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DEPARTMENT OF
FIRE

CITY OF SACRAMENTO
CALIFORNIA

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GARY COSTAMAGNA
FIRE CHIEF

August 7, 1992

Law and Legislation Committee
Sacramento, California

Honorable Members in Session:

SUBJECT ORDINANCE ADOPTING THE 1991 UNIFORM FIRE CODE AS AMENDED.

LOCATION: CITY

SUMMARY

This report presents an ordinance adopting the 1991 Uniform Fire Code with amendments. The report outlines major variances from the Uniform Fire Code and highlights enhanced fire protection measures.

RECOMMENDATION

It is recommended that the Law and Legislation Committee endorse the proposed ordinance adopting the 1991 Uniform Fire Code, as amended, and refer the ordinance to the full council for enactment.

BACKGROUND INFORMATION

The Fire Department is charged with the task of preventing the loss of life and property from fire and related hazards through fire prevention education and the enforcement of established fire prevention procedures and regulations which are found in the Uniform Fire Code, the State Health and Safety Code and the State Fire Marshal's regulations. The Uniform Fire Code is continually reviewed by a committee of fire, building and related industry experts, and a new edition is published every three (3) years. This ordinance will adopt the latest edition, dated 1991. The amendments to the 1991 code which are recommended include rollovers from the 1982 Uniform Fire Code, extracts from the Uniform Fire Code 1992 Supplement Publication, the County of Sacramento Uniform Fire Code Ordinance and changes originating with this department.

The Fire Department has provided notice of the Law and Legislation Committee meeting and copies of the proposed ordinance to the following organizations for their review:

1. Sacramento Builder's Exchange
2. American Institute of Architects - Central Valley Chapter
3. Building Industry Association of Superior California, Inc.
4. Sacramento Construction Codes Advisory and Appeals Board

The changes, additions and deletions for the 1991 Uniform Fire Code are identified in Attachment "A". An overview of the major items is as follows:

Article 2 Organization, Authority, Duties and Procedures.

Broadens fire department authority to abate a fire hazard caused by an unauthorized change in the use of a building.

The Chief may require that owners of new technologies and processes provide special inspectors and technical reports at no cost to the fire department when the department has no current expert source.

Defines penalties for interference with firefighting operations at fire scenes.

Article 4 Permits.

Adds, deletes, and modifies permits which are issued by the fire department.

Article 9 Definitions.

Adds, modifies or deletes definitions in support of the proposed amendments to the Uniform Fire Code.

Article 10 General Provisions for Fire Safety.

Regulates parking at fire hydrants, fire access roads, provides fire department control of the installation of gates and barriers, ties fire sprinkler system plan submittals, installation, testing, monitoring and maintenance to National Fire Protection Association Standards.

Multi-unit residential occupancies (R-I's) will be required to have fire sprinkler systems based upon type of construction and total square footage.

Regulates commercial kitchen fire extinguishing systems.

Article 11 General Fire Safety Precautions.

Specifies safe storage practices for tires and combustible material.

Regulates open flame use.

Article 14 Fire Alarm Systems.

The purpose of these amendments is to tie installation, testing and maintenance of fire alarm systems to the National Fire Protection Association Standards. Requirements are made for plan review, device and equipment placement, monitoring, certification and annunciation.

Article 24 Airports, Heliports and Helistops.

Changes in this article are keyed to problems experienced with proposed and current helicopter landing sites on the roofs of highrise buildings. Problems addressed are exiting, fuel spillage, helicopter landing weight, clearances from structures, firefighting equipment and plan submittal.

Article 51 Semiconductor Fabrication Facilities Using Hazardous Production Materials.

This article is new and somewhat specialized. It provides for regulation of semiconductor fabrication facilities. The article was written with both industry and safety people providing the necessary expertise.

Article 79 Flammable and Combustible Liquids.

This article is amended to integrate uniform fire code requirements with existing Sacramento City Code and Sacramento County Hazardous Materials Division's regulations and National Fire Protection Association Standards for the installation and removal of tanks containing flammable or combustible liquids. Regulates tank and piping design and engineering, spill control, monitoring, dispensing and plan submittal.

Article 80 Hazardous Materials.

This article was expanded in the 1988 Uniform Fire Code, and again in the 1991 edition. Problems with hazardous materials handling and community awareness are addressed in this expanded chapter.

Appendix II-C Marinas.

Defines firefighter access and addresses exiting.

Requires automatic fire sprinkler systems for marinas and floating structures.

Appendix III-C-A Fire Pump Rooms.

This is a new Appendix containing Sacramento Fire Department requirements for fire pump rooms including minimum construction requirements, drainage, vertical height, and working clearances.

FINANCIAL CONSIDERATIONS

This ordinance establishes several new permit requirements which will generate additional permit fees in an undetermined amount.

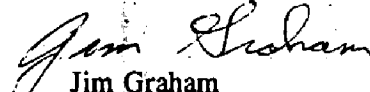
POLICY CONSIDERATIONS

This ordinance reflects the Department's continuing policy to update regulations to achieve the highest level of fire prevention and to safeguard life and property.

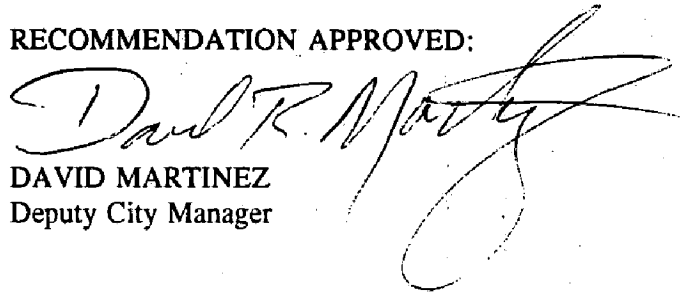
MBE/WBE EFFORTS

None.

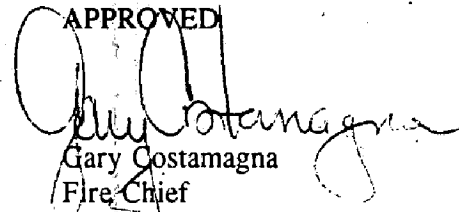
Respectfully Submitted,


Jim Graham
Fire Marshal

RECOMMENDATION APPROVED:


DAVID MARTINEZ
Deputy City Manager

Contact Person:
Jim Krantz
Fire Prevention Officer
264-5480

APPROVED

Gary Costamagna
Fire Chief

LAW AND LEGISLATION
AUGUST 25, 1992
ALL DISTRICTS

Notification List

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ATTACHMENT A

UNIFORM FIRE CODE - 1991

CHANGES TO 1991 UNIFORM FIRE CODE:

In order to adopt the latest revisions of the Uniform Fire Code, the Fire Department has adopted the revisions of the 1992 Supplement to the Uniform Fire Code. The following Articles and Sections revisions are proposed relative to the 1992 Supplement.

Article 9	Definitions	
Sec.	9.116	Nesting
Article 14	Fire Alarm Systems	
Sec.	14.104(a)	General, Manual Fire Alarm Boxes
Sec.	14.104(b)2	Activation of Fire Alarm System
Article 45	Application of Flammable Finishes	
Sec.	45.209(a)	Spray Booths
Article 51	Semiconductor Fabrication Facilities Using Hazardous Production Materials.	
Sec.	51.105(e)3	Gas Detection System
Article 79	Flammable and Combustible Liquids	
Sec.	79.115(b)	Spill Control
Sec.	79.1007(a)	Dispensing From Tank Vehicles
Article 81	High Piled Combustible Storage.	
Sec.	81.105	Designated High Piled Combustible Storage Areas.
Table	81.105-A	Fire Protection Requirements for High-Piled Combustible Storage.
Sec.	81.106	Fire Protection and Detection for Designated High Piled Combustible Storage Areas.
Sec.	81.108(b)	Public Accessible Areas.
Sec.	81.112	Flue Spaces.

The following Revisions and Amendments are proposed with regards to specific Fire Prevention problems. These are existing because of the geological or physical conditions or particular methods of operations which pertain to the area of the City in the Fire Department's jurisdiction.

Article 2 Organization, Authority, Duties and Procedures.

- Sec. 2.108(b) A person failing to obey legal commands or causing interference with fire department operations at a fire scene is guilty of misdemeanor.
- Sec. 2.201(b) This section has been replaced by Chapter 50 of the Sacramento City Code.
- Sec. 2.201(c) Adds that buildings which have no approval for a change of occupancy which has occurred are considered dangerous buildings and shall be vacated.
- Sec. 2.302(a,b,c,d) In order to accept new technologies and processes the Chief may require technical reports made at the owners cost which analyze the fire safety properties of a design or operation. Further it specifies that a special inspector may be required to access conformance with approved design drawings and specifications. Such inspector, paid for by the owner, will report to the Chief when the department has no technical expertise available to conduct the required inspections.
- Sec. 2.303 Appeals are now governed by Sacramento City Code.

Article 3 Compliance with Orders and Notices

- Sec. 3.101 This section is replaced with Section 15.207 (Penalties for Violations) in the City Code.

Article 4 Permits

- Sec. 4.101 This section specifies that to operate without a required permit is unlawful.
- Sec. 4.102(b) Deletes a phrase that a permit may continue until revoked.
- Sec. 4.108 This section adds, or modifies the following permits:
 - (a) Acetylene Generator
 - (a3. 1) Airport - Commercial
 - (a3. 2) Apartments - Private
 - (a3. 3) Apartments: 3 to 8 units
 - (a3. 4) " 9 to 16 units
 - (a3. 5) " 17 to 30 units
 - (a3. 6) " 31 to 60 units
 - (a3. 7) " 61 to 100 units
 - (a3. 8) " 101 to 150 units
 - (a3. 9) " 151 to 200 units
 - (a3.10) " 201 to 250 units
 - (a3.11) " 251 to 300 units
 - (a3.12) " 301 to 350 units

- (a3.13) " 351 to 400 units
- (a3.14) " 401 to 450 units
- (a3.15) " 451 to 500 units
- (a3.16) " 501 to 550 units
- (a3.17) Apartments 551 or more units
- (a3.18) Artist Live/Work

- (b) Bonfires/Recreational Fires

- (c1.1) Calcium Carbide
- (c4.1) Christmas Tree Lots
- (c4.2) Church

- (d) Daycare Commercial 13 to 49
- (da) " " 50 to 99
- (db) " " 100 and over
- (dc) " Large Family 7 to 12
- (dd) Demonstrations and Fire Prevention Talks

- (e) Excavate Flammable Pipelines

- (f) Fire Alarm System
- (f2.1) Fireworks Sale Booth

- (h2.1) Heliport
- (h2.2) Helistop
- (h4) Hotel/Motel - other than Highrise
- (h5) " " - 3 to 8 Rooms
- (h6) " " - 9 to 16 Rooms
- (h7) " " - 17 to 30 Rooms
- (h8) " " - 31 to 60 Rooms
- (h9) " " - 61 and over

- (i) Inspections/Courtesy, Requested

- (i-1) Institutions/Hospitals - Acute
- (i-2) " 50 and over
- (i-3) " 15 less than 50
- (i-4) " less than 14

- (m2.1) Marinas
- (m2.2) Open Flame in Marinas
- (m2.3) Barbecues at Marinas
- (m4) Multiple Story less than 75'
- (m5) " " more than 75'

- (o1.1) Oil and Natural Gas Wells
- (o1.2) Oil Burning Equipment

- (r3) Roofing/Special Application
- (s) Service Station/Flammable Liquids
- (w3) Woodworking/Cabinet Shop
Molding Shop
- (f1) deletes hydrant permits
- (f2) modifies (Fireworks)
- (m.2) Adds partially covered malls to permit section.
- (p3) Pyrotechnical Special Effects Material

- Sec. 4.108(b) Bonfire/Recreational Fires, This addition allows fire department to permit for bonfires/recreational fires.
- Sec. 4.108C1.1 Calcium Carbide Storage. This addition allows fire department to permit for the storage of calcium carbide.

Article 9 Definitions

- Sec. 9.103 defines apartment house and artist live workspace
- Sec. 9.106 defines daycares
- Sec. 9.107 defines electronic monitoring system and exit discharge area
- Sec. 9.108 defines fire apparatus access roads and fire lanes
- Sec. 9.110 Defines Heliport, Helistop and Emergency Helistop
- Sec. 9.114 defines local alarm
- Sec. 9.115 adds a definition for partially covered mall under the definition of mall. Refers to definition of marinas to Appendix II-C and defines multiple story buildings.
- Sec. 9.116 Negligent is defined as required for Article 13.
- Sec. 9.121 Street is defined for refinement of access roads/fire lanes for Article 10.

Article 10 General Provisions for Fire Safety

- Sec. 10.105(a) Extracted in part from the California Vehicle Code, clarifies parking infractions for hydrants.
- Sec. 10.204(g) Fire department approval is required for gates or barriers installed on access roads.
- Sec. 10.301(a) Clarifies where, when and how buildings must be identified with numbers or addresses.
- Sec. 10.401 Needed to control water supplies to individual buildings with a fire department connection and a water supply control valve.
- Sec. 10.503 Specifies that separate plans must be submitted for fire protection systems by qualified persons in 3 sets, also requires 24 hour notice in advance for all tests. Contractors who repeatedly fail system tests are subject to additional fees.

- Sec. 10.504(a) Fire protection systems must be maintained and repaired promptly where defective, extended where required. All works by qualified individuals, the Fire Department to be notified when work is performed, when systems are restored.
- Sec. 10.506(a) Fire department connections must identify the buildings they serve.
- Sec. 10.507(i) Requires fire sprinklers in new buildings. Requires sprinklers if mandated by as change of occupancy. Requires sprinklers if building additions are extensive.
- Sec. 10.508(a) Requires electrical supervision for automatic sprinkler systems to approved central stations.
- Sec. 10.508(b) Requires sprinkler system valves to be locked in the open position.
- Sec. 10.509(c) Requires smoke or heat detection for vaults if sprinklers cannot be installed.
- Sec. 10.513(b) Requires fire sprinklers in hood ducts as well as service access doors.
- Sec. 10.513(c) Fires in cooking equipment shall cause a building, if equipped with an alarm system, to go into alarm. Hood fires must be separately annunciated.
- Sec. 10.513(e) Requires that hood and ducts be cleaned at least every six months but allows fire department to require more frequent intervals for busier kitchens.
- Article 11 General Fire Safety Precautions.
- Sec. 11.103 Requires permits to store tires outdoors, store combustible material, conduct open burning, use flame producing devices for roofing applications and to operate a parade float.
- Sec. 11.203(e) Reduces exposures by specifying the distance of open flame operation from structures.
- Sec. 11.302(b) Reduces exposures by specifying the location of dumpsters to structures.
- Sec. 11.303(b)1 Requiring storage to be 3 feet from the ceiling allows for firefighting access.
- Sec. 11.303(f)4 Storage practices for tire piles.
- Sec. 11.402(c) The Chief may require added fire protection for open flame roofing operations.
- Article 12 Maintenance of Exits and Emergency Escapes and Occupant Load Control.
- Sec. 12.112(a) Provides that exiting shall be conducted in a safe manner.
- Article 13 General Emergency Procedures.
- Sec. 13.203 Persons who willfully or negligently cause false alarms are responsible for costs of response.

Article 14 Fire Alarm Systems.

- Sec. 14.101 Provides that installation of fire alarms shall be in accordance with NFPA standards.
- Sec. 14.103(a) Plans must be submitted, reviewed and approved before installation.
- Sec. 14.103(e) Refers to Article 10 for plan submittal requirements.
- Sec. 14.103(f) Alarm control panel location specifications.
- Sec. 14.103(h) Allows combination of public address and fire alarm systems.
- Sec. 14.103(i) Requires a permit for alarm system regulated by Article 14.
- Sec. 14.104(b) In assemblies equipped with stage areas, fire protection required in dressing rooms, stage areas, and alarms shall stop other sound/visual stage effects.
- Sec. 14.104(c)3 Provides regulation of special egress control devices. Provides life safety system override for electric door systems.
- Sec. 14.104(c)4 Controls location of fire alarm panels in accordance with 14.103(f).
- Sec. 14.104(c)5 Directs High Rise concerns to the City Code.
- Sec. 14.104(g)2 Locates manual fire alarm boxes within the exit path in compliance with 14.104(a).
- Sec. 14.104(g)5 Provides for audible alarms throughout building.
- Sec. 14.104(g)6 Provides that hotel/apartment dwelling unit smoke detectors be annunciated only.
- Sec. 14.105 Fire alarm systems are to be supervised by an approved central station meeting requirements of NFPA 71.
- Sec. 14.106(a) Fire alarm systems shall be used for fire alarms only.
- Sec. 14.106(b) Smoke control systems shall not be adversely affected by kitchen hood ventilation systems.
- Sec. 14.107 Provides specifics in an attempt to standardize fire alarm annunciation.
- Sec. 14.108 Maintenance of fire alarm systems in accordance with national standards.
- Sec. 14.108(b) The Fire Department must be notified if fire alarm systems are down for repair or testing.
- Sec. 14.108(c) Requires that fire alarm systems shall not be reset by owners or representatives unless directed to do so by the fire department.

Article 24 Heliports/Helistops

- Sec. 24.101(a) This section redesignated from 24.101.
- Sec. 24.101(b) Refers definitions to Article 9.
- Sec. 24.102 Allows the fire department to permit private and commercial airports, heliports and/or helistops. This section also includes structures for aircraft refueling, repair and servicing.
- Sec. 24.301(a) Redesignated from 24.301.
- Sec. 24.301(b) Plans for helistops shall be submitted to the fire department for approval. There is no current city agency which is required to review these plans.
- Sec. 24.302 Makes wording consistent with FAA definitions.
- Sec. 24.303 Helistops shall be provided with a fuel spillage containment system which is subject to the approval of the Chief.

Sec.	24.304	Requires two exits from a landing pad and a minimum exiting width.
	(a)(b)(c)(d)(e)	
Sec.	24.306(a)	Requires helistops be designed in accordance with Federal Aviation Standards T21.
Sec.	24.306(b)	Requires helistops to hold a minimum 10,000 pounds live load.
Sec.	24.307(a)	Requires a Class II standpipe system to be provided for at least one of the helistop exit stairwells.
Sec.	24.307(b)	Requires a 4A60BC fire extinguisher be installed near the helistop stairwell.
Article 25	Places of Assembly.	
Sec.	25.103(a)	Refers to Section 2.302 to determine the acceptability of materials.
Sec.	25.115	Prohibits flame devices using flammable gas in assemblies.
Article 30	Lumber Yards and Woodworking Plants.	
Sec.	30.101	Requires a permit for a woodworking shop, cabinet shop or molding shop.
Article 32	Tents, Canopies and Temporary Ambient Structures.	
Sec.	32.114(a)	Refers to exit sign requirements in Article 12.
Sec.	32.105-A	Table for location, access and parking for tents has been updated.
Article 35	Covered Mall Buildings.	
Sec.	35.101	Defines mall, both covered and partially covered.
Sec.	35.104(c)	Refers to Article 25, Division V which governs gas fueled equipment.
Sec.	35.104(h)	Open flame devices and barbecues shall not be operated in a mall.
Article 45	Special Processes.	
Sec.	45.207(b)	Clarifies construction requirements for limited spraying areas.
Sec.	45.209(a)	Provides that spray booths and spray rooms and associated ducts and plenums be protected by automatic fire sprinklers.
Article 49	Welding and Cutting.	
Sec.	49.101(c)	Requires a permit for an acetylene generator.
Article 51	Semi-conductor Fabrication Facilities Using Hazardous Production Materials.	
Sec.	51.104(a)	References Article 14 for fire alarm system requirements.

Article 61	Special Equipment.	
Sec.	61.102	Requires permit for oil burning equipment regulated by Article 61.
Sec.	61.105(c)	Limits unvented oil burning heating appliances to use in M occupancies.
Article 77	Explosive Materials.	
Sec.	77.101	Directs to City Code for handling /sale/use of Class C fireworks and to CCR Title 19 for Class B fireworks.
Article 78	Fireworks and Pyrotechnic Special Effects Material.	
Article	78	Article 78 is deleted since City Code, Chapter 15 and Title 19 CCR replaces its requirements.
Article 79	Flammable and Combustible Liquids.	
Sec.	79.101	Adds item (c) that testing of pipelines shall be in accordance with State Fire Marshal's regulations.
Sec.	79.105-A	Table restricts amounts of Class I flammables stored in containers and portable tanks.
Sec.	79.106(a)	Requires that tanks be of sound engineering design. Tanks should be listed.
Sec.	79.114	Restricts sources of ignition where flammable vapors could be present.
Sec.	79.116(a)	Tank removal shall be in accordance with City Code Chapter 16.
Sec.	79.116(e)	Tanks out of service one year must be removed from the ground, the Chief may allow abandonment in place under certain conditions.
Sec.	79.116(f)	Used tanks may not be reinstalled.
Sec.	79.201(f)	Class I flammable liquids may not be stored or displayed in basements.
Sec.	79.402	Plans are required for storage or more than 100 gallons of flammable and/or combustible liquids.
Sec.	79.502	Deletes the excerpts for concrete lined reservoirs (they are no longer used).
Sec.	79.601(b)	Requires that underground tanks be surrounded by at least 1 foot of sand or clean gravel and when subjected to overhead traffic covered with 3 feet of earth plus six inches of reinforced concrete.
Sec.	79.601(e)	Used tanks shall not be reinstalled.
Sec.	79.601(f)	Tank lining, opening, cleaning, testing, shall be in accordance with the Sacramento City Code.
Sec.	79.604(b)2	Tank openings shall be equipped with a lockable liquid tight cap or cover.
Sec.	79.604(b)3	Tank fill openings shall be separate from vent openings and shall be locked.
Sec.	79.605	Describes overflow protection during filling operations and provided requirements for audible and visual alarms which either automatically shut off flow or reduce flow due to overfilling.

Sec.	79.606	Indicates that daily inventory records of tank volumes shall be maintained in accordance with 79.902(f).
Sec.	79.607(a,b,c)	Provides guidelines for the testing of underground tanks and piping.
Sec.	79.607(d)	Specifies that used tanks may not be reinstalled.
Sec.	79.608	A site assessment must be completed by the owner in the event of a spill or leak or discharge from a tank system.
Sec.	79.706	An attempt to delete the use of pipe joints dependent upon friction characteristics for liquid tightness.
Sec.	79.708	Pneumatic tests shall be with inert gas.
Sec.	79.802(b)	The character of occupancies may limit the number of control areas.
Sec.	79.803(c)	Refer spill control requirements to 79.115.
Sec.	79.807d)2	Disallows the dispensing of Class II and III-A liquids by gravity.
Sec.	79.902(a)	Provides requirements for storage of Class I liquids.
Sec.	79.902(b)	Disallows storage of Class I liquids in buildings containing basements or pits into which flammable vapor could travel.
Sec.	79.902(c)5	Restricts tanks storing Class I and II liquids to 1,000 gallons. Restricts tanks storing Class III liquids to 6,000 gallons or 18,000 gallons.
Sec.	79.902(e)	Mandates annual testing of tank leak detecting devices as specified in Sacramento City Code Chapter 16.
Sec.	79.902(f)	Tank inventory records shall be kept in accordance with City Code Chapter 16.
Sec.	79.903(e)2	Requires listed automatic closing hose nozzle valves with a latch open device for motor vehicle fuel dispensing stations.
Sec.	79.903(f)	The station operators view of the dispensing area shall not be obstructed. Alternative means of supervision may be approved.
Sec.	79.903(f)2D	A publicly accessible telephone used as a fire alarm transmitting device may be approved by the Chief.
Sec.	79.903(g)	Bulk plant aboveground tanks may not be connected by piping to a motor vehicle dispensing station.
Sec.	79.904(c)	An error in wording was corrected from, "which are not of combustible or at least one hour fire resistive construction", to "which are combustible or are of one hour fire resistive construction."
Sec.	79.910(c)2	Deletes wording which allows connections between aboveground and underground tanks from bulk plants to marine motor vehicle fuel dispensing stations.
Sec.	79.1005	Deletes the use of approved self closing faucets as a means of dispensing Class I and Class II liquids. There is a history of fire problems with this type of dispensing.
Sec.	79.1006(a)	Deletes the use of single walled aboveground tanks unless a secondary containment system as approved by the Chief is installed.
Sec.	79.1006(b)	This section has been changed to require security for tank fill openings.
Sec.	79.1203(n)	Makes illegal for tank truck operations or attendants to deliver to non-conforming tanks.
Sec.	79.1208	Added to require placard signs as per D.O.T. regulations for tank vehicles.
Sec.	79.1310(a)	Removes the phrase "Tend To" replacing it with "will control".

Sec.	79.1311(c)	Adds the phrase "fire flow requirements shall be established by the Chief."
Sec.	79.1410(b)	Requires that a portable fire extinguisher with a rating of 40B is available at bulk plant and terminal sites.
Article 81 High-Piled Combustible Storage.		
Sec.	81.106(c)	Requires fire alarm and sprinkler systems to be in accordance with Article 14 and Article 10.
Sec.	81.107(c)5	Provides construction, fire protection, and access requirements for the fire control panel room.
Sec.	81.107(c)5E	Provides for a graphic diagram in the fire control room.
Sec.	81.112	Provides that flue spaces shall be free of storage.
Article 82 Liquified Petroleum Gases.		
Sec.	82.106(b)	Location and automatic shut off requirements for LPG dispensing.
Sec.	82.106(e)	The discharging of tank vehicle cargo shall be in plain view of the operator.
Sec.	82.113(b)	Tanks not used for 30 days shall be considered permanently out of service.
Article 87 Fire Safety During Construction.		
Sec.	87.103(e)	Burning of waste material on construction sites is prohibited.
Sec.	87.103(r)	Describes how combustible construction materials shall be stored at construction sites.
Appendix I-A		
Sec.	2(d)2	Correcting a word error in the sixth paragraph from 'rooms' to 'roofs'.
Sec.	8	Provides a barrier on stairways to prevent persons from continuing into the basement during evacuations.
Appendix I-C		
Sec.	2, 3	Criteria given for stairway signs.
Appendix II-C		
Sec.	3	Requires a permit to operate a marina.
Sec.	6c	Attempts to define firefighting access points at marinas.
Sec.	6e	Requires a fire sprinkler system for marina structures.
Sec.	9	Defines exit requirements at marinas.
Appendix II-F		
Sec.	1	Policies and procedures for aboveground tanks, deletion of the remainder of the appendix.

Appendix III-C

- | | |
|----------|---|
| Sec. 1a | Expands sprinklers testing requirements to Title 19 UFC 14-1 and NFPA 13. |
| Sec. 2d | Requires an alarm within 90 seconds when the inspector's test valve is opened. |
| Sec. 3b4 | Provides that system outlet testing shall include verifying the required water pressure at that outlet. |

Appendix III-C-A

This is a new Appendix which defines Sacramento Fire Department requirements for fire pump rooms.

The following articles have no changes:

- Article 1
- Article 26, 27, 28, 29
- Article 31, 33, 34, 36
- Article 46, 47, 48
- Article 50
- Article 62, 63
- Article 74, 75, 76
- Article 80, 83, 84, 85, 86, 88

The following appendices have no changes:

- Appendix I-B
- Appendix II-A, II-B, II-D
- Appendix III-A, III-B, III-D
- Appendix IV-A, IV-B
- Appendix V-A
- Appendix VI-A, VI-B, VI-D, VI-E, A-VI-E, VI-F

ORDINANCE NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**AN ORDINANCE AMENDING DIVISION I OF ARTICLE II OF
CHAPTER 15 OF THE SACRAMENTO CITY CODE RELATING TO
FIRE PREVENTION AND ADOPTING THE UNIFORM FIRE CODE,
1991 EDITION, SAVE AND EXCEPT SUCH PORTIONS AS ARE
DELETED, ADDED OR AMENDED.**

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

SECTION 1.

Article II of Chapter 15 of the Sacramento City Code is hereby amended to read as follows:

Article II. Fire Prevention Code

Sec. 15.200 Adoption of Uniform Fire Code.

There is hereby adopted by the City, a municipal corporation, pursuant to the provisions of its City Charter and also Article 2 (commencing with Section 50020) Chapter 1, Division 1, Title 5 of the Government Code, for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion, that certain code known as the Uniform Fire Code, 1991 Edition, excluding Appendices 11-E, A-11-E-a, V1-C, A-V1-C-1, A-V1-C-2, A-V1-C-3, A-V1-C-4, A-V1-C-5 thereof, as recommended by the Western Fire Chiefs Association and the International Conference of Building Officials, save and except such portions as are hereinafter deleted, added or amended.

The Uniform Fire Code, 1991 Edition, is enacted by reference pursuant to the provisions of Section 50022.2 of the Government Code, and prior to the enactment of this article the City Council duly and regularly held a public hearing after the publication of notice in accordance with Section 6066 of the Government Code.

Sec. 15.201 Short title.

The Uniform Fire Code, as adopted by Section 15.200 with such deletions, amendments and additions thereof as are set forth in this article, shall be known and may be cited as the "Fire

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Prevention Code" of the city. It shall be sufficient to designate any ordinance adding to or amending or repealing this code or a section thereof as an amendment to or addition to or a repeal of a section of the Fire Prevention Code of the City. (Ord. 3430, S1)

Sec. 15.202 Amendment of Section 2.108, Uniform Fire Code.

Section 2.108(b) is amended by adding a sentence at the end of the paragraph as follows:

Any person failing to obey such commands shall be guilty of a misdemeanor.

Sec. 15.203 Amendment of Section 2.201(b), Uniform Fire Code.

Section 2.201(b) is amended by deleting the last sentence of the paragraph and replacing it with:

See Chapter 50 of the Sacramento City Code.

Section 2.201 is amended by adding subsection (c) to read as follows:

- (c) Any building not in compliance with Section 502 U.B.C. (Change of Occupancy) shall be considered a fire hazard and shall be vacated until a certificate of occupancy is issued by the building inspections division.

Sec. 15.204 Amendment of Section 2.302, Uniform Fire Code.

Section 2.302 is amended to read as follows:

- (a) To determine the acceptability of technologies, processes, products, facilities, materials and uses attending the design, operation or use of a building or premises subject to the inspection of the department, the chief is authorized to require the owner or the person in possession or control of the building or the premises to provide, without charge to the jurisdiction, a technical opinion and report. The opinion and report shall be prepared by a qualified engineer, specialist, laboratory or fire-safety specialty organization acceptable to the chief and the owner and shall analyze the fire safety properties of the design, operation or use of the building or premises and the facilities and appurtenances situated thereon, to recommend necessary changes.
- (b) Duties and Responsibilities of the special inspector:
 - 1. The special inspector shall observe the work assigned for conformance with the approved design drawings and specifications.

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2. The special inspector shall furnish inspection reports to the Chief, building official, and other designated persons as required by the Chief. All discrepancies shall be brought to the immediate attention of the contractor for correction, then if uncorrected, to the proper design authority, Chief, and to the building official.
 3. The special inspector shall submit a final signed report stating whether the work requiring inspection was, to the best of his knowledge, in conformance with the approved plans and specifications and the applicable workmanship provision of this code.
- (c) The Chief or his designated representatives may require the owner or the person in possession or control of the building or premises to provide, without charge to the fire department, a special inspector, when the department has no technical expertise available to conduct the required inspections.
- (d) The special inspector shall be a qualified person who shall demonstrate his competence to the satisfaction of the Chief, for inspection of a particular type of construction, operation, fire extinguishing or detection system, or process.

Sec. 15.205 Deletion of Section 2.303.

Section 2.303 is deleted. All appeals described in Section 2.303 shall be governed by Article XIX of Chapter 9 of the Sacramento City Code or any successor provisions thereto.

Sec. 15.206 Amendment of Section 3.101, Uniform Fire Code.

Section 3.101 is amended to read as follows:

Penalties for violations. Any person violating any provision of the following sections or articles of the Uniform Fire Code, as they may be amended, is guilty of a misdemeanor:

Section 2.108, Section 2.201, Section 3.101, Section 3.104, Section 4.102, Section 10.104, Section 10.207, Section 11.602, Section 11.603, Section 13.202, Article 12, Article 25, Article 33, Article 77.

Any person violating any other provision of the Uniform Fire Code is guilty of an infraction.

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Sec. 15.207 Amendment of Section 4.101, Uniform Fire Code.

Section 4.101 is amended to read as follows:

Section 4.101 Permits and Certificates. It shall be unlawful for any person, firm or corporation to use a building or premises or engage in any activities for which a permit is required by this code without first having obtained such permit. Permits are required from the bureau of fire prevention. The provisions of this article apply to permits required by Section 4.108 or other provisions of this code.

Sec. 15.208 Amendment of Section 4.102(b), Uniform Fire Code.

Section 4.102(b) is amended by deleting in the first sentence of the paragraph the phrase:

"- until revoked or -"

Sec. 15.209 Amendment of Section 4.108, Uniform Fire Code.

Section 4.108 is amended by adding, deleting, or modifying the following activities, operations, practices or functions:

Additions:

- a Acetylene Generator. To operate portable or fixed generators, see 49.110, 112.
- a.3.1 Airport - Commercial. To operate an airport, see Article 24.
- a.3.2 Airport - Private. To operate a private airport, see Article 24.
- a3.3 Apartments 3 to 8 units.
- a3.4 Apartments 9 to 16 units.
- a3.5 Apartments 17 to 30 units.
- a3.6 Apartments 31 to 60 units.
- a3.7 Apartments 61 to 100 units.
- a3.8 Apartments 101 to 150 units.
- a3.9 Apartments 151 to 200 units.
- a3.10 Apartments 201 to 250 units.
- a3.11 Apartments 251 to 300 units.
- a3.12 Apartments 301 to 350 units.
- a3.13 Apartments 351 to 400 units.
- a3.14 Apartments 401 to 450 units.

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- a3.15 Apartments 451 to 500 units.
- a3.16 Apartments 501 to 550 units.
- a3.17 Apartments 551 or more units.

- a3.18 Artist Live/Work. To maintain an artist's work space containing living accommodations. See Sacramento City Code Chapter 9, Article 28.

- b. Bonfires/Recreational Fires.

- c1.1 Calcium Carbide.

- c4.1 Christmas Tree Lots. (See Sacramento City Code, Section 15.401). To operate a tree lot and to receive a deposit refund from the permit fee if the lot is clear and clean after use.

- c.4.2 Church. See Article 25.

- d. Day Care - Commercial, 13 to 49, see Article 9.
- da. Day Care - Commercial, 50 to 99, see Article 9.
- db. Day Care - Commercial, 100 and over, see Article 9.
- dc. Day Care - Large Family, 7 to 12, see Article 9.
- dd. Demonstrations/Fire Prevention Talks.

- e. Excavate Flammable Pipeline(s), see Article 79.

- f. Fire Alarm System. To install or operate a fire alarm system regulated by Article 14.

- f2.1 Fireworks Sale Booth. See Chapter 15 SCC.

- h.2.2 Heliport. To operate a heliport not on an established airport, see Article 24.
- h.2.3 Helistop. To operate a helistop not on an established airport, see Article 24.

- h4. Hotel, Motel - 3 to 8 rooms.
- h5. Hotel, Motel - 9 to 16 rooms.
- h6. Hotel, Motel - 17 to 30 rooms.
- h7. Hotel, Motel - 31 to 60 rooms.
- h8. Hotel, Motel - 61 and + rooms.

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- i Inspections/Courtesy, Requested.
- i-1 Institutions/Hospitals - Acute.
- i-2 Institutions 50 + .
- i-3 Institutions 15 +, less than 50.
- i-4 Institutions less than 14.
- m2.1 Marina. To operate a marina. See Appendix II-C.
- m2.2 Marina - Open Flame. To use open flame for vessel maintenance and repair. See Appendix II-C.
- m2.3 Marina - Barbecue. To use open flame for cooking purposes at a marina. See Appendix II-C.
- m4 Multiple Story Building - 3 stories to less than 75 feet in height.
- m5 Multiple Story Building - 75 feet or more in height.
- o.1.1 Oil and natural gas wells.
- o1.2 Oil Burning Equipment.
- R3 Roofing/Special Application. To operate a flame producing device for roofing application. See Article Eleven (11.405).
- S Service Station, Flammable Combustible Liquids and Tanks. See Article 79.
- W3 Woodworking Shop/Cabinet, Molding shop. See Article 30.

Deletions:

- f1 (Handled by City Water Department).

Modifications:

- f2 Fireworks, For Permits For Fireworks, See Sacramento City Code, Chapter 15, Article III.
- m.2 Mall Covered or Partially Covered. See definition 9.115 and Article 35. To use a covered or partially covered mall in the following manner:

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- A. Placing or constructing temporary kiosks, display booths, concession equipment or the like in the mall.
 - B. To use a mall as a place of assembly.
 - C. Deleted. See Section 35.104(h).
 - D. To display any liquid or gas-fueled powered equipment.
- p.3 For permits for pyrotechnical special effects material, See Chapter 15 SCC and Title 19 CCR.

Sec. 15.210 Amendment of Section 9.103, Uniform Fire Code.

Section 9.103 is amended by modifying APARTMENT HOUSE and adding ARTIST LIVE/WORK SPACE as follows:

APARTMENT HOUSE is any building, or portion thereof, which contains three or more dwelling units including residential condominiums containing common areas.

ARTIST LIVE/WORK SPACE is an artist workshop which contains living quarters and which may be used for artistic display/demonstrations with an occupant load of less than 50. Identified as an ALW occupancy within its own classification.

Sec. 15.211 Amendment of Section 9.106, Uniform Fire Code.

Section 9.106 is amended by adding:

DAY CARE - COMMERCIAL is any nonresidential building or portion thereof used for day care purposes for more than 6 children/persons. Also any residential building used for day care purposes for more than 12 children/persons.

DAY CARE - LARGE FAMILY is a State licensed residence which provides day care for 7-12 children/persons inclusive.

Sec. 15.212 Amendment of Section 9.107, Uniform Fire Code.

Section 9.107 is amended by adding:

ELECTRONIC MONITORING SYSTEM is an approved method to electronically detect and transmit to an approved alarm service provider's Type A (listed) Central Station, information

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indicating that the automatic fire sprinkler system or electronic fire detection system has been activated. The approved alarm service provider's Type A (listed) Central Station then shall have the ability to relay the alarm to Sacramento City Fire Communications Center in an approved manner.

EXIT DISCHARGE AREA is an area designated for occupant discharge, dispersal or refuge (see 12.112(a)).

Sec. 15.213 Amendment of Section 9.108, Uniform Fire Code.

Section 9.108 is amended by adding:

FIRE APPARATUS ACCESS ROAD is a required access roadway having an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches. (See Article 10, Division II).

FIRE LANE is a fire apparatus access road - See definition for fire apparatus access road and Article 10, Division II.

Sec. 15.214 Amendment of Section 9.110, Uniform Fire Code.

Section 9.110 is amended by adding:

HELIPORT is an area of land or water or a structural surface which is used, or intended for use, for the landing and takeoff of helicopters, and any appurtenant areas which are used, or intended for use, for heliport buildings and other heliport facilities.

HELISTOP is the same as a heliport, except that no refueling, maintenance, repairs or storage of helicopters is permitted.

Sec. 15.215 Amendment of Section 9.114, Uniform Fire Code.

Section 9.114 is amended by adding:

LOCAL ALARM is any visual/audio device used for alerting building occupants.

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Sec. 15.216 Amendment of Section 9.115, Uniform Fire Code.

Section 9.115 is amended by adding Marina and Multiple Story Building and by modifying Mall to read as follows:

MALL is a roofed or covered common pedestrian area within a covered or partially covered mall building which serves as access for two or more tenants and may have three levels that are open to each other.

MARINA. See Appendix II-C, Section 4.

MULTIPLE STORY BUILDING is a building containing 3 or more stories.

Sec. 15.217 Amendment of Section 9.116, Uniform Fire Code.

Section 9.116 is amended by adding:

NEGLIGENT is lacking of proper care or concern, or disregarding or ignoring, or failing to care for or give proper attention to.

NESTING is a method of securing cylinders upright in a tight mass using a contiguous three-point contact system whereby all cylinders within a group have a minimum of three points of contact with other cylinders, walls or bracing.

Sec. 15.218 Amendment of Section 9.121, Uniform Fire Code.

Section 9.121 is amended by modifying Street to read as follows:

STREET is any thoroughfare or public way not less than 16 feet in width which has been dedicated or deeded to the public for public use. See Article 10, Division II, Fire Apparatus Access Roads.

Sec. 15.219 Amendment of Section 10.105(a), Uniform Fire Code.

Section 10.105(a) is amended by adding:

1. To park, place or leave standing any unattended vehicle within 15 feet of any public or private fire hydrant along any public or private street or roadway shall be an infraction.

EXCEPTION: A. If the vehicle is owned or operated by a fire department and is clearly marked as a fire department vehicle.

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- B. Where distance from hydrant is indicated by signs or markings.
2. To place any other obstruction, material, or thing within 15 feet of any public or private fire hydrant along any public or private street or roadway shall be an infraction.

Sec. 15.220 Amendment of Section 10.204, Uniform Fire Code.

Section 10.204 is amended by adding subsection (g) as follows:

- (g) Gates/Barriers. Installation of gates/barriers on access roads shall be approved by the Fire Department.

Sec. 15.221 Amendment of Section 10.301(a), Uniform Fire Code.

Section 10.301(a) is amended to read as follows:

Premises identification shall be in accordance with this section and the Uniform Building Code.

Approved numbers or addresses shall be placed on all new and existing buildings and fire department connections and shall be in accordance with items 1, 2 and 3 of this section. Numbers and addresses shall be placed on a contrasting background and shall be in such a position as to be plainly visible and legible from the street or road fronting the property.

1. Numbers or addresses shall be displayed on the rear of buildings containing multiple tenant spaces where vehicle access is available to the rear by means of driveways, parking lots, or alleyways. Doors servicing individual tenant spaces, and doors serving alleyways shall be marked with numbers or addresses.
2. Numbers or addresses shall be displayed on the rear of tenant spaces served by corridors, exit corridors or exit yards.
3. Numbers or addresses shall be placed over the entrance door where tenant spaces front on interior walkways or pedestrian malls.
4. Illuminated annunciators and/or directory boards shall be required at each entrance as deemed necessary by the Chief.

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Section 10.401 is amended by adding a sentence at the end of the paragraph to read as follows:

The fire sprinkler system in each building shall be supplied by an individual water main.

Sec. 15.223 Amendment of Section 10.503, Uniform Fire Code.

Section 10.503 is amended to read as follows:

Approval and testing. All fire alarm systems, fire hydrant systems, fire extinguishing systems (including automatic sprinklers), wet and dry standpipes, basement inlet pipes, and other fire protection systems and appurtenances thereto shall meet the approval of the fire department as to installation and location and shall be subject to such periodic tests as required by the Chief.

1. For other than pre-engineered systems, all plans for proposed fixed fire protection systems shall bear the stamp of approval of a qualified registered professional engineer or a fire protection contractor licensed for said work by the State of California. Plans shall be provided at no cost to the Fire Department.
2. Three copies of the complete plans, specifications, and information regarding the fire detection system or fire protection system including specifications and floor plans shall be submitted to the fire department or the Chief's designated representatives, for approval prior to installation and/or construction. Plan approval shall be required prior to issuance of a building permit. All automatic fire protection and electronic fire detection system plans and calculations shall bear the stamp of approval of a qualified registered professional engineer or a fire protection contractor (C-16) or fire alarm contractor (C-7, C-10, or C-61/DO5), licensed for said work by the State of California. One copy may be retained by the Chief.
3. The fire department having jurisdiction shall be notified at least twenty-four (24) hours in advance of all tests relating to the installation of the aforementioned systems or appliances.
4. All design and installation shall be according to the latest edition of the recognized standards as noted in UFC Section 2.304 (a) and (b) and/or Appendix V-A, unless the Chief agrees to a different edition.
5. When a test or inspection is scheduled and the contractor fails to perform to the satisfaction of the authority having jurisdiction, the authority having jurisdiction may bill the contractor for actual time spent traveling to and from the test/inspection location and

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the time spent at the test/inspection site as well as administrative costs.

Sec. 15.224 Amendment of Section 10.504(a), Uniform Fire Code.

Section 10.504(a) is amended to read as follows:

- General. 1. All sprinkler systems, fire hydrant systems, standpipes, fire alarm systems, portable fire extinguishers, smoke and heat ventilators, smoke-removal systems and other fire protection or extinguishing systems or appliances shall be maintained in an operative condition at all times and shall be replaced or repaired where defective. The fire department having jurisdiction shall be notified immediately by the building owner, his agent or service company, of any malfunction of any fire protection equipment, extinguishing system, and at any time when repair, or maintenance of same are to be performed. All work shall be promptly completed without interruption and protection restored as promptly as possible.
2. When changes or repairs involve shutting off water from any number of sprinklers for more than two hours, temporary water supply connections shall be made to sprinkler systems so that reasonable protection can be maintained. Protection shall be restored each night. The Chief may require a fire watch while any system is inoperative.
3. All additions, repairs, alterations and servicing shall be in accordance with recognized standards. All individuals or companies installing repairing, testing, servicing or maintaining sprinkler systems, fire hydrant systems, standpipes, fire alarm systems, portable fire extinguishers, smoke and heat ventilators, smoke-removal systems and other fire protection or extinguishing systems or appliances shall be a fire protection contractor or contractor licensed for said work by the State of California and have the appropriate license required by the California State Fire Marshal's Office.

Sec. 15.225 Amendment of Section 10.506(a), Uniform Fire Code.

Section 10.506(a) is amended by adding:

1. Fire extinguishing systems shall be installed in accordance with this code and the building code.
2. When required by the Chief, fire department connections shall identify the building(s) they supply.

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Sec. 15.226 Amendment of Section 10.507, Uniform Fire Code.

Section 10.507 is amended by adding subsection (i) as follows:

- (i) In addition to the above requirements: **ALL OCCUPANCIES EXCEPT GROUP R, DIVISION 3.** Except for Group R, Division 3 occupancies, an approved automatic sprinkler system equipped with an approved monitoring system shall be installed:
1. In every new building where the total square footage of all floors exceeds the amount shown in Table 10.507 for such building. For the provisions of this section, area separation walls shall not apply to eliminate the installation of a sprinkler system.
 2. In every building where there is a change in occupancy to a more restrictive occupancy class or to which there are additions to the building exceeding 20 percent of the square footage of the existing building, and where the total square footage of all floors (including any addition) exceeds the amount shown in table 10.507 for such building. For the provisions of this section, area separation walls shall not apply to eliminate the installation of a sprinkler system.

**TABLE NO. 10.507
TYPES OF CONSTRUCTIONS***

Based on ISO Water Flow Requirements

I	II			III		IV	V	
FR	FR	ONE HOUR	N	ONE HOUR	N-R	HT	ONE HOUR	N-R
34,300	19,000	19,300	19,300	12,300	12,300	15,200	5,500	5,500

N-No requirement for fire resistance.
FR-Fire resistive.
HT- Heavy Timber.
*See part IV, Uniform Building Code for definitions.

3. Any building which is forty (40) feet or more in height as defined in the Uniform Building Code. For the provision of this section, area separation walls shall not apply to eliminate the installation of a sprinkler system.
4. Any building which is four (4) or more stories as defined in the Uniform Building Code regardless of height. For the provision of this section, area separation walls shall not apply to eliminate the installation of a sprinkler system.
5. Residential or quick response standard sprinkler heads shall be used in the dwelling units and guest room portions of the building.

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Sec. 15.227 Amendment of Section 10.508, Uniform Fire Code.

Section 10.508 is amended to read as follows:

- (a) All valves controlling the water supply for automatic sprinkler systems and water flow switches on all sprinkler systems shall be electrically supervised by an approved alarm service provider Type A (listed) central station. The approved central station or alarm company shall issue an approved NFPA 71 or 72C type certificate on each system it monitors.

Valve supervision and water flow alarm and trouble signals shall be distinctly different and shall be automatically transmitted to an approved alarm service provider Type A (listed) central station. (See Section 14.103(e)).

EXCEPTION. Underground key or hub valves in roadway boxes provided by the municipality or public utility need not be supervised.

- (b) Valves controlling sprinkler systems shall be maintained in an open position by locking the valve open in an approved manner. (See 10.301(a)).

Sec. 15.228 Amendment of Section 10.509(c), Uniform Fire Code.

Section 10.509(c) is amended by adding a sentence at the end of the subsection to read as follows:

Smoke and/or heat detection shall be required for such vaults.

Sec. 15.229 Amendment of Section 10.513, Uniform Fire Code.

Section 10.513(b) is amended by adding:

1. Hood duct protection. Automatic fire sprinkler protection installed in accordance with NFPA 13 shall be required for hood duct protection along the entire length of duct.

EXCEPTION: Ducting less than 10 feet in length.

2. Access Doors. Access doors of the required rating shall be provided along the length of the duct to service duct fire sprinklers.

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Section 10.513(c) is amended by adding a paragraph at the end of the subsection as follows:

Automatic or manual activation of the fire suppression system provided for protection of commercial type food-heat processing equipment shall cause an alarm to be automatically transmitted to the building main fire alarm system and shall be annunciated on a separate zone. (See UFC 14.106b).

Section 10.513(e) is amended by modifying the last sentence in the subsection to read as follows:

- (e) Cleaning. Hoods, grease removal devices, ducts and other appurtenances shall be cleaned at least every six months and at more frequent intervals as required.

Sec. 15.230 Amendment of Section 11.103, Uniform Fire Code.

Section 11.103 is amended to read as follows:

Permits are required to conduct open burning, bonfires and recreational fires, use flame producing devices for the application of roofing, store tires outdoors, store combustible material and operate a parade float as set forth in Section 4.108.

Sec. 15.231 Amendment of Section 11.203(e), Uniform Fire Code.

Section 11.203(e) is amended to read as follows:

Location of open burning shall not be conducted within 50 feet of any structure or other combustible material. Conditions which could cause the fire to spread to within 50 feet of a structure shall be eliminated prior to ignition. The size and location of the fire shall be designated by the permit.

EXCEPTION: Clearance from structures and other combustible material is allowed to be reduced as follows:

- (1) Not less than 15 feet when burning is conducted in an approved burning appliance.
- (2) Not less than 25 feet when the pile size is 3 feet or less in diameter and 2 feet or less in height.

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Sec. 15.232 Amendment of Section 11.302(b), Uniform Fire Code.

Section 11.302(b) is amended to read as follows:

Dumpsters, trash, trash receptacles and containers shall not be located within 10 feet of combustible walls, building openings, combustible roof eave lines or overhangs. Trash, trash receptacles, dumpsters or similar containers shall not obstruct any exit, access, fire lane or public way. (Also see UFC Section 10.205).

EXCEPTIONS:

- (1) Areas containing dumpsters or containers protected by an approved automatic sprinkler system.
- (2) Structures of Type I and II fire resistive construction used for dumpster or container storage located not less than 10 feet from other buildings.

Sec. 15.233 Amendment of Section 11.303(b), Uniform Fire Code.

Section 11.303(b)1 is amended to read as follows:

- (b) Storage in Buildings. (1) Ceiling Clearance. Storage of combustible material in buildings shall be orderly and maintained not less than 3 feet from the ceiling and not less than 18 inches below sprinkler head deflectors.

Sec. 15.234 Amendment of Section 11.303(f), Uniform Fire Code.

Section 11.303(f) is amended by adding item 4 to read as follows:

4. The height of tire storage piles shall be measured from surrounding grade. Tires shall not be stored below grade. Excavating for the purpose of below grade tire storage is prohibited.

Sec. 15.235 Amendment of Section 11.402(c), Uniform Fire Code.

Section 11.402(c) is amended by adding a sentence at the end of the subsection to read as follows:

Additional fire protection equipment may be required by the chief.

Sec. 15.236 Amendment of Section 12.112(a), Uniform Fire Code.

Section 12.112(a) is amended to read as follows:

All exits shall discharge directly to the street, or to a yard, court or other open space that gives safe access to a public way. The streets to which the exits discharge shall be of width adequate to accommodate all persons leaving the building. Yards, courts or other open spaces to which exits discharge shall also be of adequate width and size to provide all persons leaving the building with ready access to the streets.

1. Where any doorway, ramp, walkway, stairway or ladder landing exits directly into the path of vehicular traffic, an adequate barrier and warning shall be installed to prevent persons from stepping directly into vehicular traffic.
2. Exit stairs that continue beyond the floor of discharge shall be interrupted at the floor of discharge by partitions, doors or other physical barriers.
3. Areas designated for occupant discharge, dispersal or refuge shall be maintained unobstructed and clear of storage.

Sec. 15.237 Amendment of Section 13.203, Uniform Fire Code.

Section 13.203 is amended to read as follows:

Any person or entity who willfully or negligently sends, transmits, or sounds any false alarm or fire, by means of any fire alarm system or signal or by any other means or methods, is responsible for all costs incurred by the fire department related to any response.

Sec. 15.238 Amendment of Section 14.101, Uniform Fire Code.

Section 14.101 is amended to read as follows:

Installation and maintenance of fire alarm systems shall be in accordance with this article and NFPA Standards NFPA 72, 72E, 72F, and 72H. The regulations contained in this article require the installation of electrically supervised fire alarm systems. For the purpose of this article, area separation walls shall not define separate buildings.

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Sec. 15.239 Amendment of Section 14.103, Uniform Fire Code.

Section 14.103(a) is amended to read as follows:

- (a) Plans and Specifications. Complete plans and specifications for fire alarm systems shall be submitted for review and approval prior to system installation. Plans and specifications shall include, but not be limited to, a floor plan, location of all alarm - initiating and alarm-signaling devices, alarm control and trouble signaling equipment, annunciation, power connections, battery calculations, wiring type and sizes and alarm matrix/sequence of operation, and California State Fire Marshal listing number.

Section 14.103(e) is amended by adding a sentence at the end of the subsection as follows:

- (e) Also see UFC Section 10.508.

Section 14.103(f) is amended to read as follows:

- (f) Location and Security. The alarm control unit shall be located in an accessible location at the building main entrance. Such locations shall not include storage rooms, closets, janitor rooms, telephone equipment rooms, electrical rooms or similar areas. For alarm control unit locations in high rise buildings, see Chapter 15 of the Sacramento City Code Life Safety Requirements for High Rise Buildings.

Sec. 15.240 Addition to 14.103, Uniform Fire Code.

Section 14.103 is amended by adding subsection (h) as follows:

- (h) Combination System. Where a fire alarm and public address system are combined it shall meet requirements in NFPA 72F.

Section 14.103 is amended by adding subsection (i) as follows:

- (i) A permit is required to install, modify or maintain a fire alarm system. See 4.108.

Sec. 15.241 Amendment of Section 14.104, Uniform Fire Code.

Section 14.104(a) is amended to read as follows:

1. An approved manual, automatic or manual and automatic fire alarm system shall be provided in accordance with this section.

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2. **Manual Fire Alarm Boxes.** When a manual fire alarm system is required, manual fire alarm boxes shall be distributed throughout so that they are readily accessible, unobstructed, and are located in the normal path of exit travel from the area and as follows:
 - A. At every exit from every level.
 - B. Additional fire alarm boxes shall be located so that travel distance to the nearest box does not exceed 200 feet.
 - C. Mounting height shall be in accordance with UFC 14-1.

Section 14.104(b) is amended to read as follows:

- (b) **Group A, Divisions 1, 2 and 2.1 occupancies.**
 1. **General.** Group A, Division 1, 2 and 2.1 shall be provided with a manual and automatic fire alarm system in the following manner.
 - A. All dressing rooms/areas of similar purpose shall be provided with smoke detection.
 - B. Stage areas shall be provided with heat detection.
 - C. All other areas shall have manual fire alarm system.
 2. **System Initiation.** Activation of the fire alarm system shall immediately initiate a local alarm (see UFC Standard 14-1) which is audible above ambient noise level of the occupancy. A single smoke detector monitored by an alarm verification zone, the automatic sprinkler system or other approved fire detection device shall automatically:
 - A. Stop confusing sounds and other visual effects.
 - B. Activate approved directional marking, and
 - C. Cause illumination of the exit path with light of not less than one foot candle at the walking surface.
 - D. The public address system may also serve as an alarm and shall be installed per NFPA 72.F

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3. **Emergency Power.** Voice communication and public address systems shall be provided with an approved emergency power source.

Section 14.104(c)3 is amended to read as follows:

Special egress - control devices. When special egress-control devices are installed on exit doors, an automatic smoke detection system shall be installed throughout the building. When exit doors and intervening doors leading to exits are controlled by building security systems, the building life safety system shall override the security systems when the building is in alarm. Standby power supplied to building fire alarm systems shall provide power at a same or greater duration as the building security system is supplied. Upon failure of electrical power, locking mechanisms shall be retracted to the unlocked position. No other system shall adversely affect the unlocking of any door when the building is in an alarm condition.

Section 14.104(c)4 is amended by adding a sentence at the end of the subdivision as follows:

Fire alarm control units shall be located in accordance with 14.103(f).

Section 14.104(c)5 is amended to read as follows:

5. **High Rise Offices.** High rise office occupancies shall be provided with a fire alarm system and a communications system in accordance with the Building Code, Chapter 15 and Chapter 9 of the Sacramento City Code.

Section 14.104(g)2 is amended by adding a sentence at the end of the subdivision as follows:

Manual fire alarm boxes shall also be in compliance with 14.104(a).

Section 14.104(g)5 is amended to read as follows:

5. **System initiating.** When activated, alarm initiating devices shall activate an alarm signal which is audible throughout the building.

Section 14.104(g)6 is amended to read as follows:

6. **Single Station Detectors.** Approved single station smoke detectors shall be installed in dwelling units and hotel or lodging house guest rooms in accordance with the Building Code. Such detectors may be connected to the fire alarm system for annunciation only.

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Sec. 15.242 Amendment of Section 14.105, Uniform Fire Code.

Section 14.105 is amended to read as follows:

Monitoring. Fire alarm systems shall be supervised by an approved central, proprietary or remote station service which meets all requirements of NFPA 71.

Sec. 15.243 Amendment of Section 14.106, Uniform Fire Code.

Section 14.106 is amended by redesignating 14.106 as 14.106(a) and adding subsection (b) as follows:

- (b) The ventilation system required for commercial kitchen hoods shall not be used as part of a building mechanical smoke control system or a building mechanical smoke exhaust system. Operation of a hood system shall not adversely affect any air flow method used as a smoke control or exhaust system. (See UFC Section 10.513).

Sec. 15.244 Amendment of Section 14.107, Uniform Fire Code.

Section 14.107 is amended to read as follows:

Annunciation. Alarm, water flow and trouble signals shall be annunciated in the central control station by means of an audible signal and a visual display which indicates the building, floor, zone or other designated area from which the alarm, water flow or trouble signal originated. For purposes of annunciation, zoning shall be in accordance with the following, unless otherwise deemed necessary by the Chief:

- A. When the system serves more than one building, each building shall be considered as a separate zone.
- B. Each floor shall be considered as a separate zone.
- C. Each section of floor separated by area separation walls or by horizontal exits shall be considered as a separate zone.
- D. Each zone shall display.
 - 1. Every smoke detection zone.
 - 2. Every duct detection zone.
 - 3. Every water flow alarm/tamper zone.
 - 4. Every manual pull station zone.

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5. Every heat detection zone.
6. Any other fire extinguishing system.

Sec. 15.245 Amendment of Section 14.108, Uniform Fire Code.

Section 14.108 is amended to read as follows:

- (a) Fire alarm systems shall be maintained and tested in accordance with this article and NFPA 72h. Fire alarm and detection systems shall be tested in accordance with U.F.C. Standard No. 14-3 and nationally recognized standards.
- (b) When any portion of the life safety system or fire sprinkler system is required to be disconnected, in whole or part, for testing or repair, the fire department shall be notified prior to disconnection and commencement of any work performed. (See UFC 10.504).
- (c) No fire alarm system shall be reset when in an alarm condition by a building owner or representative unless directed to do so by the fire department.

Sec. 15.246 Amendment of Section 24.101, Uniform Fire Code.

Section 24.101 is amended by redesignating 24.101 as 24.101(a) and adding subsection (b) as follows:

- (b) For the definition of HELIPORT, HELISTOP and EMERGENCY HELISTOP, see Article 9.

Sec. 15.247 Amendment of Section 24.102, Uniform Fire Code.

Section 24.102 is amended to read as follows:

Permits. For permits to operate private or commercial airports, heliports and/or helistops, or to use structures or enclosures for aircraft servicing or repair and aircraft fueling vehicles. See Section 4.108.

Sec. 15.248 Amendment of Section 24.301, Uniform Fire Code.

Section 24.301 is amended by redesignating 24.301 as 24.301(a) and adding subsection (b) to read as follows:

- (b) Plans for helistops shall be submitted to the fire department for approval.

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Sec. 15.249 Amendment of Section 24.302, Uniform Fire Code.

Section 24.302 is amended to read as follows:

The take off and landing area shall be surrounded on all sides by a clear area having minimum average width at roof level of 15 feet but no width less than 5 feet. The clear area shall be maintained.

Sec. 15.250 Amendment of Section 24.303, Uniform Fire Code.

Section 24.303 is amended to read as follows:

Helistops shall be provided with a fuel containment system which directs fuel spillage to an approved location. Materials, design and methods are subject to the approval of the Chief. Spilled fuel shall not enter the building or the building's waste water drain system.

Sec. 15.251 Amendment of Section 24.304, Uniform Fire Code.

Section 24.304 is amended to read as follows:

- (a) At least two approved means of egress from the landing pad edge shall be provided which are remotely located from each other to the extent practical.
- (b) The exit path width of each exit path shall be a minimum of 3 feet.
- (c) The required width of exit paths shall not be obstructed by building structural elements.
- (d) The required width of exit paths shall not be obstructed by any machinery or equipment used or required to maintain or repair the building.
- (e) Exits from the helistop shall comply with the definition of exit found in Chapter 33 of the Uniform Building Code.

Sec. 15.252 Amendment of Division III, Article 24, Uniform Fire Code.

Division III of Article 24 is amended by adding Section 24.306 as follows:

- (a) Helistops shall be designed in accordance with Title 21, Division of Aeronautics, Subchapter 2 and the U.S. Department of Transportation Federal Aviation Administration Advisory Circular 150/5390-2, January 4, 1988.

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- (b) Helistops shall be designed to support a minimum 10,000 pounds live load.

Division III of Article 24 is amended by adding Section 24.307 as follows:

- (a) A Class II standpipe system shall be provided on the exterior within 10 feet from of the helistop exit stairs.
- (b) A minimum 4A60BC fire extinguisher shall be installed near the helistop stair.

Sec. 15.253 Amendment of Section 25.103(a), Uniform Fire Code.

Section 25.103(a) is amended by adding a sentence at the end of the subsection as follows:

Also see 2.302(a).

Sec. 15.254 Amendment of Section 25.115, Uniform Fire Code.

Section 25.115 is amended by adding exception No. 3 as follows:

Open flame devices using portable containers of flammable gas are prohibited. (See Article 82).

Sec. 15.255 Amendment of Section 30.101, Uniform Fire Code.

Section 30.101 is amended to read as follows:

Permits. For a permit to operate a woodworking shop, cabinet shop, molding shop or similar operation or for a permit to store lumber in excess of 100,000 board feet, see Section 4.108.

Sec. 15.256 Amendment of Section 32.114(a), Uniform Fire Code.

Section 32.114(a) is amended by adding a sentence at the end of the subsection as follows:

See Article 12, Section 12.111, subsections (a), (b), (c), (d), (e) and (f).

Sec. 15.257 Amendment of Table 32.105-A, Uniform Fire Code.

Table 32.105-A is amended by retaining the footnotes unchanged and changing the table to read as follows:

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**TABLE NO. 32.105-A LOCATION, ACCESS AND
PARKING FOR TENTS, CANOPIES AND
TEMPORARY MEMBRANE STRUCTURES**

FLOOR AREA (Square Feet)	MINIMUM SEPARATION FROM ANY PROPERTY LINE, BUILDING, OTHER TENT, CANOPY, OR TEMPORARY MEMBRANE STRUCTURE ¹	MINIMUM FIRE ACCESS ROADWAY WIDTH ²	MINIMUM DISTANCES FOR THE PARKING OF AUTOMOBILES OR OTHER INTERNAL COMBUSTION ENGINES
0-5,000	20 feet ²	20 feet	30 feet
5,000-15,000	30 feet ²	20 feet	40 feet
Over 15,000	50 feet ²	20 feet	60 feet

Sec. 15.258 Amendment of Section 35.101, Uniform Fire Code.

Section 35.101 is amended to read as follows:

Temporary use of the common pedestrian area within a covered or partially covered mall building for promotional, educational, assembly, sales or similar activities shall be in accordance with this article.

Sec. 15.259 Amendment of Section 35.104, Uniform Fire Code.

Section 35.104(c) is amended by adding a sentence at the end of the subsection as follows:

See Article 25 Division V.

Section 35.104 is amended by adding subsection (h) to read as follows:

Open flame devices and barbecues shall not be operated in mall areas.

Sec. 15.260 Amendment of Section 45.207(b), Uniform Fire Code.

Section 45.207(b) is amended to read as follows:

- (b) **Occupancy.** Limited spraying areas shall be built and maintained in accordance with the Building Code requirements for a Group H Division 4 occupancy. Use and dispensing in excess of control area amounts shall be in accordance with UFC Article 80.

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Sec. 15.261 Amendment of Section 45.209(a), Uniform Fire Code.

Section 45.209(a) is amended to read as follows:

General. Spray booths and spraying rooms shall be protected by approved automatic fire sprinkler systems. Such systems shall be extended to protect exhaust plenums, exhaust ducts and both sides of dry filters when such filters are used. For installation of automatic sprinklers in ducts, see the Uniform Mechanical Code.

Sec. 15.262 Amendment of Section 49.101(c), Uniform Fire Code.

Section 49.101(c) is amended to read as follows:

For a permit to conduct welding and cutting operations or to operate an acetylene generator, see Section 4.108.

Sec. 15.263 Amendment of Section 51.104(a), Uniform Fire Code.

Section 51.104(a) is amended by adding a sentence at the end of the subsection to read as follows:

See UFC Section 14.101.

Sec. 15.264 Amendment of Section 51.105(e)3, Uniform Fire Code.

Section 51.105(e)3 is amended to read as follows:

3. Gas Detection System. When hazardous production material gas is used or dispensed and the physiological warning properties for the gas are at a higher level than the accepted permissible exposure limit for the gas, a continuous gas detection system shall be provided to detect the presence of a short-term hazard condition. When dispensing occurs and flammable gases or vapors could be present in quantities in excess of 20 per cent of the lower explosive limit, a continuous gas detection system shall be provided. The detection system shall be connected to the emergency control station.

Sec. 15.265 Amendment of Section 61.102, Uniform Fire Code.

Section 61.102 is amended by adding a sentence at the end of the section to read as follows:

A permit is required for oil burning equipment regulated by this article.

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Sec. 15.266 Amendment of Section 61.105(c), Uniform Fire Code.

Section 61.105(c) is amended to read as follows:

Location. The use of listed portable unvented oil-burning heating appliances shall be limited to supplemental heating in Group M occupancies.

EXCEPTION: When approved by the Chief, portable unvented oil-burning heating appliances may be used in any occupancy during the construction process when such use is necessary for the construction and the use does not represent a hazard to life or property.

Sec. 15.267 Amendment of Section 77.101, Uniform Fire Code.

Section 77.101 is amended by modifying exceptions No. 3 and 10 to read as follows:

3. For sale, possession or use of Class C, common fireworks, see Sacramento City Code Chapter 15.
10. The use and handling of Class B fireworks as set forth in Title 19 CCR.

Sec. 15.268 Deletion of Article 78, Uniform Fire Code.

Article 78 of the Uniform Fire Code is deleted.

Article III of, Chapter 15, Sacramento City Code, and Title 19, CCR replace requirements of this article.

Sec. 15.269 Amendment of Section 79.101, Uniform Fire Code.

Section 79.101 is amended by adding subsection (c) as follows:

- (c) Transportation Pipelines. The testing and maintenance of pipelines used for the transportation of flammable and combustible liquids shall be in accordance with State Fire Marshal's regulations.

Sec. 15.270 Amendment of Table 79.105-A, Uniform Fire Code.

Table 79.105-A is amended by retaining the footnotes unchanged and changing the table to read as follows:

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**TABLE NO. 79.105-A MAXIMUM SIZE
OF CONTAINERS AND PORTABLE TANKS**

<u>Container Type</u>	<u>FLAMMABLE LIQUIDS</u>			<u>COMBUSTIBLE LIQUIDS</u>	
	<u>Class IA</u>	<u>Class IB</u>	<u>CLASS IC</u>	<u>CLASS II</u>	<u>CLASS III</u>
<u>Glass¹</u>	<u>1 pt.</u>	<u>1 pt.</u>	<u>1 pt.</u>	<u>1 gal.</u>	<u>5 gal.</u>
<u>Metal (Other than DOT drums)</u>	<u>1 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>
<u>Approved Plastic</u>	<u>1 gal.</u>	<u>1 gal.</u>	<u>1 gal.</u>	<u>1 gal.</u>	<u>1 gal.</u>
<u>Safety Cans</u>	<u>2 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>	<u>5 gal.</u>
<u>Metal Drums (DOT Spec.)</u>	<u>60 gal.</u>	<u>60 gal.</u>	<u>60 gal.</u>	<u>60 gal.</u>	<u>60 gal.</u>
<u>Approved Portable Tanks</u>	<u>660 gal.</u>	<u>660 gal.</u>	<u>660 gal.</u>	<u>660 gal.</u>	<u>660 gal.</u>
<u>Polyethylene²</u>		<u>Not permitted</u>		<u>60 gal.</u>	<u>60 gal.</u>

Sec. 15.271 Amendment of Section 79.106(b), Uniform Fire Code.

Section 79.106(b) is amended to read as follows:

Fabrication. Tanks shall be of a shape or type consistent with sound engineering design. Tanks listed by a recognized testing laboratory shall be accepted as meeting this requirement. For test leads on steel tanks and piping located underground, see Division VI.

Sec. 15.272 Amendment of Section 79.114, Uniform Fire Code.

Section 79.114 is amended to read as follows:

Sources of Ignition. In locations where flammable vapors could be present, precautions shall be taken to prevent ignition by eliminating or controlling sources of ignition. Tanks shall not be cut, punctured, altered, repaired or scrapped by use of torch, cutting torch, metal tools, saws, snipper or other device which may cause ignition of flammable vapors. Removal of piping or fixture repair shall be conducted with non sparking tools.

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Sec. 15.273 Amendment of Section 79.115(b), Uniform Fire Code.

Section 79.115(b) is amended to read as follows:

- (b) **Spill Control.** When spill control is required, floors of rooms, buildings or areas containing flammable or combustible liquids shall be recessed a minimum of 4 inches or shall be provided with a liquid tight raised sill to a minimum height of 4 inches so as to prevent the flow of liquids to adjoining areas. Except for surfacing the sill shall be constructed of non-combustible material, and the liquid tight seal shall be compatible with the material being stored. When raised sills are provided, they are not required at perimeter openings which are provided with an open gate trench across the opening that connects to an approved drainage control system.

Sec. 15.274 Amendment of Section 79.116, Uniform Fire Code.

Section 79.116(a) is amended by adding a sentence at the end of the subsection as follows:

Tanks taken out of service shall be safeguarded or removed in accordance with this section and Chapter 16 of the Sacramento City Code.

Section 79.116(e) is amended to read as follows:

Underground tanks out of service for one year. Underground tanks which have been out of service for a period of one year shall be removed from the ground in a manner approved by the Chief and the site shall be restored in an approved manner. When the Chief determines that the removal of the tank is physically prohibitive due to its location, condition, or proximity to structures, abandonment in place may be permitted.

Tanks removed from the ground shall be removed in accordance with Section 79.116(c) 1B.

Tanks abandoned in place shall be in accordance with Chapter 16 of the Sacramento City Code.

Section 79.116(f) is amended to read as follows:

Reinstallation of Tanks. Used and/or reprocessed tanks shall not be reinstalled.

Sec. 15.275 Amendment of Section 79.201(f), Uniform Fire Code.

Section 79.201(f) is amended to read as follows:

Storage in basements. Class I liquids shall not be stored or displayed in basements.

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Sec. 15.276 Amendment of Section 79.402, Uniform Fire Code.

Section 79.402 is amended to read as follows:

Plans shall be submitted with each application for a permit to store more than 100 gallons of liquids in drums or tanks.

The plans shall indicate the methods of storage, quantities to be stored, distances from buildings and property lines, access ways, fire protection facilities and provisions for drainage and run-off. Storage shall in accordance with approved plans.

Sec. 15.277 Amendment of Section 79.502, Uniform Fire Code.

Section 79.502 is amended as follows:

The exception is deleted.

Sec. 15.278 Amendment of Section 79.601, Uniform Fire Code.

Section 79.601(b) is amended by modifying the second sentence of the first paragraph to read as follows:

Underground tanks shall be set on firm foundations and surrounded with at least one foot of noncorrosive inert material such as clean sand or gravel well tamped in place or in accordance with the manufacturer's installation instructions.

-AND-

By modifying the fourth sentence of the first paragraph to read as follows:

When underground tanks are likely to be subjected to traffic, they shall be protected against damage from vehicles passing over them by at least 3 feet of earth cover, or 30 inches of well-tamped earth plus 6 inches of reinforced concrete, or 8 inches of asphaltic concrete.

Section 79.601(e) is amended to read as follows:

Used and/or reprocessed tanks shall not be reinstalled.

Section 79.601(f) is amended to read as follows:

Tank Lining. Steel tanks are allowed to be lined only for the purpose of protecting the interior

from corrosion or providing compatibility with the material to be stored. Only those liquids tested for compatibility with the lining material are allowed to be stored in lined tanks.

Tank opening, cleaning, preparation, inspection, lining, closing and testing shall be in accordance with Sacramento City Code, Chapter 16 and UFC Standard 79-6 shall not apply.

For permits to alter a tank, see Section 4.108.

Interior-lined underground tanks shall be protected from corrosion in accordance with Section 79.603.

Sec. 15.279 Amendment of Section 79.604(b), Uniform Fire Code.

Section 79.604(b)2 is amended to read:

2. All openings including those for tank secondary containment, access, and openings for manual gauging shall be provided with a lockable liquid type cap or cover. Covers shall be kept locked when not gauging. If inside a building, such openings shall be protected against liquid overflow and possible vapor release by means of a spring-loaded check valve or other approved device.

Section 79.604(b)3 is amended by adding a sentence at the end of the subdivision as follows:

The fill opening shall be equipped with a closure and locked for security. The fill opening shall be separate from the vent opening.

Sec. 15.280 Amendment of Section 79.605, Uniform Fire Code.

Section 79.605 is amended by redesignating the section as 79.607 and adding a new section 79.605 to read as follows:

Overfill Protection

(a) General. Fill pipes shall be equipped with a spill container and an overfill prevention system as specified in this section.

(b) Spill Containers. A spill container shall be provided for each fill pipe to collect liquids by overfilling during tank-filling operations. Containers are allowed to be constructed of single-wall construction. Containers shall a capacity of not less than five gallons and shall be equipped with a drain valve which drains a spill into the primary tank.

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(c) **Overfill Prevention System.** An overfill prevention system shall be provided for each tank. The system shall:

1. Have an alarm which provides an audible and visual signal when the quantity of liquid in the tank reaches 90 percent of tank capacity.
2. Automatically shut off the flow when the quantity of liquid in the tank reaches 95 percent of tank capacity, or
3. Reduce the flow rate to not more than 15 gallons per minute so that, at the reduced flow rate, the tank will not overfill for 30 minutes, and automatically shut off flow into the tank so that none of the fittings on the top of the tank is exposed to product due to overfilling.

Sec. 15.281 Amendment of Division VI of Article 79, Uniform Fire Code.

Division VI of Article 79 is amended by adding Section 79.606 as follows:

Inventory Control

Daily inventory records shall be maintained for underground storage tank systems in accordance with Section 79.902(f).

Division VI of Article 79 is amended by adding Section 79.607 as follows:

Testing

(a) **General.** Before being covered or placed in use, underground tanks and piping shall be tested for tightness in the presence of the Chief. For pipe testing, see Section 79.708. The system shall not be covered until it has been approved.

(b) **New Underground Tanks.** New underground tanks shall be tested for tightness hydrostatically or pneumatically at not less than 3 pounds per square inch and not more than 5 pounds per square inch for 30 minutes. Pneumatic testing shall not be used on a tank containing flammable or combustible liquids or vapors.

(c) **Existing Tanks and Piping.** Existing underground storage tanks and piping shall be tested for leakage at the owner's or operator's expense when the chief has reasonable cause to believe a leak exists. Orders by the chief requiring testing on underground tanks or piping shall indicate that the test be completed by a specified date. Tanks shall be emptied of flammable or combustible liquids and piping and other equipment shall not be used if required tests are not

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completed within the specified time.

When testing is required, owners or operators shall provide the chief with data setting forth the method of testing that is to be used and shall submit the name of a qualified individual who will conduct the test. The method of testing to be used shall consider the effects of temperature, pressure and other variables and shall establish conclusively whether the tank or piping is leaking. Pneumatic testing shall be conducted only with inert gases. For piping see Section 79.708.

Devices used for final testing of tanks shall be capable of detecting leaks as small as 0.05 gallon per hour. Leaking piping and equipment shall not be used until repaired or replaced. For leaking tanks, see Section 79.601(d).

The Chief is authorized to require that the test be conducted in the chief's presence.

(d) Used Tanks. Used tanks shall not be reinstalled.

Site Assessment

In the event of a spill, leak or discharge from a tank system, a site assessment shall be completed by the owner or operator of such tank system if the Chief determines that a potential fire or explosion hazard exists. Site assessments shall be conducted to ascertain potential fire hazards and shall be completed and submitted to the fire department within a time period established by the Chief not to exceed 60 days. See Appendix II-H.

Sec. 15.282 Amendment of Section 79.706, Uniform Fire Code.

Section 79.706 is amended by changing the third paragraph in the section to read as follows:

Pipe joints dependent upon the friction characteristics or resiliency of combustible materials for mechanical continuity or liquid tightness of piping shall not be used.

Sec. 15.283 Amendment of Section 79.708, Uniform Fire Code.

Section 79.708 is amended by modifying the second paragraph in the section to read as follows:

Existing piping shall be tested as described above when the chief has reasonable cause to believe that a leak exists. Pneumatic tests of piping shall be conducted only with inert gas. Such tests shall be at the expense of the owner or operator. See Section 79.607.

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Sec. 15.284 Amendment of Section 79.802(b), Uniform Fire Code.

Section 79.802(b) is amended by adding a sentence at the end of the subsection as follows:

The number of control areas in wholesale and retail stores shall not exceed two. The number of control areas in buildings with other uses shall not exceed four.

Sec. 15.285 Amendment of Section 79.803(c), Uniform Fire Code.

Section 79.803(c) is amended by adding subdivision No. 8 as follows:

8. Containment. Spill control shall be provided in accordance with 79.115.

Sec. 15.286 Amendment of Section 79.807(d)2, Uniform Fire Code.

Section 79.807(d)2 is amended by deleting subdivision (d)2A.

Sec. 15.287 Amendment of Section 79.902, Uniform Fire Code.

Section 79.902(a) is amended to read as follows:

(a) General. Class I, II, and III-A liquids shall be stored in closed containers as specified in Table 79.105-A, or in approved underground storage tanks, or in special enclosures meeting all requirements of the Sacramento Fire Department. Special enclosures shall be listed and tested by a nationally recognized laboratory.

A connection shall not be made between an aboveground tank and an underground tank.

Portable and semiportable tanks may temporarily be used in conjunction with the dispensing of Class I, II or III-A liquids into the fuel tanks of motor vehicles or other motorized equipment on premises not normally accessible to the public when approved by the Chief.

Section 79.902(b) is amended to read as follows:

(b) Class I liquids in basements or pits. Class I liquids shall not be stored or used within a building having a basement or pit into which flammable vapors could travel.

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Section 79.902(c)5 is amended to read as follows:

5. Tank Capacity

Tanks containing Class I, Class II liquids shall not exceed 1,000 gallons individual or aggregate. Tanks containing Class III-A liquids shall not exceed 6,000 gallons individual or 18,000 gallons aggregate.

Section 79.902(e) is amended to read as follows:

- (e) Maintenance Testing. Leak detecting devices shall be tested annually by the owner or occupant of the property on which they are located, and such testing shall meet all requirements of Chapter 16 of the Sacramento City Code. Test results shall be maintained on the premises and available to the Chief upon request.

Section 79.902(f) is amended by adding a sentence at the end of the subsection as follows:

Inventory records shall meet all requirements of Chapter 16 of the Sacramento City Code.

Sec. 15.288 Amendment of Section 79.903, Uniform Fire Code.

Section 79.903(e)2 is amended to read as follows:

2. Nozzles. A listed automatic-closing type hose nozzle valve with a latch open device shall be provided on island type dispensers used for dispensing Class I liquids.

Overhead-type dispensing units shall be provided with a listed automatic self closing type hose nozzle valve with a latch open device.

A listed automatic closing type hose nozzle valve with latch open device is allowed to be used if the design of the system is such that the hose nozzle valve will close automatically in the event the nozzle is released from a fill opening or upon impact with a driveway.

Where dispensing of Class I, II or III-A liquids is performed by someone other than a qualified attendant, a listed automatic-closing-type hose nozzle valve shall be used incorporating the following features:

- A. The hose nozzle valve shall be equipped with an integral latch-open device.
- B. When the flow of product is normally controlled by devices or equipment other than the

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hose nozzle valve, the hose nozzle valve shall not be capable of being opened unless the delivery hose is pressurized. If pressure to the hose is lost, the nozzle shall close automatically.

EXCEPTION: Vapor-recovery nozzles incorporating insertion interlock devices designed to achieve shutoff upon disconnect with vehicle fill pipe.

- C. The hose nozzle shall be designed such that the nozzle is retained in the fill pipe during the filling operation.

Section 79.903(f) is amended by adding the following at the end of the subsection:

The view of the dispensing area shall not be obstructed. Merchandise and signs etc., shall not be placed in such a manner as to obstruct the view.

Alternative means of supervision shall be approved by the Chief.

Section 79.903(f)2D is amended by modifying subdivision 2D as follows:

- 2D. During hours of operation the system's site shall be provided with a fire alarm transmitting device. A publicly accessible telephone not requiring a coin to operate for emergencies may be approved by the Chief as an alternative.

Section 79.903(g) is amended by adding subdivision 6 as follows:

6. Aboveground tanks located at a bulk plant shall not be connected by piping to a public or private motor vehicle dispensing station.

Sec. 15.289 Amendment of Section 79.904(c), Uniform Fire Code.

Section 79.904(c) is amended to read as follows:

Pumps. Pumps installed above grade outside of buildings shall be located not less than 10 feet from lines of adjoining property which can be built upon or from a property line that abuts upon a public right of way or thoroughfare. Pumps shall be located not less than 10 feet from buildings which are combustible or are of one hour fire resistive construction in accordance with the Building Code, or less than 5 feet from building openings.

Pumps installed above grade shall be mounted on a concrete foundation and shall be protected against damage by vehicles.

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Submersible or subsurface pumps shall be installed in accordance with approved standards.

Sec. 15.290 Amendment of Section 79.910(c)2, Uniform Fire Code.

Section 79.910(c)2 is amended to read as follows:

Connections between aboveground and underground tanks. Connections shall not be made between an aboveground tank and an underground tank.

Sec. 15.291 Amendment of Section 79.1005, Uniform Fire Code.

Section 79.1005 is amended to read as follows:

Metal containers having a capacity of not more than 60 gallons may be used for storage of Class I or Class II liquids. Such containers shall be in accordance with the requirements of the U. S. Department of Transportation or shall be of an approved design. Discharge devices shall not be of a type that develops an internal pressure on the container. Pumping devices used for dispensing liquids shall not leak and shall be well maintained. Individual containers shall not be interconnected and shall be kept closed when not in use.

Containers stored outside shall be in accordance with Division IV (outside storage section). Storage inside of a building shall comply with other divisions of this article and the Building Code.

Sec. 15.292 Amendment of Section 79.1006, Uniform Fire Code.

Section 79.1006(a) is amended to read as follows:

The capacity of permanent aboveground tanks containing Class I or II liquids shall not exceed 1,100 gallons. The capacity of temporary aboveground tanks containing Class I or II liquids shall not exceed 10,000 gallons. Tanks shall be of double walled construction or provided with an alternative secondary containment system as approved by the Chief.

Section 79.1006(b) is amended to read as follows:

Fill opening shall be equipped with a closure and locked for security. The fill opening shall be separate from the vent opening.

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Sec. 15.293 Amendment of Section 79.1007, Uniform Fire Code.

Section 79.1007(a) is amended by adding subdivisions 4 through 9 as follows:

4. The dispensing hose shall be properly placed on the approved reel or in a compartment provided before the tank vehicle is moved,
5. Signs prohibiting smoking or open flame within 25 feet of a tank vehicle or the point of refueling shall be prominently posted on the tank vehicle,
6. Electrical devices and wiring in areas where fuel dispensing is conducted shall be in accordance with the Electrical Code,
7. Vapor recovery systems shall be provided in accordance with Section 79.911,
8. Tank vehicle dispensing equipment shall be operated only by designated personnel who are trained to handle and dispense motor fuels, and
9. Provisions shall be made for controlling and mitigating unauthorized discharges.

Sec. 15.294 Amendment of Section 79.1203, Uniform Fire Code.

Section 79.1203 is amended by adding subsection (n) as follows:

- (n). The driver operator or attendant of any tank vehicle shall not make delivery to any storage tank(s) not conforming to Section 79.106. This prohibition includes but is not limited to, tanks utilizing gravity feed dispensing and aboveground tanks in areas where prohibited.

Sec. 15.295 Addition to Division XII, Article 79, Uniform Fire Code.

Division XII of Article 79 is amended by adding Section 79.1208 as follows:

Placard. All tanks vehicles shall comply with regulations set forth by the Department of Transportation (D.O.T.).

Sec. 15.296 Amendment of Section 79.1310(a), Uniform Fire Code.

Section 79.1310(a) is amended to read as follows:

General. Maintenance and operating practices shall be in accordance with established procedures

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which will control leakage and prevent the accidental escape of flammable or combustible liquids. Spills shall be cleaned up promptly.

Sec. 15.297 Amendment of Section 79.1311(c), Uniform Fire Code.

Section 79.1311(c) is amended by adding a sentence at the end of the subsection as follows:

Minimum fire flow requirements shall be established by the Chief.

Sec. 15.298 Amendment of Section 79.1410(b), Uniform Fire Code.

Section 79.1410(b) is amended to read as follows:

Fire Extinguishers. Suitable portable fire extinguishers with a rating of not less than 40-B shall be located within 75 feet of those portions of the facility where fires are likely to occur, such as hose connections, pumps and separator tanks.

Sec. 15.299 Amendment of Section 81.105, Uniform Fire Code.

Section 81.105 is amended to read as follows:

Designated High-Piled Combustible Storage Areas. Designated high-piled combustible storage areas shall be separated from the remainder of the building and other designated high-piled combustible storage areas in accordance with this section.

EXCEPTION: Separation is not required between accessory areas that are fully protected with automatic sprinkler systems. Accessory areas shall include, but need not be limited to, loading areas, check-out areas, restrooms, employee lounges and offices. High-piled combustible storage fire protection shall extend a minimum of 15 feet beyond the designated high-piled storage area.

Separation shall be by one of the following methods:

1. A two-hour area separation wall between areas not protected with automatic sprinkler systems or designated high-piled combustible storage areas in excess of the maximum allowable areas in Table No. 81.105-A,
2. A 60-foot space not used for combustible storage, or
3. A minimum of a one-hour occupancy separation wall between other sprinklered areas that are not accessory to the designated high-piled combustible storage area.

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Table 81.105-A including footnotes is amended as follows:

TABLE NO. 81.105-A--REQUIREMENTS FOR FIRE PROTECTION¹

COM-MODITY CLASS	DESIGNATED HIGH-PILED STORAGE AREA (sq. ft.)	AUTOMATIC FIRE EXTINGUISHING SYSTEM	AUTOMATIC FIRE DETECTION SYSTEM ²	BUILDING ACCESS (Sec. 81.106)	MINIMUM AISLE WIDTH	MAXIMUM PILE DIMENSION ³ (ft.)	MAXIMUM USABLE STORAGE HEIGHT ^{4,5,6} (ft.)	MAXIMUM PILE VOLUME (cu. ft.)	SMOKE REMOVAL		SMALL HOSE CONNECTION	
									Mechanical	Vents	1 1/2" Valves	Additional Equipment ⁷
I-IV	0-500	N/R	N/R	N/R ⁸	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	501-2,500	N/R	Yes	N/R ⁸	8 ft.	100	40	100,000	N/R	N/R	N/R	N/R
	2,501-12,000 Public accessible	Yes	N/R	N/R ⁸	9	100	40	400,000	N/R	N/R	N/R	N/R
	2,501-12,500 Nonpublic accessible Option 1	Yes	N/R	N/R ⁸	9	100	40	400,000	N/R	N/R	N/R	N/R
	2,501-12,000 Nonpublic accessible Option 2	N/R	Yes	Yes	8 ft.	100	40	200,000	Not allowed	Yes	Yes	Yes
	12,001-20,000	Yes	N/R	Yes	9	100	40	400,000	10		N/R	N/R
	20,001-300,000	Yes	N/R	Yes	9	100	40	400,000	10		Yes	Yes
	Greater than 300,000 ¹¹	Yes	12	Yes	9	100	Un-limited	400,000	10		Yes	Yes

(Continued)

TABLE NO. 81.105-A--REQUIREMENTS FOR FIRE PROTECTION¹-(Continued)

COM-MODITY CLASS	DESIGNATED HIGH-PILED STORAGE AREA (sq. ft.)	AUTOMATIC FIRE EXTINGUISHING SYSTEM	AUTOMATIC FIRE DETECTION SYSTEM ²	BUILDING ACCESS (Sec. 81.106)	MINIMUM AISLE WIDTH	MAXIMUM PILE DIMENSION ³ (ft.)	MAXIMUM USABLE STORAGE HEIGHT ^{4,5,6} (ft.)	MAXIMUM PILE VOLUME (cu. ft.)	SMOKE REMOVAL		SMALL HOSE CONNECTION	
									Mechanical	Vents	1 1/2" Valves	Additional Equipment ⁷
V	0-500	N/R	N/R	N/R ⁸	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	501-2,500 public accessible	Yes	N/R	N/R ⁸	9	50	30	75,000	N/R	N/R	N/R	N/R
	501-2,500 Nonpublic accessible Option 1	Yes	N/R	N/R ⁸	9	50	30	75,000	N/R	N/R	N/R	N/R
	501-2,501 ¹³ Nonpublic accessible Option 2	N/R	Yes	Yes	8 ft.	50	20	50,000	N/R	N/R	Yes	Yes
	2,501-50,000 ¹³	Yes	12	Yes	8 ft. ⁷	50	30	75,000	10		Yes	Yes

¹N/R-Not required.

²Fire-detection systems shall be electronically supervised and installed throughout the building.

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³Not applicable to double- or single-row storage with adjacent aisles.

⁴Usable storage height is the distance from the floor to a point not less than 18 inches below the ceiling sprinkler head deflectors.

⁵For storage in excess of 40 feet in height, protection shall be provided as required for designated storage areas exceeding 300,000 square feet.

⁶For Level 2 and Level 3 aerosol products, see Article 88.

⁷When "yes" appears in this column, hoses, nozzles, hose racks and cabinets shall be provided as required by the chief.

⁸Article 10, Division II shall apply.

⁹Access aisles shall be provided as specified in Section 81.108. Where precluded by high-rack storage systems, alternate methods of access and alternate approved methods of protection may be provided as approved by the chief.

¹⁰Smoke and heat vents or mechanical smoke-removal systems shall be provided. The type of system to be used, mechanical or vents, shall be approved by the Chief based on nationally recognized engineering practices.

¹¹Special fire-protection provisions, such as but not limited to, area separation walls, fire protection of exposed steel, in-rack smoke detection, increased sprinkler density or additional in-rack sprinklers shall be provided when required by the Chief.

¹²As required by the Chief.

¹³Nationally recognized standards or guidelines as applicable to specific commodities may be used when approved by the Chief.

Sec. 15.300 Amendment of Section 81.106, Uniform Fire Code.

Section 81.106 is amended to read as follows:

- (a) Fire Protection. Fire protection for buildings used for high piled combustible storage shall be in accordance with Table No. 81.105-A and the Building Code. Nationally recognized standards or guidelines as applicable may be used when approved by the Chief.
- (b) Fire Detection. When required by Table No. 81.105 an approved automatic fire-detection system shall be installed throughout the entire building containing the high-piled combustible storage area. Fire detection systems shall be monitored by an approved monitoring agency, and shall be installed in accordance with Article 14.
- (c) Automatic Fire Extinguishing Systems. When required by Table No. 81.105-A, approved automatic fire extinguishing system shall be provided. The design and installation of automatic fire extinguishing systems shall be in accordance with Article 10, Article 14, UFC Standard No. 81-1 or No. 81-2, and with the Building Code. The design and installation of automatic fire extinguishing systems for the storage of level 2 and level 3 aerosol products shall also be in accordance with Article 88.

The fire-extinguishing system shall be designed by a registered engineer or an approved designer. When approving a system design, the Chief may consider the standards and recommendations of the NFPA, Factory Mutual or other nationally recognized fire protection authorities.

Sec. 15.301 Amendment of Section 81.107(c)5, Uniform Fire Code.

Section 81.107(c)5 is amended by modifying (c)5.C. and adding (c)5.E. to read as follows:

- (c)5.C. Controls. The smoke removal system shall be provided with a fire department

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control panel located in accordance with this article and Article 14.

The control panel room shall be of one hour construction in accordance with the Building Code. Accessory corridors providing access to the control panel room from the exterior shall be of one hour construction in accordance with the Building Code.

Automatic sprinkler protection shall be provided in the control panel room. Automatic sprinkler protection shall be provided in accessory corridors providing access to the control panel room from the exterior. Automatic sprinkler coverage shall be in accordance with 81.106.

- (c)5.E. A graphic diagram shall be provided for the control panel room indicating curtained areas and their respective controls.

Sec. 15.302 Amendment of Section 81.108(b), Uniform Fire Code.

Section 81.108(b) is amended to read as follows:

Public accessible areas. Aisles in public accessible areas shall comply with subsection (a) and the following:

1. When mechanical stocking methods are used, the minimum aisle width shall be 8 feet.
2. During stocking operations, a minimum aisle width of 44 inches shall be maintained.
3. Aisles shall not have dead ends greater than 20 feet in length.

Sec. 15.303 Addition to Article 81, Uniform Fire Code.

Article 81 is amended by adding Section 81.112 as follows:

81.112 Flue spaces. Flue spaces required by UFC Standards Nos. 81-1 and 81-2 shall be maintained free of storage.

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Sec. 15.304 Amendment of Section 82.106, Uniform Fire Code.

Section 82.106(b) is amended by adding subdivisions 6, 7, and 8 as follows:

6. The dispensing system is not within 25 feet of where flammable or combustible liquids are stored or dispensed.
7. The system is equipped with a dispensing nozzle fitting only automotive type fuel tanks, an approved break-away dispensing hose, a pressure differential valve installed at the meter that is capable of shutting off the flow if pressure is lost downstream, excess flow valves as required by the Chief, and an approved automatic shutdown device that operates if no dispensing takes place within 60 seconds after the system is activated.
8. No person under 18 years of age shall be authorized to operate the system.

Section 82.106 is amended by adding subsection (e) as follows:

Tank Vehicle. The operator or other competent person shall be in attendance at all times while a tank vehicle or tank car is discharging cargo. The tank vehicle or tank car shall be positioned so that the operating controls and the discharging end of the hose or hoses are both in view of the operator or other competent person.

Sec. 15.305 Amendment of Section 82.113(b), Uniform Fire Code.

Section 82.113(b) is amended by adding a sentence at the end of the subsection to read as follows:

Tanks shall be considered permanently out of service 30 days after their last use.

Sec. 15.306 Amendment of Section 87.103, Uniform Fire Code.

Section 87.103(e) is amended by modifying the last sentence in the subsection to read as follows:

Combustible debris, waste material and trash shall not be burned on site.

Section 87.103 is amended by adding subsection (r) as follows:

- r. **Onsite Storage of Combustible Construction Materials.**
 1. Lumber piles, shorts, scraps, wood, stickpiles and combustible construction materials shall be stored in a neat and orderly manner free from any condition that would cause

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or contribute to the rapid spread of fire.

2. Bulk storage of lumber and combustible construction materials shall be in accordance with Article 30.
3. Provisions shall be made for the proper disposal of waste material and rubbish.

Sec. 15.307 Amendment of Appendix I-A, Uniform Fire Code.

Section 2(d)2 of Appendix I-A is amended by changing the word "rooms" to "roofs" in the third line of the sixth paragraph.

Appendix I-A is amended by adding Section 8 as follows:

8. Where a basement stairway and a stairway to an upper story terminate in the same exit enclosure, an approved barrier shall be provided to prevent persons from continuing into the basement.

Sec. 15.308 Amendment of Appendix I-C, Uniform Fire Code.

Section 2 of Appendix I-C is amended by adding a sentence at the end of the section to read as follows:

Buildings, two or more stories in height shall comply with this appendix as deemed necessary by the Chief.

Section 3 of Appendix I-C is amended by adding subsection (g) as follows:

The sign background shall be color coded as required by the fire department.

Sec. 15.309 Amendment of Appendix II-C, Uniform Fire Code.

Section 3 of Appendix II-C is amended by adding a sentence at the end of the section as follows:

A permit is required to operate a marina. See Section 4.108.

Section 6(c) of Appendix II-C is amended by adding subdivisions 1 and 2 as follows:

1. Marinas shall be accessible for firefighting purposes by not less than two approved access points.

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2. Access locations shall be in accordance with Uniform Building Code, Chapter 33, Section 3303(c).

Section 6 of Appendix II-C is amended by adding subsection (e) as follows:

A fire sprinkler system shall be provided for all covered floats, marinas, piers, and any/all other covered floating structures regardless of square footage.

Appendix II-C of the Uniform Fire Code is amended by adding Section 9 as follows:

Exiting for marinas and areas serving marinas shall be of an arrangement and dimension to accommodate the total occupant load of all occupancies located at or on marinas or wharves. Exiting shall be provided in accordance with UBC, Chapter 33.

Sec. 15.310 Amendment of Appendix II-F, Uniform Fire Code.

Section 1 of Appendix II-F is amended to read as follows:

The storage and dispensing of motor fuels into the fuel tanks of motor vehicles from above ground tanks shall be for noncommercial non-retail use and shall be in accordance with the policies and procedures of the Sacramento Fire Department.

The remainder of Appendix II-F is deleted.

Sec. 15.311 Amendment of Appendix III-C, Uniform Fire Code.

Section 1(a) of Appendix III-C is amended by adding a sentence at the of the subsection as follows:

Testing shall be in accordance with this appendix, Chapter 5 of Title 19, UFC 14-1 and NFPA 13.

Section 2(d) of Appendix III-C is amended by modifying the second sentence of the subsection to read as follows:

When fully opened, the response shall occur within 90 seconds.

Section 3(b)4 of Appendix III-C is amended by modifying the last sentence of the paragraph to read as follows:

Each outlet in the system shall be flowed in a manner that will indicate the valves are fully

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operable and that there is the required water pressure at that outlet.

Sec. 15.312 Addition of Appendix III-C-A, Uniform Fire Code.

Appendix III-C-A is added as follows:

Fire Pump Rooms.

1. **General.** When fire pumps are required, fire pump rooms and equipment protection shall be in accordance with this section and NFPA 20. The size and location of fire pump rooms shall be approved by the Chief. Plans shall be submitted in accordance with Sec. 10.503 and shall indicate all dimensions, working clearances and locations of pumps, controls and fuel tanks. Co-location of non-fire related equipment is prohibited in fire pump rooms. Water flow direction shall be indicated on the piping.
2. **Construction Requirements.** Fire pump rooms shall be of 2 hour fire resistive construction. Pump rooms shall be identified with an approved sign permanently affixed to the entry door. Pump room drains shall be sized to accommodate pump operation and other combined outflow of released water regardless of source. Pump rooms which are located below grade shall be provided with adequate sump capability.

Standby power, if required, shall supply power to the sump pump. Seismic protection in pump rooms for piping, equipment and tanks shall be in accordance with the earthquake regulations of UBC Chapter 23, Section 2312.
3. **Fire Protection.** Fire pump rooms shall be provided with automatic sprinkler protection. Fire pump rooms which are isolated from the protected property or are located in separate structures or in adjacent unprotected structures, shall be protected with automatic sprinklers. A fire extinguisher of a 20BC minimum rating shall be provided within 50 feet of the pump room entry.
4. **Annunciation.** Pump room annunciation shall be in accordance with this section and NFPA 20, Sec. 7-4.7. The pump room annunciation shall be integrated within the main fire alarm panel and shall show alarm and any trouble condition existing for electric drive: pump running, phase reversal, power off, sump level, tamper, and for diesel drive: pump running, switch/power off, battery failure, overspeed, start failure, high temperature tamper and low fuel status, and any other condition as required by the Chief.
5. **Electric Fire Pumps and Controllers.** Power supply for electric fire pumps/controllers shall be supplied ahead of the building main. Wiring shall be routed above pump level, and elevated above a flood. Current carrying parts shall be twelve inches above finished

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floor. Power supply shall be in conformance with NFPA 20, Chapter 6 and the California Electric Code. Controllers shall be supplied with standby power and shall have automatic switching to standby power.

6. **Method of Stopping.** The stopping method for diesel or electric fire pumps shall be manual. Automatic shutdown is prohibited unless both diesel and electric pumps are provided.
7. **Fuel Supply.** Fuel supply use, storage and piping and over-fill protection shall be in accordance with Article 79. Fuel shall be provided for 8 hours running time at full power. Low fuel annunciation shall be at 1/2 full tank based on manufacturer's consumption curves. For protection of piping entering buildings, see Article 79. The product name and fuel flow direction shall be indicated on piping.
8. **Personnel Safety.** Overhead piping in fire pump rooms shall accommodate a vertical clearance of seven feet. Hearing protection shall be available in the pump room. Personnel shall be protected from heated surfaces and areas of high voltage. Plans for pump and controller operation and wiring shall be kept in the pump room.

DATE PASSED FOR PUBLICATION:

DATE ENACTED:

DATE EFFECTIVE:

ATTEST:

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