fire boat(s) and/or water tender(s)]. This amendment addresses providing equivalent fire flow in areas with inadequate fixed water supply systems, access problems and danger of rapid fire spread.

This Resolution shall take effect and be in force from and after its approval as required by law.

Adopted by the following vote by the Board of Directors of the North Tahoe Fire Protection District this 20th day of May 2015.

AYES: *Directors Lovelace, Cannon, Connor, Potts & Ballance*
NOES: *NONE*
ABSENT: *NONE*



President of the Board, North Tahoe Fire District

ATTEST:



Clerk of the Board