

ORDINANCE 780

CITY OF LACEY

AN ORDINANCE PROVIDING FOR THE UPDATING AND REVISION OF THE VARIOUS CODES REGULATING CONSTRUCTION WITHIN THE CITY, AMENDING SECTIONS 14.04.010, 14.04.015, 14.04.017, 14.05.010, 14.06.010, 14.08.010, 14.10.010, 14.13.140 AND 14.15.010; REPEALING SECTIONS 14.13.060 AND 14.13.160; AND ADDING NEW SECTIONS 14.08.055, 14.13.060 AND 14.13.160 TO THE LACEY MUNICIPAL CODE.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LACEY, WASHINGTON, as follows:

Section 1. Section 14.04.010 of the Lacey Municipal Code is hereby amended to read as follows:

"There is adopted and by this reference made a part of this chapter as though fully set forth herein, at length, that certain code, known as the Uniform Building Code, ~~1982~~ 1985 Edition as modified by WAC 51-16-030, including the appendix therein, and the Uniform Building Code Standards, ~~1982~~ 1985 Edition, as the building code and standards of the city; provided that those sections of the Uniform Building Code set forth in Section 14.04.015 are amended to read as set forth in said section; provided, further, that upon adoption of the 1985 Edition of said code the fees charged pursuant to said code for residential structures shall be equal to 75 percent of the schedule set forth in said code. The rate of fees for residential structures as established shall be reviewed periodically by the City Manager and shall be increased to an amount not exceeding 100 percent of the fees set forth in said code if said increase is necessary in order to make the estimated revenues to be received

from all construction permit fees equal to the estimated expenditures by the City for building department supervision, code enforcement and standard overhead expenses allocated to both of said programs."

Section 2. Section 14.04.015 of the Lacey Municipal Code is hereby amended to read as follows:

"The following sections of the Uniform Building Code as adopted in Section 14.04.010 are amended to read as follows:

"Section 1202(a) General. Buildings or parts of buildings classed in Group R, Division 3, because of the character of the occupancy shall have interior walls and ceilings of not less than three-quarter hour fire-resistive construction and shall be limited to the types of construction set forth in Tables No. 5-c and 5-d and shall not exceed, in area or height, the limits specific in Sections 505, 506, and 507.

"(b) Special Provision. Group R, Division 1 occupancies, more than two stories in height or having more than 3,000 square feet of floor area above the first story, shall be not less than one-hour fire-resistive construction throughout with the following exception:

"Dwelling units within an apartment house not over two stories in height shall have interior walls and ceilings of three-quarter hour fire-resistive construction provided the units are separated from each other and from corridors by construction having a fire-resistance rating of not less than one-hour. Openings

to such corridors shall be equipped with doors conforming to Section 3305(h) or other equivalent protection.

~~"Every-Group-R-1-occupancy-two-or-more-stories-in height-and-containing-three-or-more-dwelling-units-shall-have-an approved-fire-alarm-system-as-specified-in-the-City's-Fire-Alarm Code-~~

"For Group R-1 occupancies with a Group B, Division 1 parking garage in the basement or first floor see Section 702(a)

"For attic space partitions and draft stops see Section 2516(f).

"Section 1807(a) Scope. This section shall apply to all occupancies, A through R, each having floors used for human occupancy located more than 50 feet above the lowest level of fire department vehicle access. Such buildings shall be provided with an approved automatic sprinkler system throughout in accordance with section 1807(c) and safe areas of refuge (compartmentation) in accordance with section 1807(1).

"Section 2516(c)2, Underfloor Clearance. When wood joists or the bottom of wood structural floors without joists are located closer than 18 inches or wood girders are located closer than 12 inches to exposed ground in crawl spaces or unexcavated areas located within the periphery of the building foundation, the floor assembly including posts, girders, joists and subfloor, shall be approved wood of natural resistance to decay as listed in Section 2516(c)3 or treated wood.

"Accessible underfloor areas shall be provided with an 18 inch by 24 inch access crawl hole and a 24 inch by 30 inch access well adjacent to said crawl hole. Pipes, ducts and other nonstructural construction shall not interfere with the accessibility to or within underfloor areas. All underfloor access openings shall be effectively screened or covered.

"Section 3802. Subsection (h) is added to read as follows:

"Notwithstanding any less restrictive provision of this section, this code, or any other adopted code, standard automatic sprinkler systems shall be installed throughout all buildings 35 or more feet in height, or 10,000 or more square feet in gross floor area, provided that one approved area separation wall may be used in accordance with Section 505(e) to maintain the maximum gross floor area stated herein. All openings in area separation walls shall be protected by automatic closing fire assemblies which will close automatically by activation of a smoke detector as per Section 4306(b)2. In all buildings from 5,000 to 10,000 square feet in area, the Fire Chief may impose the requirement for automatic sprinkler systems set forth in this section, when the design or construction of the building or complex of buildings of which it is a part is of such a nature that a fire must be fought from within, and the imposition of such a requirement is necessary in order to comply with the intent of this division and reasonable fire and life safety standards."

Section 3. Section 14.04.017 of the Lacey Municipal Code is hereby amended to read as follows:

"Whenever separate branch circuits are required for exit signs or illumination by sections 3313 and 3314 of the Uniform Building Code or similar provisions of any other adopted codes, separate sources of power shall be utilized in place thereof. Performance standards for such emergency lighting shall be in accordance with section 5-9.2 of NFPA Pamphlet 101, ~~1981~~ 1985 Edition."

Section 4. Section 14.05.010 is hereby amended to read as follows:

"There is adopted by this reference and made a part of this chapter as though fully set forth herein, at length, that certain code, known as the Uniform Mechanical Code, ~~1982~~ 1985 Edition, published by the International Conference of Building Officials, including all appendices and supplements thereto, as the mechanical code of the city; provided, however, that Chapter 20 of the Uniform Mechanical Code, ~~1982~~ 1985 Edition, is superseded and replaced by the requirements of the National Fire Protection Association Pamphlet No. 96, 1984 Edition, which is adopted by this reference and made a part of this chapter as though fully set forth herein, at length."

Section 5. Section 14.06.010 of the Lacey Municipal Code is hereby amended to read as follows:

"The Uniform Plumbing Code and Uniform Plumbing Code Standards, ~~1982~~ 1985 Edition, published by the International Association of Plumbing and Mechanical Officials, are adopted as the plumbing

code for the city, provided, that Chapters 11 and 12 of said code are not adopted."

Section 6. Section 14.08.010 of the Lacey Municipal Code is hereby amended to read as follows:

"There is adopted, except as amended in this chapter, that certain code known as the Uniform Fire Code, including all appendices other than III C, and Uniform Fire Code Standards, ~~1982~~ 1985 Edition, published by the International Conference of Building Officials and the Western Fire Chiefs Association, as the fire code of the city, provided, however, that standard 10-2 shall be the 1985 Edition of the National Fire Protection Association Pamphlet No. 72-a."

Section 7. There is hereby added to the Lacey Municipal Code a new section, 14.08.055 to read as follows:

"The limits referred to in Section 79.501 of the Uniform Fire Code in which storage of flammable liquids in outside above ground storage tanks is prohibited and the limits referred to in Section 82.105(a) of the Uniformed Fire Code, in which bulk storage of liquified petroleum gas is restricted, are established as all areas of the city with a zoning designation other than that of light industrial or industrial."

Section 8. Section 14.10.010 of the Lacey Municipal Code is hereby amended to read as follows:

"There is adopted, for the purpose of prescribing regulations governing the installation, use and maintenance of fire alarm systems within the city, that certain document entitled "~~1980~~

Article 14 Fire Alarm Systems Code-for-City-of-Lacey,"-three-copies of-which-are-new-on-file-in-the-office-of-the-city-clerk and said code is adopted and incorporated as fully as though set out in this chapter at length.

Section 9. Section 14.13.060 of the Lacey Municipal Code is hereby repealed.

Section 10. There is hereby added to the Lacey Municipal Code a new section 14.13.060 to read as follows:

"Three sets of electrical plans and specifications or a wiring schedule, giving the following information, shall be filed before the issuance of a permit for the installation of electrical wiring intended to supply a service of 200 amperes, single phase, or 150 amperes, three phase. Every plan shall be drawn to scale on substantial paper and shall be of sufficient clarity to indicate the location nature and extent of the work proposed and showing in detail that it will conform to the provisions of the Electrical Code and all other relevant laws, ordinances, rules and regulations. Specifications for such plans may be either shown thereon or provided separately. The building official shall require plans, computations and specifications to be prepared and designed by an electrical engineer licensed by the state to practice as such. The wiring plan or schedule required shall contain the following information:

- A. The type, rating and location of any new service equipment;
- B. A feeder diagram or schedule listing each feeder and showing:

- (1) The size of feeder overcurrent device;
- (2) The size of feeder conductors;
- (3) The size of feeder raceway;
- (4) The location of panel boards or load center served;
- (5) The type of occupancy;
- (6) The area served and all special loads;
- (7) The total computed load of lighting, appliances and motors determined as specified in the National Electrical Code as adopted under this chapter.

C. A panel board or load center schedule showing for each panel:

- (1) Bus-bar capacity;
- (2) Voltage rating and phase;
- (3) Number and type of circuit protective devices;
- (4) Short circuit and fault currents shall be shown on riser diagrams to indicate compliance with the Electrical Code Sections 110-9, 110-10, 230-98 and 240-1."

Section 11. Section 14.13.140 of the Lacey Municipal Code is hereby amended to read as follows:

A. The inspector is authorized to disconnect any electrical installation, apparatus or fixture which has been connected before the approval for service has been given. The inspector shall thereupon attach a notice which shall state that such electrical installation, apparatus or fixture has been disconnected because of having been found in violation of the provisions of this chapter.

Any person removing such notice or reconnecting said wiring, apparatus or fixture before the same has been approved by the inspector shall be liable to the penalties of this chapter.

B. To avoid delay in service connection or any interruption of service in the case of a cut over to new service equipment, the holder of the permit shall apply to the inspector for permission to make the cut over, and in addition, shall leave a written notice at the service cabinet stating the date and time of the cut over, signed by the wireman.

C. Upon a determination by the building official that all permanent wiring, conduits, boxes, panels and electrical devices to be installed under the permit have been installed and connected in compliance with this code, the building official shall authorize the serving power utility to make a permanent service connection. No permanent service connection may be made to any structure, prefabricated modular unit, mobile home or other structure or place subject to this code unless authorized by the building official. No changes or additions to the electrical system which are subject to this code shall be made after such authorization to connect has been made without first receiving authorization from the building official.

Section 12. Section 14.13.160 of the Lacey Municipal Code is hereby repealed.

Section 13. There is hereby added to the Lacey Municipal Code a new section 14.13.160 to read as follows:

"All electrical wiring or other installation shall comply with the following supplemental provisions which shall be in effect in the city:

A. Temporary electrical service connections for structures to be built on site, prefabricated modular units and other structures may be made provided an electrical permit for the structure requiring a permanent connection has been issued and the temporary meter base or other device to which the service connection is to be made and its supporting structure meet the requirements of the serving electric utility.

B. On new installations, a main underground service may be tapped to individual sets of service equipment as allowed for in the National Electrical Code; provided such taps are not over five feet in length and provided such taps are wired in conduit from a gutter installed by the customer on the end of the main service conduit, and provided further that the service equipment is accessible to all occupants. Such gutter shall be of sufficient size to accommodate service wires, facilitate the connection of secondary wires, and shall be equipped for sealing by the public service corporation.

C. The sources of power for emergency systems listed as subsection (e) of Section 700-12 of the National Electrical Code shall not be recognized as part of the electrical code of the city.

D. All central heating system appliances using electrical controls shall be permanently connected into a separate circuit(s) for the heating system only.

E. All overhead services and service equipment located beneath roof eaves shall be protected from the shedding of said eaves. A minimum of two-inch rigid metal conduit shall pass through the eave to a minimum height of twenty six inches. A guy is not required on service masts twenty six inches or less above the roof when the service conductor is number two triplex or smaller and less than one hundred feet in length. A guy is required on all meter poles where the service conductor is over fifty feet or the service conductor is larger than 1/0 triplex.

F. The service entrance shall be sized not less than 200 amperes for duplexes.

G. Switchboards, panel boards, and load centers shall not be installed in closets, cabinets, stairways, or in residential bathrooms.

H. AC cable (BX) shall not be installed."

Section 14. Section 14.15.010 of the Lacey Municipal Code is hereby amended to read as follows:

"If there exists or should arise a conflict between the provisions or interpretations of the various uniform codes adopted in those chapters of this title preceding this chapter, the provisions of Chapter 14.04 shall prevail, and any sections or provisions of other codes in conflict therewith shall be considered to be amended to be in conformity with Chapter 14.04 provided, however, that in case of conflict between the ventilation requirements of Sections 605, 705, 905 and 1205 of the Uniform Building Code and the ventilation requirements of the city's energy code contained in

Chapter 14.09 LMC, said Chapter 14.09 shall govern and in case of conflict between the duct insulation requirements of Section 1005 of the Uniform Mechanical Code and the duct insulation requirements of Chapter 14.09 LMC, the provisions of Chapter 14.09 shall govern."

PASSED BY THE CITY COUNCIL OF THE CITY OF LACEY,
WASHINGTON, this 12 day of June, 1986.


CITY COUNCIL

BY 
Mayor

Attest:


City Clerk

Approved as to form:


City Attorney

Published: June 18, 1986

CITY OF LACEY

ARTICLE 14

FIRE ALARM SYSTEMS

SCOPE

Sec. 14.101. (a) This article governs the requirements for the installation and maintenance of fire alarm systems in all occupancies as specified herein. The regulations contained in this article require the installation of electrically supervised fire alarm systems.

(b) In the event of any conflict between fire alarm provisions of the Uniform Building Code, fire alarm provisions of the Uniform Fire Code or the Codes/Standards from the National Fire Protection Association and the regulations contained in this article, this article shall govern.

ALARM SYSTEM TYPES

Sec. 14.102. Alarm systems are divided into the following types:

(a) **Type A.** An electrically supervised fire alarm system installed in accordance with the provisions of Uniform Fire Code Standard No. 10-2 (NFPA Standard No. 72A-1985, Local Protective Signaling Systems...)

(b) **Type B.** An electrically supervised fire alarm system installed in accordance with the provisions of NFPA Standard No. 72B-1986, Auxiliary Protective Signaling Systems.

(c) **Type C.** An electrically supervised fire alarm system installed in accordance with the provisions of NFPA Standard No. 72C-1986, Remote Station Protective Signaling Systems.

(d) **Type D.** An electrically supervised fire alarm system installed in accordance with the provisions of NFPA Standard No. 72D-1986, Proprietary Protective Signaling Systems.

(e) **Type E.** An electrically supervised fire alarm system installed in accordance with the provisions of NFPA Standard No. 71-1985, Central Station Signaling System.

(f) **Type F.** An electrically supervised fire alarm system installed in accordance with the provisions of NFPA Standard No. 74-1984, Household Fire Warning Equipment.

PERMITS

Sec. 14.103. (a) A permit shall be obtained from the bureau of fire prevention to install, alter or replace any fire alarm system or portion of a fire alarm system.

EXCEPTION: No permit is required for the installation of single station smoke or heat sensing fire detectors.

(b) A permit shall be obtained from the electrical authority having jurisdiction for installation of a fire alarm system. This permit must be shown to the Bureau of Fire Prevention before a permit under (a) above is issued.

GENERAL REQUIREMENTS

Sec. 14.104. (a) PLANS AND SPECIFICATIONS Complete plans and specifications of all fire alarm systems shall be submitted for review and approval prior to the system installation. All information required by this article will be prepared by qualified engineers, specialists, laboratory or fire safety specialty organizations acceptable to the chief and to the owner. Plans and specifications shall include, but not be limited to, a floor plan, location of all initiating and signaling devices, control and trouble signaling equipment, annunciation, power connection, battery calculations, wiring type and sizes.

(b) **DESIGN AND INSTALLATION** Fire alarm systems including automatic fire detectors, emergency voice\alarm communication systems and notification devices shall be designed, installed and maintained in accordance with this article and NFPA 72E-1984, NFPA 72F-1985, and NFPA 72G-1985, respectively.

In addition to the requirements of Uniform Fire Code Standard 10-2, required Type A fire alarm systems shall be designed to provide the following system components:

1. **Manual Alarm-actuating devices.** Manual devices may be required in locations normally attended by responsible personnel such as, security stations, nurses' stations and any other location as required by the Chief.

2. **Heat Sensing Fire Detectors.** Heat sensing detectors shall be

2. In areas where smoke sensing fire detectors, other than single station detectors, are provided.

3. Exceptions stated in sections 2-6.4 and 2-6.5 of NFPA 72E-1984.

3. Smoke Sensing Fire Detectors. Smoke sensing detectors shall provide complete coverage in all:

- (i) interior exit corridors,
- (ii) interior exit stairways and
- (iii) when required by Section 3319 (d) Uniform Building Code.

EXCEPTION: Within individual dwelling units of Group R Division I occupancies except that single station smoke detectors shall be provided as required by the Building Code and State Law.

4. Alarm Notification Devices. Visible alarm devices shall be provided at the same locations as audible devices or as required by the Chief.

EXCEPTION: In Group I occupancies visible alarm devices may be used in lieu of audible devices in patient-occupied areas.

Textual audible appliances shall be utilized when required by Section 1807 Uniform Building Code.

5. Other Components. Other fire alarm system components such as but not limited to, flame sensing detectors, gas sensing detectors, textual audible and visible devices etc, may be required by the Chief. This shall be done when in the opinion of the Chief the nature or condition of the protected premises warrants the addition of such components.

(c) **EQUIPMENT** All systems and components shall be listed and approved for the purpose for which installed. All components shall be compatible.

(d) **INSTALLATION** Fire alarm equipment shall be installed by individuals who are in compliance with RCW 19.28 and WAC 296-401-060 as approved by the electrical authority having jurisdiction.

(e) **ACCEPTANCE TEST** Upon completion of the installation or alteration, a satisfactory test of the entire system shall be made in the presence of the Chief. All functions of the system shall be tested.

(g) **LOCATION/SECURITY** The control unit, annunciator panel and access keys to locked fire alarm equipment shall be installed and maintained in a location approved by the Chief.

(h) **INSTRUCTIONS** Written operating instructions shall be provided at a location approved by the Chief.

WHERE REQUIRED

Sec. 14.105. (a) All buildings hereafter constructed which contain 7500 square feet gross floor area or greater shall have a approved automatic and manual Type A fire alarm system with either Type B, C, D, or E off premises monitoring.

EXCEPTION: 1. Group M or R-3 occupancies.

2. One area separation wall constructed in accordance with Section 505(e) Uniform Building Code may be used to increase the size of the building, for the purposes of this section, provided no portion of the building on either side of the wall exceeds 7500 square feet. Additional area separation walls shall not constitute separate buildings for the purposes of this section.

(b) An automatic and manual Type A fire alarm system with either Type B, C, D, or E off premises monitoring shall be installed in the following buildings:

1. Group A, Divisions 1, 2, and 2.1.

2. Group E, having more than 50 occupants.

3. Group H, as follows:

(i) Division 2, used for the manufacture of organic coatings.

(ii) Division 6, as required in Article 51 Uniform Fire Code.

4. Group I.

5. Occupancies required to provide a fire alarm system by section 1807, Uniform Building Code shall meet all the requirements of that section.

(c) Group R Division 1 occupancies two or more stories in height and provided with interior stairways or corridors shall have an automatic and manual Type A fire alarm system throughout.

EXCEPTION: Residential buildings including apartments that consists of four or fewer dwelling units that do not exceed two stories in height and that are less than five thousand square feet in total area.

(d) Those occupancies regulated by the State Fire Marshal shall meet the minimum fire alarm regulations of said agency.

SPECIAL PROVISIONS

Sec. 14.106. (a) SPRINKLER SYSTEMS 1. All new and existing fire sprinkler systems shall be provided with supervisory alarm service by an automatic and manual Type A fire alarm system throughout with either Type B, C, D, or E off premises monitoring.

EXCEPTION: 1. Sprinkler systems with 20 or less heads provided the building does not have a required fire alarm system

2. In existing buildings provided with automatic fire sprinkler systems smoke sensing detectors and manual alarm-actuating devices may be omitted when in the opinion of the Chief they do not constitute a distinct hazard to life or property.

2. The following provisions are applicable when sprinklered occupancies are provided with fire alarm supervisory service:

(i) Water flow signaling attachments shall be provided on each riser and on new installations on each floor when required by the Chief.

(ii) Sprinkler systems shall be interconnected to alarm systems installed in the same building or complex.

(iii) All new sprinkler system installations shall have the following devices supervised by the fire alarm system;

- a. all control valves,
- b. pressure tank water level and air pressure,
- c. fire pumps required to provide required sprinkler system pressure or flow,
- d. dry pipe sprinkler system air pressure.

(b) **FIRE ALARM MONITORING** Fire alarm monitoring shall be provided only by an approved receiving facility meeting the requirements of the applicable fire alarm type and approved by the Chief.

(c) **CONNECTION TO OTHER SYSTEMS** A fire alarm system shall not be used for any purpose other than fire warning unless approved by the chief.

(d) **ANNUNCIATION** Fire alarm systems shall be divided into zones when required by the Chief. When more than two zones are required, an approved supervised graphic annunciator panel shall be provided.

EXCEPTION: A graphic annunciator panel may be omitted when zone annunciation is monitored off premises when approved by the Chief.

(e) **SINGLE STATION SMOKE DETECTORS** Single station smoke sensing detectors shall not be interconnected into a fire alarm system unless approved by the Chief.

MAINTENANCE

Sec. 14.108. (a) MAINTENANCE AND TESTING All fire alarm systems shall be maintained in accordance with the applicable requirements of this article. The Chief shall establish minimum standards for periodic testing of fire alarm systems.

(b) **MAINTENANCE CONTRACT** Fire alarm systems required under this article shall have a maintenance contract in effect with a fire alarm company or person approved by the Chief. Maintenance contracts shall specify service of the fire alarm system within 24 hours of notification of trouble. A copy of the current maintenance contract shall be sent to the Chief.

(c) **FIRE DEPARTMENT NOTIFICATION** The Chief shall be notified whenever any fire alarm system is placed temporarily out of service and upon restoration of service.

AUTOMATIC TELEPHONE DIALING DEVICES

Sec. 14.109. Automatic telephone dialing devices to transmit an emergency alarm shall not be connected to any fire department telephone number unless approved by the Chief.

FALSE ALARMS

Sec. 14.110. (a) In the event of temporary failure of alarm equipment or circuitry or due to false fire alarm activations, the Chief may order the alarm system to be placed out of service until repairs can be made.

(b) In each instance involving more than 2 false alarms that occur from any one system within a continuous 90 day period, the Chief may notify in writing such person, firm or corporation that they may be held responsible for costs of responding to such false alarms if they continue to occur. A penalty of \$25 may be charged against the person, firm or corporation that is responsible for such alarm system, when the number of false alarms exceeds 3 in any 90-day period. When additional false alarms occur in the 90 day period, the cost of each response may be charged per a fee schedule adopted by the local fire jurisdiction having authority, with all fees payable to that authority.