

BILL NO. 83-32

Ordinance No. 3058

AN ORDINANCE TO AMEND TITLE 16 OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY REPEALING CHAPTER 16 THEREOF AND ADDING THERETO A NEW CHAPTER 16, ADOPTING BY REFERENCE THE UNIFORM FIRE CODE AND UNIFORM FIRE CODE STANDARDS, 1982 EDITION, AS PART I THEREOF, AND A SUPPLEMENTAL DOCUMENT AMENDING, MODIFYING AND DELETING FROM SAID UNIFORM FIRE CODE, AS PART II THEREOF; PRESCRIBING REGULATIONS TO GOVERN CONDITIONS RELATING TO FIRE AND EXPLOSION WHICH ARE HAZARDOUS TO LIFE AND PROPERTY; PROVIDING FOR THE ESTABLISHMENT OF A BUREAU OF FIRE PREVENTION AND DEFINING THE POWERS AND DUTIES THEREOF; PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

Sponsored by:	Summary: Adopts the Uniform Fire Code and Uniform Fire Code Standards,
Councilman Ron Lurie	1982 Edition, with amendments thereto. Provides regulations which govern hazardous conditions relating to fire and explosions, establishes the Fire Prevention Bureau and provides for the powers and duties thereof.

THE CITY COUNCIL OF THE CITY OF LAS VEGAS, NEVADA, DOES
HEREBY ORDAIN AS FOLLOWS:

SECTION 1: Title 16, Chapter 16, of the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, is hereby repealed.

SECTION 2: Title 16 of the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, is hereby amended by adding thereto a new chapter, designated as Chapter 16 and entitled "Uniform Fire Code," to consist of the provisions set forth in Sections 3 and 4 of this ordinance.

SECTION 3: Those certain documents, three copies of which are on file in the office of the City Clerk of the City of Las Vegas, Nevada, and marked and designated as follows, are hereby adopted by reference as the Fire Code of the City of Las Vegas, Nevada, and made a part of Chapter 16 as if they were fully set forth herein:

(A) As part I of said Chapter, the Uniform
Fire Code and Uniform Fire Code Standards,

1 1982 Edition, as prepared by the Inter-
2 national Conference of Building Officials,
3 and the Western Fire Chiefs Association,
4 save and except such provisions thereof
5 as are herein supplemented, amended, mod-
6 ified or deleted; and

7 (B) As Part II of said Chapter, a supplemental
8 document, supplementing, amending, modify-
9 ing and deleting from the Uniform Fire
10 Code, 1982 Edition.

11 SECTION 4: The Fire Code of the City of Las Vegas shall
12 be enforced by the Fire Prevention Bureau in the Department of
13 Fire Services of said City, which is hereby established and which
14 shall be operated under the supervision of the Chief of the Depart-
15 ment of Fire Services.

16 SECTION 5: If any section, subsection, subdivision,
17 paragraph, sentence, clause or phrase in this Chapter or any part
18 thereof, is for any reason held to be unconstitutional or invalid
19 or ineffective by any court of competent jurisdiction, such
20 decision shall not affect the validity or effectiveness of the
21 remaining portions of this Chapter or any part thereof. The City
22 Council of the City of Las Vegas, Nevada, hereby declares that it
23 would have passed each section, subsection, subdivision, paragraph,
24 sentence, clause or phrase thereof, irrespective of the fact that
25 any one or more sections, subsections, subdivisions, paragraphs,
26 sentences, clauses or phrases be declared unconstitutional, invalid
27 or ineffective.

28 SECTION 6: Whenever in this ordinance any act is pro-
29 hibited or is made or declared to be unlawful or an offense or a
30 misdemeanor, or whenever in this ordinance the doing of any act is
31 required or the failure to do any act is made or declared to be
32 unlawful or an offense or a misdemeanor, the doing of any such

1 prohibited act or the failure to do any such required act shall
2 constitute a misdemeanor and upon conviction thereof, shall be
3 punished by a fine of not more than \$1,000.00 or by imprisonment
4 for a term of not more than six months, or by any combination of
5 such fine and imprisonment. Any day of any violation of this
6 ordinance shall constitute a separate offense.

7 SECTION 7: All ordinances or parts of ordinances,
8 sections, subsections, phrases, sentences, clauses or paragraphs
9 contained in the Municipal Code of the City of Las Vegas, Nevada,
10 1983 Edition, in conflict herewith are hereby repealed.

11 PASSED, ADOPTED and APPROVED this 3rd day of
12 August, 1983.

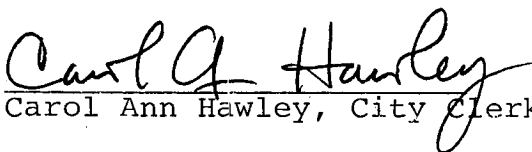
13 APPROVED:

14
15 By


16 WILLIAM H. BRIARE, MAYOR

17 RON LURIE, MAYOR PRO-TEM

18 ATTEST:

19 
20 Carol Ann Hawley, City Clerk
21
22
23
24
25
26
27
28
29
30
31
32

1 The above and foregoing ordinance was first proposed
2 and read by title to the City Council on the 6th day of
3 July, 1983, and referred to the following committee
4 composed of Councilmen Lurie and
5 Christensen for recommendation; thereafter the
6 said committee reported favorably on said ordinance on the 3rd
7 day of August, 1983, which was a regular meeting of
8 said City Council; that at said regular meeting, the
9 proposed ordinance was read by title to the City Council as
10 first introduced and adopted by the following vote:

11 VOTING "AYE" Councilmen: Christensen, Levy, Lurie, Nolen and Mayor Briare

12 VOTING "NAY" Councilmen: None

13 ABSENT: None

14 APPROVED:

15
16 By 

17 WILLIAM H. BRIARE, MAYOR

18 RON LURIE, MAYOR PRO-TEM

19 ATTEST:

20 
21 Carol Ann Hawley, City Clerk

A SUPPLEMENTAL DOCUMENT ADOPTED BY REFERENCE, COMPLETING THE FIRE CODE OF THE CITY OF LAS VEGAS, NEVADA, CONTAINED IN TITLE 16, CHAPTER 16, OF THE MUNICIPAL CODE OF SAID CITY, BY SUPPLEMENTING, AMENDING, MODIFYING AND DELETING FROM CERTAIN SECTIONS OF THE UNIFORM FIRE CODE, 1982 EDITION.

SECTION 1: The following sections of the Uniform Fire Code, 1982 Edition, are hereby supplemented, amended, modified and deleted as hereinafter provided in Sections 2 through 31, inclusive, of this document.

SECTION 2: Section 1.102(c) is hereby amended by adding a new sentence to read: Appendices Division I, I-B; Division II, II-D; Division III, III-A; III-C; Division V, V-A; and Division VI, VI-C, are specifically adopted by this ordinance.

SECTION 3: Section 2.203 is hereby amended by adding Subsection (c) to read:

(c) The charge for the reproduction of reports will be three dollars (\$3.00) minimum for the first three pages and fifty cents (\$.50) for each additional page.

SECTION 4: Section 2.302, Board of Appeals, is hereby deleted.

SECTION 5: Section 4.101, Subsection 10, is hereby deleted and replaced with a new Subsection 10 as follows:

(10) Compressed Gases, Flammable. To install, store, handle or use at normal temperature and pressure more than 2,000 cubic feet of flammable compressed gas or 6,000 cubic feet of non-flammable compressed gas. Plans for compressed gas systems shall be submitted to the Department of Building and Safety before a permit is issued. Plans shall include type

of pipe, all valve locations and any additional details as required by the Fire Chief. See also Section 24 herein.

Section 4.101 is hereby amended by adding thereto three new subsections, subsections 47, 48 and 49, respectively, as follows:

- (47) Fire Alarm Systems. For permit to install fire alarm systems see Section 10.307.
- (48) Fire Protection of Appliances. For permit to install or modify automatic fire extinguishing equipment for protection of hood and duct ventilation systems and related cooking appliances, see Section 10.315(g)(1).
- (49) Roofing Tanker Vehicles and/or Roofing Kettles. For permit to perform roofing operations, see Section 11.403.

SECTION 6: Section 10.207 is hereby amended by adding a new subsection (g) to read as follows:

- (g) Fire Lanes for Planned Unit Developments (Row Housing). All planned unit developments shall be approved by the Las Vegas Department of Fire Services for fire equipment ingress/egress prior to construction.

SECTION 7: Section 10.208 is hereby amended by designating the existing paragraph as Subsection (a) and adding Subsection (b) to read as follows:

- (b) Large apartment complexes, condominiums, retired residence complexes and large mobile home parks that do not follow standard city street numbering patterns or guidelines shall display a permanent directory in a conspicuous location, such as the

main entrance or just outside the main office.

Complexes with more than one building, separate and distinct and/or attached by covered walkways, or mobile home parks with more than one roadway used by motor driven vehicles shall provide the directory as described below.

- (1) This directory shall be of sufficient size that letters, numbers, streets, etc., are easily read.
- (2) The directory shall have lighting so as to be visible and readable at night.
- (3) This directory shall give locations of different buildings and their apartment or space number.
- (4) This directory shall be so designed as to show these buildings, apartments, or mobile home spaces in relation to the streets, driveways, or walkways servicing each.
- (5) The owners and/or operators of these complexes or mobile home parks shall be required to supply enough printed 8-1/2 by 11 inch copies of the directory for every emergency unit responding to the complex or mobile home park either first or second alarm, from either the Fire Department or Fire Departments involved in the response.
- (6) The owners and/or operators of these complexes or mobile home parks shall be required to correct the directory and supply corrected printed directories to the Fire Department involved whenever additions, alterations or corrections are made to the complexes or mobile home parks.
- (7) The printed directories shall show the locations of hydrants on roadways, walkways, or

parking lots which are located within
the complexes or mobile home parks.

SECTION 8: Article 10 is hereby amended by adding a new

Section 10.210 to read as follows:

Sec. 10.210

- (a) Fire drills shall be held at least once a month in Educational Occupancies where such occupancies constitute the major occupancy of a building and at least once each month on each shift in institutional occupancies. During severe weather fire drills may be postponed. A record of all fire drills shall be kept and the person in charge of such occupancies shall file written reports at least quarterly with the Bureau of Fire Prevention giving the time and date of each drill held. Such records shall be attested to by a signature of the person or persons conducting said fire drills.
- (b) In Educational Occupancies fire drills shall include complete evacuation of all persons from the building. In Institutional Occupancies fire drills shall be conducted to familiarize operating personnel with their assigned positions of emergency duty. Complete evacuation of occupants from the building in Institutional Occupancies at the time of the fire drill shall be required only where it is practical and does not involve moving non-ambulatory patients or disturbing persons under medical care.
- (c) In R type Occupancies the Fire Department may require fire drills at the discretion of the Chief.

SECTION 9: Section 10.301 is hereby amended by adding the following to the end of Subsection (a):

Minimum rated class two-A (2A) fire extinguishers shall be installed and maintained by apartment building owner/managers within the City of Las Vegas.

Apartment buildings are "apartment houses" as defined in the 1982 Uniform Fire Code, Section 9.103. In accordance with the 1982 Uniform Fire Code Standard No. 10-1, portable fire extinguishers shall be located as stipulated in Chapter 3 of said Standard.

Extinguishers shall be serviced in accordance with the current Nevada State Fire Marshal Regulations.

In lieu of requirements in the 1982 Uniform Fire Code Standard No. 10-1, a one-A (1A) rated portable fire extinguishers, properly mounted, will be acceptable in each individual apartment rental unit, providing the owner/manager maintains records of service dates of these extinguishers.

SECTION 10: Section 10.301 is hereby amended by adding subsections (f) - (u) to read as follows:

(f) All fire hydrants shall be installed 18" into the sidewalks, measured from the rear of the walk. See Uniform Standard Drawing, Public Works Construction Clark County area, Drawing #56.09.

All fire mains shall conform to the Las Vegas Valley Water District requirements in accordance with N.F.P.A. recommendations.

Fire hydrants in commercial areas, depending on the size, spacing and construction of the buildings, shall be spaced so that all construction and combustible open storage is within three hundred (300) to five hundred (500) feet of an approved fire hydrant.

Fire hydrants in residential planned unit developments (row housing), and planned unit condominium apartment complexes shall be spaced not more than 300-500 feet, depending on the size, spacing and construction of the building.

Because of large open spaces in planned unit developments, spacing may be erratic. Islands on major streets may require adjustments to spacing or additional fire hydrants.

Fire hydrants in single family detached dwelling areas shall be spaced not more than six hundred (600) feet apart.

- (g) Four sets of "water plans" are to be submitted to the Fire Prevention Bureau for approval prior to the installation of fire hydrants and/or water mains. Of the four sets of plans, one set (the original) will be returned when it is signed and approved. A 3-1/2" wide by 2" high (minimum) space on the bottom right hand corner of the plans is to be provided for the Fire Department approval stamp. A "vicinity map" and the Fire Department General Notes must also be on the plans. The plans are to show the exact location, size and type of new and existing water mains, the exact location of existing and new hydrants, hydrant control street valves, water main connections, control valves, stubs, etc.. In addition, the plans are to show curb

lines and sidewalks, streets, alleys and driveways, walls and fences, property lines, vehicle parking layouts, buildings, and anything else pertinent to hydrant locations.

- (h) The installer is required to contact the Fire Department (preferably 24 hours in advance) for two inspections during installation. The initial inspection consists of inspecting the gravel bed, concrete thrust block, hydrant weep holes, hydrant control street valve location, hydrant location, obstruction to the hydrant, and the hydrant itself.
- (i) The final inspection consists of flushing the hydrant; determining the static, residual and flow pressure of the hydrant; and checking the location, clearances, condition and protection (where required) of the hydrant, the painting of the hydrant (yellow), curb (red), striping of asphalt (yellow-where required) and anything else pertinent to hydrant location and installation. A 2" to 6" clearance shall be required between the concrete pad and the bottom flange of hydrant.
- (j) All on-site water mains for fire protection systems and fire hydrants shall be tested in accordance with National Fire Protection Association Standard 24, titled "Outside Protection", which states:

Testing Underground Systems

- (1) Before asking final approval of an installation by the authority having jurisdiction, the installing company shall furnish a written statement, counter signed by the property owner or representative, to the effect that the work has been completed in accordance with approved specifications and plans.

The Contractor's Materials and Test Certificate, shown in Chapter 13, Standard for the Installation of Sprinkler Systems, is to be used to the extent it applies.

- (2) The trench shall be backfilled between joints before testing to prevent movement of pipe.
- (3) Hydrostatic Test Requirements.
- (4) All new yard piping shall be tested hydrostatically at not less than 150 pounds per square inch (10.3 bars) pressure for two hours, or at 50 pounds per square inch (3.4 bars) in excess of the maximum static pressure when the maximum static pressure is in excess of 150 pounds per square inch (10.3 bars). Recommended test procedure is as follows: The water pressure is to be increased to 50 psi (3.4 bars) increments until the test pressure described in #4 is attained. After each increase in pressure, observations are to be made of the stability of the joints. These observations are to include such items as protrusion or extrusion of the gasket, leakage or other factors likely to effect the continued use of a pipe in service. During the test, the pressure is not to be increased by the next increment until the joints have become stable. This applies to movement of the gasket. After the pressure has been increased to the required maximum value and held for one hour, the pressure is to be decreased to 0 psi while

observations are made for leakage. The pressure is again to be slowly increased to the valve specified in #4 and held for one more hour while observations are made for leakage and the leakage measurement is made.

- (5) The amount of leakage in piping shall be measured at the specified test pressure by pumping from a calibrated container. For new piping, the amount of leakage at the joints shall not exceed two quarts per hour (1.89 l/h) per 100 gaskets or joints irrespective of pipe diameter.
- (6) The amount of allowable leakage specified in #5 may be increased by one fluid ounce per inch valve diameter per hour (30ml/25ml/h) for each metal seated valve isolating the test section. If dry barrel hydrants are tested with the main valve open, so the hydrants are under pressure, an additional five ounces per minute (15ml/min) leakage is permitted for each hydrant.
- (7) Test shall be made by the contractor in the presence of the authority having jurisdiction or the representative of the owner. The statement referred to in (j) #1 above is to be completed.
- (8) Operating Test
 - (i) Each hydrant shall be fully opened and closed under system water pressure and dry barrel hydrants checked for proper draining. Where fire pumps are available, this shall be done with the pumps running.
 - (ii) All control valves shall be fully closed and opened under system water pressure to ensure proper operation.

(k) Fire Hydrants Shall Conform to American Water Works Standard, C 502-80, for Fire Hydrants, 1980 Edition, and All Fire Hydrants Shall Conform to the Following Specifications:

- (1) Hydrants shall be designed, manufactured, and tested in compliance with the 1980 Edition of A.W.W.A. C-502-80, "Standard for Dry - Barrel Fire Hydrants," as published by the American Waterworks Association.
- (2) Hydrants shall be "Traffic" type with a replaceable "breakable" flange immediately above the ground line for minimizing damage. All hydrants shall be guaranteed to break away at the break-away flange without damage to the hydrant barrel or the hydrant itself, and the valve stem will not be bent. Pre-weakened, scored or breakable bolts at the break-away flange are not acceptable.
- (3) Hydrants shall be of the compression type, constructed so that the main valve closes with the water pressure to assure no loss of water in the event of damage to the upper portion of the fire hydrant.
- (4) Main valve opening shall have a minimum diameter of 5-1/4" to assure optimum flow.
- (5) Hydrants shall be of the dry top design with two O-ring seals to ensure that the operating threads will be protected from water entry. Drop top design must include a factory lubricated operating mechanism which allows supplemental lubricant to be added in the field

without removal of the top section.

Standard lubricant shall be either oil or grease, suitable for a temperature range of -40 degrees F to +150 degrees F.

- (6) All hydrants shall have a weather shield at the operating nut to protect the clearance area between the top casting and the operating nut.
- (7) The operating nut shall be a one-piece bronze casting. Both the operating nut and nozzle cap nuts shall be Pentagon in shape and measure 1-1/8 inches from point to flat. Caps shall be provided with rubber gaskets.
- (8) Hydrants shall have two 2-1/2 inch National Standard nozzles and one 4 inch National Standard pumper nozzle with Higbee type threads.
- (9) Hydrant nozzle section shall be capable of rotation through 360 degrees with respect to the standpipe.
- (10) Minimum distance allowable between the centering of the lowest nozzle and ground line is 16 inches.
- (11) Hydrant shall have identification mark indicating direction of opening left.
- (12) Hydrants shall have permanent markings identifying the manufacturer name, size of main valve opening and year of the manufacture.
- (13) Hydrants shall have an automatic drain that is operated by the main valve rod. Drain valve is to open as the main valve is closed and close as the main valve is opened. Port and seat of drain valve shall be bronze.

- (14) The outside of the hydrant top section shall be painted a minimum of one coat of primer and one finished coat of enamel Medium Yellow in color.
- (15) The shoe of the hydrant shall be provided with a ring type of inlet, six (6) inches in size. The internal surface of the shoe shall be coated with a factory applied two part thermosetting epoxy coating with a minimum thickness of 4 mils.
- (16) The bronze valve seat shall be threaded into a bronze drain ring or shoe bushing to prevent electrolysis between these components.
- (17) The facing of the main valve against seats shall be rubber or neoprene.
- (18) Hydrants shall be designed to permit the use of extension sections and allow all parts to be removed from ground level without requiring excavation of the hydrant.
- (19) Installation shall be in accordance with Standards as described in the 1982 Uniform Fire Code as adopted by the City of Las Vegas. Testing shall be in accordance with A.W.W.A. Standard C-600.
- (1) On any new home or building construction, accessible fire hydrants shall be installed before actual construction commences and said fire hydrants shall be in good working order with an adequate water supply.
- (m) Painting of curbs and asphalt parking areas shall be completed by the installer prior to the final inspection and shall be as follows:

- (1) Curbs - A suitable coat of red paint (Zone-Lac Glass Curb Enamel #716A9 Red or equivalent) shall be applied to curbs in front of hydrants as follows:
Parallel Parking: 30' (15' on each side of the hydrant).
Head on Parking: 40' (20' on each side of the hydrant).
Angle (Diagonal) Parking: 40' (25' on the acute angle side and 15' on the obtuse angle side of the hydrant).
- (2) Asphalt Parking Areas - A suitable coat of "street marking" yellow paint shall be applied to the asphalt in a striping effect, according to City Traffic Engineering specifications.
- (n) Concrete pad for hydrants: The pad shall be 3' x 3' x 10" thick with #3° rebar all around (see Uniform Standard Drawings, Clark County Area, Drawing #D.50 of these specifications).
- (o) Fire hydrants shall not be located within 6' of a driveway, power pole, light standard, or other obstruction. For wall, fence, and planter locations relative to hydrants, see items 1 through 4 below.
 - (1) For an obstruction that is no higher than the bottom of the lowest outlet with cap on, 24" clearance from the center of the hydrant to each side is required. The front shall not be obstructed.
 - (2) From an obstruction that is no higher than the hydrant, but is above the bottom of the lowest outlet with cap on, 24" clearance is

required on each side. The front shall not be obstructed.

(3) For an obstruction higher than the hydrant, a 60" clearance is required from the center of the hydrant to each side. The front shall not be obstructed.

(4) Bushes, plants, trees, etc., shall not obstruct maintenance or operation of the hydrant.

(p) When property with existing fire hydrant protection is developed, the existing fire hydrants shall be brought up to meet or exceed the requirements of the City Fire Department Hydrant Specifications and Hydrant Installation Specifications.

(q) Hydrant control valves are to be located as close as practical to the main.

(r) Sectional water main control valves are to be located per Fire Department requirements. Basically, a sectional control valve must be installed after every two hydrants on a water system so that no more than two hydrants would be out of service due to a break in a water main. Single hydrants are not required to be isolated on a water main as all hydrants have shut-off valves on their laterals.

(s) General Notes, City Fire Department: The following "General Notes" are required to be on water plans submitted to the City Fire Department for approval.

(1) All work shall be done in strict accordance with City of Las Vegas Standard Specifications.

(2) All work shall be done in strict accordance with the City of Las Vegas Fire Department "Hydrant Specifications" and "Hydrant

Installation Specifications".

- (3) On any new home or building construction, accessible fire hydrants shall be installed before actual construction commences and said fire hydrants shall be in good working order with an adequate water supply.
- (4) Painting of the curbs and/or striping of asphalt for protection from physical injury per City Fire Department "Hydrant Installation Specifications" shall be completed before approval of the hydrants by the City of Las Vegas Fire Department can be obtained.
- (t) All fire main and hydrant locations shall be approved by the Las Vegas Fire Department prior to installation.

NOTE: Two (2) copies of approved as-built plans shall be submitted to the Las Vegas Fire Department for I.S.O.

Insurance Classification records.

- (u) The Fire Department shall determine the required fire flow for fire protection based on the current I.S.O. grading recommendations.

SECTION 11: Section 10.302 is hereby amended by adding Subsection (c) to read as follows:

- (c) Upon completion of the installation of any underground water system supplying on-site fire protective devices or systems such as fire hydrants and sprinkler systems, a complete as-built drawing of said system, starting at the water vault, and including each and every portion of said system, shall be submitted to the Fire Prevention Bureau for future reference. This drawing shall include all underground pipe size and lengths, the exact locations of any and

all underground valves and any other pertinent information that could prove useful at a later date. It shall be the responsibility of the Hydrant Division to obtain and verify these drawings as part of the approval procedure of all new systems or the modification of existing systems.

SECTION 12: Section 10.307 is hereby amended by adding Subsections (e) - (i) as follows:

- (e) Permits Required. Before any fire related signaling system is installed, the company making the installation, including the approved Central Station Signaling Office, shall apply to the Building and Safety Department for all applicable permits.

The applicant shall submit the following information:

- (1) The type of system to be installed as designated in the applicable N.F.P.A. Standard (71, 72a, 72b, 72c or 72d).
- (f) General Requirements.
 - (1) All audible signal appliances shall produce not less than fifteen (15) decibels above ambient sound levels throughout the protected area.
 - (2) Group B, Division 2 Occupancies having retail sales areas in excess of 40,000 square feet, ground floor, shall be provided with a Class II, Type A, B, C, or D fire alarm system.
 - (3) Group B, Division 2 Occupancies, three (3) or more stories but less than 55 feet in height, shall be provided with Class III, Type A, B, C, or D fire alarm system.

- (4) Group I, Division 1 and 2 Occupancies and mental hospitals shall be provided with an approved automatic smoke-detection and manually activated Class III alarm system of Type A, B, C or D.
- (5) Group R, Division 1 and Group B, Division 2 Occupancies 55 feet or more in height shall be provided with at least three separate zones per floor as follows:
 - (a) Pull Stations
 - (b) Smoke Detectors
 - (c) Water Flow Devices
- (g) Supervision: All required fire alarm systems, including those existing, shall be supervised by location as determined by the Chief. Supervision shall be by an approved central proprietary or remote station service or a local alarm which will give an audible signal at a constantly attended location.
- (h) Inspection Contracts for Required Fire Alarm Systems: The test agreement between the building owner and service company shall cover all alarm equipment, i.e., control panel, annunciator panel and peripheral devices including such wiring as may be necessary for the system to function properly. The service representative shall make as many visits as necessary to insure that all equipment is functioning as designed.
- (i) Minimum Service Requirements: All required fire alarm systems shall be tested and inspected annually by a service company or alarm contractor certified by the manufacturer

(of the equipment being installed).

EXCEPTION: The following occupancies shall be tested and inspected semi-annually:

Group I, Division 1, 2, and 3 Occupancies.

Group R, Division 1 Occupancies, 55 feet or more in height.

Group B, Division 2 Occupancies, 55 feet or more in height.

- (1) For all tests, the service company shall:
 - (a) Physically ascertain that all audible signaling appliances are functioning properly during the annual contract period.
 - (b) Inspect and operate all outlying initiating and indicating devices during the annual contract period.
 - (c) Test and adjust all control equipment.
 - (d) Check alarm systems on the standby power source during the annual contract period.
 - (e) Check the system to ascertain whether it will function properly under abnormal line conditions, such as open line and grounded line tests.
- (2) The service company shall make itself available for emergency call 24 hours a day, 7 days a week. Said service company shall submit evidence of the capability to provide for repair and restoration of fire alarm system within 24 hours of notification of a fire or fault in the system.
- (3) All inspection reports shall be forwarded to the Fire Prevention Bureau within thirty (30) days after the inspection, unless

major deficiencies exist, in which case reports shall be forwarded immediately.

- (4) Prior to and after service or testing of any equipment, the Fire Department alarm office shall be notified of the location of the test and the approximate time the equipment will be inoperable.
- (5) A Fire Department representative will accompany the service company on one of its visits during the contract period. The Fire Department shall be notified 24 hours prior to testing by the service company.
- (6) In the event the contract is cancelled or not renewed, the Fire Department shall be notified by the service company.

SECTION 13: Section 10.309 is hereby amended by adding

Subsection (h) as follows:

- (h) General Requirements. The sprinkler inspection contract shall include testing by a licensed sprinkler contractor of all water flow actuated devices, gate valve supervising switches, tank water level devices and other sprinkler system supervisory devices annually. Fire pumps, whether new or existing, shall be tested by a qualified service company at least once a year. All tests shall be completed in accordance with applicable standards.

SECTION 14: Section 10.310 is hereby deleted and a new Section 10.310 is added to read as follows:

Section 10.310. All required automatic sprinkler systems, including those existing required systems, shall be supervised as determined by the Chief.

Supervision shall be by an approved central, proprietary or remote station service or local alarm which will give an audible signal at a constantly attended location.

SECTION 15: Section 10.315(d) is hereby amended to read as follows:

- (d) Portable Extinguishers. In addition to the fixed system, a dry chemical portable extinguisher which has a rating of not less than [40-B] 20-B shall be installed near the food processing equipment. For additional portable extinguishers, see U.F.C. Standard No. 10-1.

SECTION 16: Section 10.315 is hereby amended by adding a new Subsection (g) as follows:

- (g) General Requirements: Fire extinguishing equipment shall be installed and maintained in accordance with N.F.P.A. Pamphlet #17, #96 and manufacturer's specifications. Installers shall be licensed under the provisions of the Nevada State Fire Marshal Regulations.

- (1) Installation and alterations of systems required in Section 10.215(a) shall be accomplished only after a permit is obtained from the Department of Building and Safety. When the installation or modification is completed, the installer shall call the Fire Prevention Bureau for a final test inspection. "As-built" diagram(s) of the installed or modified system, drawn to scale in an acceptable professional manner, showing all components as specified in the

manufacturer's specifications, shall be submitted to the Fire Prevention Bureau at the final test inspection. The above "as-built" diagram(s) will further state that the installation or modification complies with National Fire Protection Association Pamphlet #17, #96, manufacturer's specifications and this ordinance. The Nevada State Fire Marshal's Certificate or Registration assigned number and signature of installer shall also be affixed to the "as-built" diagram.

If the installation or modification does not meet the above specifications, a "stop-order" shall be immediately issued to discontinue future use of the affected cooking until the installation or modification meets all required specifications.

SECTION 17: Section 11.101 is hereby amended by adding a new Subsection (e) as follows:

- (e) In order for a person to receive a permit under this section, he must first have obtained a permit from the Air Pollution Control Board.

Section 11.204 is hereby amended by designating the existing paragraph as Subsection (a) and by adding Subsections (b)-(d) to read as follows:

- (b) All drapes, hangings, curtains, drops and all other decorative material that would tend to increase the fire and panic hazard shall be made from material which is not flammable or shall be treated and maintained in a flame-retardant

condition by means of flame-retardant solution or a process approved by the Chief.

- (c) When carpeting is used as interior wall or ceiling finish, carpeting and similar materials having a napped, tufted, looped or similar surface shall have a Class I flame spread classification.
- (d) The Fire Department shall be provided with a certificate of flame-retardant application, with a fabric sample attached for all of the above mentioned materials.

SECTION 18: Section 11.403 is hereby amended by adding Subsections (c) and (d) as follows:

(c) General Provisions

- (1) Roofing kettles shall not be placed within fifteen (15) feet of any opening in any occupied building except on a public street.
- (2) Roofing kettles shall not be placed in such a location as to block exits, means of egress, gates, roadways or entrances.
- (3) In institutions, schools and assembly occupancies, when such buildings are occupied, the roofing kettles shall be enclosed by a substantial barrier. The barrier shall be at least twenty-five (25) feet away from the kettle. The barrier shall clearly indicate that the enclosed area is restricted to use by authorized persons only.
- (4) Suitable supports shall be provided for all piping at intervals not more than twelve (12) feet.

- (5) Roofing kettles and all integral working parts, valves, safety relief devices, burners, pressure tanks and slop-throughs shall be in good working condition and shall be maintained free of excessive residue.
- (6) No person shall maintain an open flame in a roofing kettle while it is being transported or when it is in any public garage or premises where flammable liquids are dispensed. The tar pitch shall not exceed 300° F. while kettle is being transported.
- (7) The tar kettle shall be equipped with a thermometer to register the temperature of the material within the kettle at all times. Tar and tar pitch asphalt shall not be heated to exceed its flash point.
- (8) Ground kettles shall not be fired or used while mounted on the bed of trucks unless the truck body is of all-metal construction and the kettle is securely attached to the body of the truck. Pitch kettles shall not be permitted for use while mounted on the bed of the truck.
- (9) Before any roof kettle is used on the roof of any building, the Fire Prevention Bureau must be notified and a special permit secured for such use. The following minimum equipment must be on hand before burners are ignited:
 - (a) At least one (1) approved fire extinguisher having 20B, C classification.

(b) At least two (2) sacks of dry sand,
50 lbs. each.

- (10) There shall be at least one (1) approved fire extinguisher of 20-B, C classification or larger, readily accessible and within thirty (30) feet horizontal travel of every roofing kettle during the period said roofing kettle is in use.

There shall be at least one (1) approved fire extinguisher of a 20-B, C classification or larger on the roof or area where heated asphalt, tar or pitch is being applied.

- (11) All kettle doors and draw off cock handles must be closed, latched and secured while kettle is in transit.

- (12) All trailers used for transporting kettles or trailer units must be equipped with an adequate safety chain and draw pin when in transit. Both must be attached firmly to the towing vehicle and safetied by a larger diameter bolt with a counterlocked double nut or by a heavy gauge wire safety pin or other device to prevent the kettle or trailer from becoming detached from the towing vehicle while in transit.

(d) Permit Required.

- (1) A permit shall be required for each roofing tanker vehicle or roofing kettle operated by any company, corporation, co-partner or owner/operator performing roofing operations within the Las Vegas City limits.
- (2) Before such permit is issued, it is the responsibility of the owner to have the

roofing tanker vehicle or roofing kettle inspected by the Fire Prevention Bureau of the City of Las Vegas.

- (3) The Fire Prevention Bureau shall affix a numbered, metallic tag or medallion to each unit denoting a permit has been issued and is on file.
- (4) All liquified petroleum containers over five (5) gallon water capacity shall be adequately secured to the towing vehicle by bolts, chains, metal straps or by an approved method to prevent them from being ejected in the event of a traffic accident.
- (5) Support Leg. The support leg shall be constructed of at least one and one-fourth (1-1/4) inch standard steel pipe and shall have a steel foot or pad of at least four inches by four inches by one-fourth inch (4" x 4" x 1/4"). The pin or adjustment rod shall be at least one-fourth (1/4) inch steel. The support leg shall be constructed in a workmanlike manner and shall be adequate to support the kettle while standing.

SECTION 19: Section 12.104 is hereby amended by adding Sub-section (f) as follows:

- (f) All commercial buildings shall be equipped with a minimum of one (1) exit door which, when opened, provides at least 6'8" of height and 36" of width of unobstructed opening. Such exit doors shall be of the swing type.

SECTION 20: Article 24 is hereby amended by adding a new

Section 24.306 as follows:

Section 24.306 Fire Alarms. Communication facilities shall be provided from the roof area to allow notification of the Fire Department or, alternatively, a pull station shall be installed and connected to the fire alarm system installed within the building.

SECTION 21: Section 25.103 is hereby amended by adding a new

Subsection (c) as follows:

- (c) The Fire Department shall be provided a certificate of flame-retardant application, with a fabric sample attached, for all decorative materials.

SECTION 22: Section 30.105 is hereby amended by adding a new

Subsection (c) as follows:

- (c) The construction shall conform to provisions of Section 910 of the Uniform Building Code, Chapter 11 of the Uniform Mechanical Code and Article 503 of the National Electrical Code.

SECTION 23: Section 45.307(c) is hereby amended to read as follows:

- (c) Dip tanks containing a liquid with a flash point below [110°F.] 100°F. (when used in such manner that the liquid temperature may equal or be greater than its flash point from artificial or natural causes) shall conform to Section 45.307(b) when having both a capacity of more than 10 gallons and a liquid surface area of more than 4 square feet.

SECTION 24: Article 74 is hereby deleted in its entirety and N.F.P.A. Standard No. 56F, 1983 Edition, entitled

"Non-Flammable Medical Gas Systems," is adopted in its place. For permits, see Section 5 herein.

SECTION 25: Section 79.110 is hereby amended to read as follows:

Sec. 79.110. Class I liquids and Class II liquids with a flashpoint below [110°F.] 100°F. shall not be used within a building for washing parts or removing grease or dirt unless they are used in a closed machine approved for the purpose or in a separate well-ventilated room constructed in accordance with Section 79.804.

SECTION 26: Section 79.113(c) is hereby amended by adding a new sentence to read as follows:

Proper safeguarding of tanks out of service for ninety (90) days shall be accomplished by filling with water or an inert material.

SECTION 27: Section 79.601 is hereby amended by deleting Subsection (c) thereof and adding a new Subsection (c) to read as follows:

(c) Anchorage for Metal Tanks

- (1) Where a metal tank may become buoyant due to a rise in the level of the water table or due to location in an area that may be subject to flooding, tank(s) shall be anchored in place to prevent their floating or becoming dislodged, in one of the following manners:

(a) Bottom Displacement Slab:

A concrete slab, reinforced with 6" x 6" #10 wire mesh or equal of sufficient size and weight to equal or exceed the displacement of the tanks to be used, shall be poured on the

bottom of the excavation. The size of the slab shall exceed in horizontal dimensions the size of the tank or tanks by one (1) foot in all directions. Straps of steel one-fourth inch by two inches ($1/4" \times 2"$) shall be used to anchor the tank or tanks to the concrete slab in the following manner:

- (1) Straps may be continuous and may be placed under the reinforcement in the slab if they are of sufficient length to completely encircle the tank with a minimum of one (1) foot welded overlap at the top of the tank.
- (2) Straps can be provided with a one (1) foot "T" welded to one end, said "T" to be placed under the reinforcement in the concrete.
- (3) A minimum of two (2) such straps for each tank shall be provided. When, in the opinion of the authority having jurisdiction, more straps are necessary because of the size of the tanks, more shall be provided.
- (4) The overlap of the straps shall be welded. Bolts or other means of fastening shall not be used.

NOTE: Metal tanks may be placed while the concrete is still soft so that full bearing on the tank is obtained, or a cushion of blow sand may be placed

on the hardened concrete to accomplish the same. If a sand cushion is used it shall be a minimum of six (6) inches to accomplish its purpose.

(b) Top Displacement Slab for Metal and Corrosion Resistive Tanks:

Tanks shall be covered with 18 inches (18") of well-tamped earth plus a minimum of 6 inches (6") of concrete or a sufficient amount to overcome buoyancy of the tanks.

Reinforcement of the concrete shall be accomplished by No. 4 rebar, 12 inches (12") on center each way and adequately tied prior to pouring of concrete.

Tanks shall be so placed that a minimum of one (1) foot of space is maintained between tanks.

Backfill of the excavation shall not proceed until approval has been given by the Fire Prevention Bureau. Backfill shall be blow sand or other fine aggregate material.

(c) Tanks Made of Corrosion-Resistive Material

(1) Depth and cover shall be in accordance with the provisions of Section 79.601(b) and/or manufacturer's specifications.

(2) Dry and wet hole procedures for bed and backfill material shall be in accordance with manufacturer's specifications.

- (3) Tanks shall be anchored where high water tables exist, where surface water could flow into the hole or where other water conditions could exist in a dry hole. Anchoring shall be by straps approved by the Chief and installed in accordance with manufacturer's specifications.

SECTION 28: Section 79.605 is hereby amended by adding a new Subsection (e) as follows:

(e) Fiberglas Tanks

Fiberglas tanks shall be pressure-tested, according to the manufacturer's specifications, when placed in a level position in the ground on approved material. Backfilling of the excavation shall not proceed until approval has been given by the Fire Prevention Bureau.

SECTION 29: Section 79.903 is hereby amended by adding thereto paragraphs (7) and (8) as follows:

- (7) Hose nozzle valves used at self-service stations shall be of the approved automatic closing type without a latch-open device. Existing latch-open devices shall be removed.
- (8) Private key-card dispensing operations need not require an attendant on duty provided that the key-card holder has been trained and certified in safe dispensing operations by the licensed card-issuing agency.

SECTION 30: Article 79 is hereby amended by adding a new Section 79.1208 to read as follows:

Sec. 79.1208 Service Vehicles

- (a) Permits. Service vehicles shall have a permit from the Fire Department. Permits shall be issued upon inspection of the service vehicle by the Department. Proof of permit will be required on each service vehicle in the form of a non-ferrous metal tag. The proof of permit will be stamped with the initials L.V.F.D. and the assigned tag number on one side. The proof of permit tag shall be attached to the service vehicle by means of a wire seal and shall be on the vehicle at all times. The proof of permit tag shall be affixed to the outside rear view mirror on the driver's side of the vehicle.
- (b) Definition. Service vehicle shall mean a vehicle used for the purpose of carrying fuel, oil or grease to equipment used in construction, which ordinarily would not be serviced in service stations.
- (c) Service vehicles shall be governed by the following:
- (1) An approved twenty-pound (20 lb.) dry powder extinguisher shall be provided for each vehicle and shall be mounted on the vehicle in a readily accessible location.
 - (2) Tanks on service vehicles used for transporting Class I, II, or III flammable/combustible liquids shall be constructed of steel and shall not exceed one thousand two hundred fifty gallons (1,250 gals.). When such tanks exceed fifty gallons (50 gals.), they shall be equipped with baffles.
 - (3) All flammable liquid tanks shall conform to Article 79 of the Code.
 - (4) When drums are used to house flammable

liquids, they shall be anchored to the service vehicle with iron straps or chains of a suitable gauge. (Fiber rope shall not be used).

- (5) All service vehicles transporting Class I, II, or III flammable/combustible liquids shall carry markings to meet the requirements of Section 79.1004 of this Code.
- (6) Oxygen tanks shall not be carried on the same service vehicle transporting petroleum products.
- (7) L.P.G. tanks carried on service vehicles shall meet the requirements of N.F.P.A. Pamphlet #58.

- (b) Precautions against ignition shall meet the requirements of Section 79.1204 and 79.1205 of this Code.

SECTION 31: Section 80.103 is hereby amended by adding a new Subsection (j) to read as follows:

- (j) Storage shall be maintained in such a manner that all stock is under control of a competent person at all times.

SECTION 32: Article 85 is hereby amended by adding a new Section 85.110 to read as follows:

Sec. 85.110 Shunt-Disconnect Devices.

All approved shunt trip switches, if not located within a fire command center, shall be located outside the structure, in a location approved by the authority having jurisdiction, painted yellow and properly identified as the main disconnect for power to the building.

BILL NO. 83-32
Ordinance No. 3058

AN ORDINANCE TO AMEND TITLE 16, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY REPEALING CHAPTER 16 THEREOF AND ADDING THERETO A NEW CHAPTER 16, ADOPTING BY REFERENCE THE UNIFORM FIRE CODE AND UNIFORM FIRE CODE STANDARDS, 1982 EDITION, AS PART I THEREOF, AND A SUPPLEMENTAL DOCUMENT AMENDING, MODIFYING AND DELETING FROM SAID UNIFORM FIRE CODE, AS PART II THEREOF, PRESCRIBING REGULATIONS TO GOVERN CONDITIONS RELATING TO FIRE AND EXPLOSION WHICH ARE HAZARDOUS TO LIFE AND PROPERTY, PROVIDING FOR THE ESTABLISHMENT OF A BUREAU OF FIRE PREVENTION AND DEFINING THE POWERS AND DUTIES THEREOF; PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; PROVIDING PENALTIES FOR THE VIOLATION HEREOF, AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

Sponsored by:

Councilman Ron Lurie

Summary: Adopts the Uniform Fire Code and Uniform Fire Code Standards, 1982 Edition, with amendments thereto. Provides regulations which govern hazardous conditions relating to fire and explosions, establishes the Fire Prevention Bureau and provides for the powers and duties thereof.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 6th day of July, 1983, and referred to the following committee composed of Councilmen Lurie and Christensen, for recommendation; thereafter the said committee reported favorably on said ordinance on the 3rd day of August, 1983, which was a regular meeting of said Council. That at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE" Councilmen: Christensen, Levy, Lurie, Nolen and Mayor Briggs

VOTING "NAY" Councilmen: None

ABSENT: None

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: August 6, 1983
Las Vegas SUN

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA,
COUNTY OF CLARK

{ ss.

Coralee M. Wilson

, being first duly sworn,

Legal Clerk

deposes and says: That he is _____ of the
LAS VEGAS SUN, a daily newspaper of general circulation, printed and published
at Las Vegas, in the County of Clark, State of Nevada, and that the attached was
continuously published in said newspaper for a period of 1 time.

from August 6, 1983 to August 6, 1983

inclusive, being the issues of said newspaper for the following dates, to-wit:

August 6, 1983.

That said newspaper was regularly issued and circulated on each of the dates
above named.

Signed

Coralee M. Wilson

Subscribed and sworn to before me this 8th
day of August 1983.

Notary Public in and for Clark County, Nevada



My Commission Expires

Notary Public-State of Nevada
COUNTY OF CLARK

My Appointment Expires Apr. 14, 1985

RECEIVED

AUG 9 10 34 AM '83

CITY CLERK

REC-3

06770

BILL NO. 83-32
 AN ORDINANCE TO AMEND TITLE 16
 OF THE MUNICIPAL CODE OF THE
 CITY OF LAS VEGAS, NEVADA, 1983
 EDITION, BY REPEALING CHAPTER 16
 THEREOF AND ADDING THERETO A
 NEW CHAPTER 16, ADOPTING BY REF-
 ERENCE THE UNIFORM FIRE CODE
 AND UNIFORM FIRE CODE STAND-
 ARDS, 1982 EDITION, AS PART I
 THEREOF, AND A SUPPLEMENTAL
 DOCUMENT AMENDING, MODIFYING
 AND DELETING FROM SAID UNIFORM
 FIRE CODE, AS PART II THEREOF;
 PRESCRIBING REGULATIONS TO
 GOVERN CONDITIONS RELATING TO
 FIRE AND EXPLOSION WHICH ARE
 HAZARDOUS TO LIFE AND PROPERTY;
 PROVIDING FOR THE ESTABLISH-
 MENT OF A BUREAU OF FIRE PREVEN-
 TION AND DEFINING THE POWERS
 AND DUTIES THEREOF; PROVIDING
 FOR OTHER MATTERS PROPERLY RE-
 LATING THERETO; PROVIDING PEN-
 ALTIES FOR THE VIOLATION HEREOF;
 AND REPEALING ALL ORDINANCES
 AND PARTS OF ORDINANCES IN CON-
 FFLICT HEREWITH.

Summary: Adopts the Uniform Fire Code
 and Uniform Fire Code Standards, 1982
 Edition, with amendments thereto. Pro-
 vides regulations which govern hazard-
 ous conditions relating to fire and
 explosions, establishes the Fire Preven-
 tion Bureau and provides for the powers
 and duties thereof.
 Sponsored by:
 Councilman Ron Lurie

At a City Council Meeting on
 July 6, 1983.
 BILL NO. 83-32 WAS READ BY
 TITLE AND REFERRED TO RECOM-
 MENDING COMMITTEE:
 COUNCILMEN Lurie and Christensen
 COPIES OF THE COMPLETE ORDI-
 NANCE ARE AVAILABLE FOR PUBLIC
 INFORMATION IN THE OFFICE OF THE
 CITY CLERK, 10TH FLOOR, CITY HALL,
 400 EAST STEWART AVENUE, LAS
 VEGAS, NEVADA.
 PUB: July 20, 1983
 Las Vegas SUN

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA,
 COUNTY OF CLARK

{ ss.

Coralee M. Wilson

, being first duly sworn,

deposes and says: That he is Legal Clerk of the
LAS VEGAS SUN, a daily newspaper of general circulation, printed and published
 at Las Vegas, in the County of Clark, State of Nevada, and that the attached was
 continuously published in said newspaper for a period of 1 time.

from July 20, 1983 to July 20, 1983

inclusive, being the issues of said newspaper for the following dates, to-wit:

July 20, 1983

That said newspaper was regularly issued and circulated on each of the dates
 above named.

Signed

Coralee M. Wilson

Subscribed and sworn to before me this 20th
 day of July 1983.

[Signature]

My Commission Expires



Notary Public in and for Clark County, Nevada

Notary Public-State of Nevada
 COUNTY OF CLARK

My Appointment Expires Apr. 14, 1985

RECEIVED

JUL 27 11 33 AM '83

CITY CLERK

06771