

ORDINANCE NO. 145707

An Ordinance amending Title 31, Fire Regulations, of the City Code by the addition of two sections to provide for automatic fire protective signaling systems and/or devices, to be numbered 31.20.150 and to provide for fixed fire extinguishing systems, by establishing permit requirements and charges related thereto, to be numbered 31.20.310, providing for a number change of the present sections 31.20.150 and 31.20.310, as presently existing, to 31.20.155 and 31.20.315 respectively and deletion of certain references in section 31.20.315, and declaring an emergency.

The City of Portland ordains:

Section 1. The Council finds:

- (1) The Bureau of Fire, Fire Prevention Division, with the approval of the Commissioner in charge, has recommended that Title 31 of the Code of the City of Portland be amended by adding two sections to provide for permit requirements for fixed fire extinguishing systems and automatic fire protective signaling systems and/or devices, providing for examination of plans and establishing fees therefor.
- (2) That the proposed new sections should take the numbering of presently existing sections and that existing sections be renumbered so as to keep the context of the title in an orderly manner.

NOW, THEREFORE, the Council directs:

- A. Title 31 of the Code of the City of Portland is amended by the addition of two sections and by renumbering two existing sections, to be numbered and to read as follows:

31.20.150 Automatic fire protection signaling systems and/or devices.

(a) All fire protection signaling systems and/or devices shall be approved for the purpose for which they are intended, and shall be installed in conformity with applicable N.F.P.A. Standards.

(b) In addition to any permit that may be required by Title 26, Electrical Regulations, a permit shall be obtained from the Bureau of Fire, Fire Prevention Division, prior to the installation, construction, alteration or repair of any protective signaling systems. This is to include but not limited to electrically operated circuits, instruments and devices with the necessary electrical energy designed to transmit alarms, and supervisory and trouble signals necessary for the protection of life and

property. This shall also include compressed gas or liquefied gas-type system, pressure-operated instruments and devices, together with the necessary compressed gas energy to accomplish the same purpose. Complete information regarding the fire protection signaling systems and/or devices, including three sets of electrical specifications, wiring or tubing diagram, and floor plans showing the location of the detectors shall be submitted for approval prior to issuance of a permit for installation.

(c) Approval of protective signaling systems. There shall be no fee for the plans examination or the initial request for final inspection. For any second requested final inspection of any installed, constructed, or altered system that is not approved on the first requested final inspection, there shall be a reinspection fee of \$10.00. If approval is not obtained on the second inspection, the charge for each additional requested final inspection shall be \$25.00.

(d) Acceptance test. Upon completion of the installation, a satisfactory test of the fire protection signaling system and/or devices shall be made in the presence of the designated representative of the Fire Prevention Division. Before requesting final approval of the installation by the Fire Prevention Division, the installing contractor shall furnish a written statement to the effect that the detectors have been installed in accordance with approved plans and tested in accordance with the manufacturer's specifications.

B. Present Section 31.20.150 is amended by changing the number to 31.20.155, Local fire alarm systems required.

C. A new section is added, to be numbered, entitled and to read as follows

31.20.310. Fixed fire extinguishing systems.

a. Permits. In addition to any permit that may be required for water service the main control valve as set forth in Title 25, Plumbing Regulations, a permit from the Bureau of Fire, Fire Prevention Division, is required for the installation, construction, alteration, or repair of any fire extinguishing system. Permits shall be issued after plans for such installation, construction, alteration, or repair have been approved by the Fire Prevention Division. This is to include but not limited to standpipes, sprinkler systems, valves, water tanks, dry chemical systems, CO2 systems, foam systems, etc. All installations shall be made in conformity with applicable N.F.P.A. Standards. Upon completion of work, a satisfactory test of the system shall be made in the presence of the designated representative of the Fire Prevention Division.

b. Sprinkler plan examination and fees. Three sets of mechanical drawings and specifications giving the information required by subsection (b) shall be filed with the Fire Prevention Division before the issuance of any permit for the installation, alteration, or remodeling of said fire extinguishing system.

c. As outlined in N.F.P.A. Standard 13, Installation of Sprinkler Systems, working plans shall be drawn to an indicated scale, on sheets of uniform size, with plan of each floor, made so that they can be easily duplicated, and show the following data:

- (a) Name and owner and occupant;
- (b) Location, including street address;
- (c) Point of compass;
- (d) Ceiling construction;
- (e) Full height cross section;
- (f) Location of fire walls;
- (g) Location of partitions;
- (h) Occupancy of each area or room;
- (i) Location and size of blind spaces and closets, see 4-4.3 to 4-4.17 inclusive, except paragraphs 4-4.5 and 4-4.6;
- (j) Any questionable small enclosures in which no sprinklers are to be installed;
- (k) Size of city main in street, pressure and whether dead-end or circulating and if dead-end, direction and distance to nearest circulating main, city main test results (see B-2-1);
- (l) Other sources of water supply, with pressure or elevation;
- (m) Make, type and orifice size of sprinkler;
- (n) Temperature rating and location of high temperature sprinklers;
- (o) Number of sprinklers on each riser and on each system by floors and total area protected by each system on each floor;
- (p) Number of sprinklers on each riser and total per floor;
- (q) Make, type, model and size of alarm or dry-pipe valve;
- (r) Make, type, model and size of pre-action or deluge valve;
- (s) Kind and location of alarm bells;
- (t) Total number of sprinklers on each dry-pipe system or pre-action system;
- (u) Approximate capacity in gallons on each dry-pipe system;
- (v) Cutting lengths of pipe (or center to center dimensions). NOTE: Where typical branch lines prevail, it will be necessary to size only one line;
- (w) Crosses, riser nipples and size;
- (x) Type of hangers, inserts and sleeves;
- (y) All control valves, checks, drain pipes and test pipes;
- (z) Small hand hose and hose equipment;
- (aa) Underground pipe size, length, location, weight, material, point of connection to city main; the type of valves, meters, and valve pits; and the depth that top of the pipe is laid below grade;
- (bb) Provision for flushing (see paragraph 3-7.2);
- (cc) When the equipment to be installed is an addition to an old group of sprinklers without additional feed from the yard system, enough of the old system shall be indicated on the plans to show the total number of sprinklers to be supplied and to make all conditions clear;
- (dd) Name and address of contractor.

d. No fee shall be charged for the plans examination or the initial requested final inspection.

(3) If such building has ten thousand square feet or less in basement area within the foundation lines, said sprinkler system shall be as provided above in subdivision (2), except that the following deviations are allowed: A. The water service connection for said sprinkler system may be two inches in diameter IPS (Iron Pipe Size); B. if the basement area is less than five thousand square feet, said system shall have one or more two and one-half inch pumper connections placed on the street front of the building in an unobstructed position at least one foot and not more than four feet above the sidewalk grade. Such pumper connection to be for use by firefighting apparatus in order to increase the water pressure in the sprinkler system and to be connected with the sprinkler system as directly as possible by means of one two and one-half inch IPS; and C. if the basement area be more than five thousand square feet but less than ten thousand square feet within foundation lines said system shall have at least one two and one-half two-way Siamese pumper connection placed as provided in the above paragraph and connected as directly as possible to the main sprinkler system supply by means of a four inch IPS iron pipe;

(4) Where an electrical alarm system is installed as permitted by applicable standards of sprinkler installation, the conductors of the system power supply circuit shall be connected on the line side of the main service of a commercial light or power supply circuit or to the main bus bars of an isolated power plant located on the premises. A fuse enclosed in a locked or sealed cabinet located immediately adjacent to the point of connection to the light and power conductors shall be provided in series with each ungrounded conductor;

(5) if in any such basement area there are one or more floor drains, said drains shall be clearly marked by placing on the ceiling immediately above them the word "DRAIN" in letters six inches in height and having a stroke one inch in width, and a color sharply contrasting with the background. The fire marshal may also require the installation of similar directional signs by which to indicate the location of hidden or remotely located sprinkler control valve;

(6) The basement areas exempt from the provisions of this section are:

- A. A single family dwelling,
- B. A two family dwelling,
- C. A three family flat or apartment building,
- D. A four family flat or apartment building,
- E. A building having a basement area of less than one thousand square feet and containing no combustible material of any kind,
- F. That portion of any basement occupied for dwelling purposes in conformity with code requirements; and also any basement which meets all of the following requirements: at least one-third of its average height is above the grade of the building; at least three feet of its average height is above the grade of the building; there are at least two means of access by exterior windows or doors, and each window counted provides an opening not less than twenty-two inches high and thirty inches wide, above the grade of the building and above the adjacent ground surface. This exemption shall not apply to basements of hospitals or places of refuge.

ORDINANCE No.

G. That portion of any basement area of a building Type I or II construction which is not used for storage of combustible goods to the extent that such area would constitute a fire hazard, or for retail purposes, and which portion is divided from the remainder of the basement area by a noncombustible constructed wall. Also that portion of a basement area where sprinklers are undesirable because of the nature of the contents;

(7) Owners of premises coming within the application of this section after October 30, 1958, as a result only of changes in the boundaries of the first and second fire districts as defined in the building regulations shall have five years within which to comply with the provisions of this section. Such five year period shall commence on October 22, 1967, to include such premises, provided, however, that as an exercise of the police power and for the public safety the fire marshal shall have authority to order and direct the installation of a sprinkler system as herein defined at any time prior to the expiration of the five years in any particular premises, and provided further, that the owner, agent or other person having control of any premises in which the installation of a sprinkler system is ordered by the fire marshal prior to the expiration of the five year period shall have the right of appeal to the council. The order of the fire marshal for the installation of a sprinkler system shall be in writing. Appeal from the order shall be in writing and shall be filed with the council within ten days of the date of the fire marshal's order.

Section 2. The Council declares an emergency exists in order to permit immediate implementation of the permit requirements to insure the systems that are the subject matter of the code changes hereinabove are installed in conformity with applicable National Fire Prevention Association Standards; therefore, this ordinance shall be in force and effect from and after its passage by the Council.

Calendar No. 1222

142505

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Passed by the Council, **MAY 11 1978**

Commissioner McCreedy
April 12, 1978
FJSargant/lh

[Handwritten signature]
Mayor of the City of Portland

Attest:

[Handwritten signature]
Auditor of the City of Portland

Calendar No. 1555

ORDINANCE NO. 145707

Title

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THURSDAY

THE COMMISSIONERS VOTED AS FOLLOWS:		
	Yeas	Nays
Maunite	1	
Jordan	1	
McCready	1	
Schwab	1	
Goldschmidt	1	

FOUR-FIFTHS CALENDAR		
Ivancie		
Jordan		
McCready		
Schwab		
Goldschmidt		

Filed MAY 4 1978
GEORGE YERKOVICH
 Auditor of the CITY OF PORTLAND

By *John Grace*
 Deputy

INTRODUCED BY
COMM. McCready

NOTED BY THE COMMISSIONER

Affairs _____
 Finance and Administration _____
 Safety _____
 Utilities _____
 Works cm/ty

BUREAU APPROVAL

Bureau: Bureau of Fire
 Prepared By: _____ Date: _____
 Sargent/1h 4/12/78

Budget Impact Review:

Completed Not required

Bureau Head: *John G. Pratt*

NOTED BY

City Attorney _____
 City Auditor *[Signature]*
 City Engineer _____