

ORDINANCE 542

(Continued from Preceding Page)

Prevention of the City of Birmingham Fire Department or any authorized representative thereof.

300.06-1 City.—The word City shall mean the City of Birmingham, a public municipality.

300.06-2 Container.—The word CONTAINER shall mean any vessel used for the transportation of flammable liquids which can be removed from the vehicle by engine or hand operation.

300.06-3 Flammable liquids.—The term DIP TANKS shall mean a tank, vat or piping system.

300.07-1 Dip Tanks.—The term DIP TANKS shall mean a tank, vat or piping system for the purpose of coating, finishing, treating or similar processes.

300.08 Dry Cleaning.—The term DRY CLEANING shall mean the removal of dirt, stains or other substances from fabrics by the use of immersion, agitation or spraying of flammable liquids or by brushing or scouring with such liquids.

300.09 Dry Dyeing.—The term DRY DYEING shall mean the process of dyeing in a solution of dry colors and flammable liquids.

300.10 Explosives.—The term EXPLOSIVES shall mean any chemical compound or mechanical mixture which contains oxidizing and combustible units, or other ingredients, in such proportions, quantities or arrangements that an ignition by fire, by explosion, by concussion, by packing that an ignition by fire, by explosion, by concussion, by packing that a sudden generation of highly heated gases that the resulting gaseous pressures are capable of doing destructive effects.

300.11 FIRE DISTRICT.—The fire district shall include the following territory: (a) All property included in "Business B-1, B-2, and B-3 District" and "Industrial (I) District"; classifications of Ordinance No. 527, as amended, being the Zoning Ordinance, to be included in the Fire District; (b) All property included in "Business B-1, B-2, and B-3 District" and "Industrial (I) District"; classifications of Ordinance No. 527, as amended, being the Zoning Ordinance, to be included in the Fire District; (c) All property included in "Business B-1, B-2, and B-3 District" and "Industrial (I) District"; classifications of Ordinance No. 527, as amended, being the Zoning Ordinance, to be included in the Fire District.

300.12 FIRE LIMITS.—To control types of construction based on inherent fire hazard of use groups of buildings, the City of Birmingham shall establish fire limits and define FIRE LIMITS to include all areas in which congested business, commercial and public assembly uses are or may be housed.

300.13 Fire Marshal.—The term FIRE MARSHAL shall include any officer, member or inspector of the Fire Department designated in section 100.01-1.

300.14 Flammable Liquids.—The term FLAMMABLE LIQUIDS shall mean liquids other than liquefied gases, which gives off flammable vapors (as determined by flash point from closed cup tester) below a temperature of 200 degrees FAHRENHEIT (133 degrees CELSIUS).

300.15 Garage.—The term PUBLIC GARAGE shall mean a building or portion thereof in which motor vehicles are stored, stored, repaired or kept, except when used for the storage of motor vehicles only and such storage is used in connection with the business of section 100.01-1.

300.16-1 Hardening and Tempering Tanks.—The term HARDENING and TEMPERING TANKS shall mean tanks used for the heat treatment of metal by immersion of hot metal into tanks containing oil.

300.17 Multiple Dwelling.—The term MULTIPLE DWELLING shall include detached buildings, duplexes or two (2) dwelling units.

300.17-1 Open Light.—The term OPEN LIGHT shall mean an exposed, unprotected or a device such as oxy-acetylene torch, candles, forges, gas stoves, heaters or any similar device.

300.18 Panic Hardware.—The term PANIC HARDWARE shall mean any device which opens or closes doors in which the latch combines in a unit the locking devices, the door lock and top and bottom latches. The usual height of such hardware shall be as described in accordance with said resolution and indicated on a map of the City of Birmingham, which map shall be available for reference in the office of the Fire Department.

300.19 Person.—The term PERSON shall include any individual, partnership, firm, corporation or other legal entity.

300.20 Place of Assembly.—The term PLACE OF ASSEMBLY shall include all rooms or spaces with an occupancy capacity of more than 50 persons for any purpose, whether for political, social, political, social, or religious purposes; for entertainment or recreation; for public halls, churches or other similar occupancies.

300.22 Retail Station.—The term RETAIL STATION shall include any installation from which flammable liquids are sold direct to the consumer.

300.23 Spotting.—The term SPOTTING is the cleaning of materials by the local application of flammable liquids to spots of dirt, grease or other contaminants.

300.23-1 Spray Booth.—The term SPRAY BOOTH shall mean a metal or noncombustible enclosure properly equipped to confine and remove vapors or fumes from the spray area.

300.24 Tank.—The word TANK shall mean any vessel used for the transportation of flammable liquids which is fixed to a vehicle or other structure and is not removable from the vehicle, fixed in place, or connected to a piping system.

300.25 Tank Truck.—The term TANK TRUCK means any vehicle equipped with a spray booth or other type of tank, with a tank or tanks, herein referred to as truck tank, other than fuel supply tank for the motor of such vehicle, used for transporting flammable liquids.

CHAPTER IV

DIP TANKS, SPRAY PAINTING AND SPRAY BOOTHS

400.01 Dip Tank—Amount of Flammable Liquid Allowed.—The storage or use of flammable liquids for the operation of dip tanks shall not exceed the quantities as set forth in section 500.10 of this ordinance.

400.02 Ventilation.—The floor of rooms in which dip tanks are used shall be located above grade to provide natural drainage for heavy vapors from the floor, due consideration being given to depth of snow or other obstructions, vents being placed at the ceiling and along the floor, and the floor shall be finished to drain toward the vents.

400.02-1 Natural ventilation is not sufficient to provide a complete change of air every five minutes a mechanical ventilation system shall be provided for the room.

400.02-2 Blowers, when required, shall be operated long enough after the process is shut down each day to prevent the settling back into the room of the heavy vapors which may be contained in the tubes.

400.03 Control of Hazards. Dip tanks shall be located a safe distance away from furnaces, open flames or other producing equipment, and shall be less than (20) twenty feet. Heating shall comply with the requirements of section 500.05.

400.03-1 Belting should be eliminated, any necessary drives for section or chain drives in order that the production of static electricity may be minimized. All metal and in the vicinity of the hazard, including building structures, shall be grounded.

400.03-2 All electric apparatus in the dipping room shall be of the type approved by the Electric Code of the City of Birmingham and all wiring shall be in accordance with the Code.

400.04 Construction and Installation of Dip Tanks. Dip tanks shall be made of heavy metal of non-combustible material which may be kept intact to avoid the possible production of sparks.

and in no case shall extend more than (1) one foot in any direction beyond the tank except that in some cases it may be desirable to include the drip booth. This additional area shall be covered by the automatic extinguishing system which protects the tank. Where dip tanks are located in open areas, the whole should be considered as one hazard, and special protection provided accordingly.

400.05-1 Heat actuated release devices used to operate automatic covers, drains or automatic extinguishing equipment are to be of approved construction. The same heat actuated devices may be used to operate two or more forms of automatic protection, such as heat sensitive release devices, fire extinguishers, etc.

400.06-2 Where there is a standard automatic sprinkler system, heat actuated devices controlling special protection shall be subject to the same requirements as the standard automatic sprinkler system over the tank and drain booth.

400.07 Dip Tank Drains.—If of over 240 gallons capacity and have a floor square of more than 100 square feet, a tank shall be provided with an approved, automatically and manually operated drain.

400.08 Overflow.—Tanks other than those included in section 500.10 shall have 10 square feet of liquid surface area shall have an overflow pipe of not less than 3 inches in diameter.

400.09 Protection.—Tanks containing Class I flammable liquids, regardless of surface area, shall be protected by an automatic fire extinguishing system.

400.10-2 All tanks having 10 or more square feet of flammable liquid surface area shall be provided with automatic covers. Where this is impractical an approved automatic fire extinguishing system shall be provided.

400.10-3 All tanks, containing other than Class I flammable liquids, having 20 square feet or more of liquid surface area shall be provided with automatic covers.

400.10-4 Tanks containing less than 10 square feet of flammable liquid surface area shall be provided with automatic covers.

400.10-5 Covers shall be arranged to close automatically in case of fire by approved means, such as by a spring, or by a weight, or by other means, but shall be kept closed when tanks are not in use.

400.11 Hardening and Tempering Tanks.—All the requirements of section 400.10 shall apply where applicable.

400.12 Regulating Oil Temperature.—Where a continuous process of tempering machine is used, the oil from the tempering tank to the cooling tank, the relation of the speed of the machinery and circulating capacity shall be so adjusted as to prevent the oil from becoming too hot.

400.13 Fire Vent.—Hot oil tanks unless located under a very high or fire-resistive ceiling shall be provided with a non-combustible hood or cover, and shall be provided with a fan to draw the vapors out of the hood. In some cases a fan may be necessary, but its use should be avoided where adequate ventilation otherwise can be obtained.

400.14 Tank Location.—Tanks shall not be located on or near combustible materials. Tanks shall be kept well away from doors. Door sills into other rooms, if near tanks, shall be raised to prevent the flow of oil or water carrying fire.

400.15 Overflow Pipe and Drains.—Where a tank is provided with an overflow pipe, the pipe shall be arranged automatically to drain the oil to a safe place.

400.16 Fire Protection.—Fire protection shall be as listed in this ordinance for dip-tanks.

400.17 Location of the process shall be under smooth ceilings and open to the atmosphere. The ceiling shall be of non-combustible material, classed as 2C, or better, by the Building Code of the City of Birmingham.

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400.19 Sheathing is not required where there is adequate ventilation.

400.20 All open joint channels leading to spaces over such sheathing shall be adequately stopped off. Channels shall be filled with a non-combustible material, such as asbestos, to minimize fire hazard directly to the joint is not approved.

400.21 Air inlets should be protected by automatic fire shutters or other devices. The location of the process shall be under smooth ceilings and open to the atmosphere. The ceiling shall be of non-combustible material, classed as 2C, or better, by the Building Code of the City of Birmingham.

400.22 Where automatic conveyors for goods pass through the sides of spray booths a horizontal curtain shall be placed over such openings on the sides of the booth and to not less than 10 inches wide. This is to prevent fire from quickly passing up the outside of the booth before sprinklers install.

400.23 Any spraying shall be performed in a spray booth as specified above or spray room as described below. If spraying is performed in a room, the room shall be separated from the remainder of the building by a partition of fire resistive construction equivalent to cement or gypsum plaster on metal lath or wooden studding or wooden studding covered on both sides with sheet iron. Doors in openings in spray room partition shall be equal in fire resistance to partitions and shall be of the self-closing type or installed as to close automatically in case of fire. Ventilation fans, electrical equipment, etc. for spraying rooms shall be as described above for spray booths.

400.24 The application of flammable finishes in spray booth, dipping or other similar methods shall be carried on only in a booth or room as described above which is equipped with automatic fire protection.

400.25 Blowers and gas burning equipment which has not been tested by some competent recognized authority and found to be properly safeguarded, shall not be used in the room.

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400.27 Each booth or spraying enclosure shall have one or more independent exhaust ducts.

400.28 A sufficient clearance, or a ventilated collar shall be provided to protect combustible material or construction against ignition by radiant heat in the event of fire in the duct or stack.

400.29 Exhaust systems shall be so designed as to maintain sufficient air velocity and circulation to adequately remove vapors and residue to prevent all possibilities of explosive mixtures forming in the ducts.

400.30 Exhaust systems should preferably be indirect, the fans and source of power being located outside the booth or enclosure and the exhaust ducts shall be protected by a fire-resistive material.

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designed that dusts will not accumulate on the motor and provided that such motor and associated apparatus for starting shall be of the type which assures full ventilation at all times when in use, a single fan is recommended for each spraying unit; if more than one fan is used, control shall be interlocked so that the fan cannot be interrupted by a fire in the spraying process, that the fan may be kept in operation in case of fire, the whole should be considered as one hazard, and special protection provided accordingly.

400.33 Where necessary for accessibility for cleaning, ducts and stacks shall be provided with doors with strong fastenings.

400.34 All tanks shall be rigid and strong, there is a possibility of the spring coming in contact with the lamp or fixture.

400.35-2 All motors in or within the radius of (20) twenty feet from a spray booth shall be of the explosion-proof type, open-induction type having no brushes, make and break contacts, collectors or other arcing sparking parts.

400.36 If lamps in and within (20) twenty feet of a spray booth shall be of the type approved for explosive atmospheres or may be of the enclosed "vapor-light" type.

400.37 In so-called recovery booths, designed to salvage deposits by collecting them in a solution tank at the back of the booth, the ventilating fans and the motor driving the solution pump shall be of the same circuit controlled by the same switch so that the fans or pumps cannot run separately from each other.

400.38 Containers, paints, lacquers, and such flammable liquids shall be stored and handled in accordance with the requirements of Chapter 10 of this Ordinance.

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shall be at a point in such building most remote from the point of storage for removal to the street.

500.09 Special Storage Rooms or Buildings. Special rooms or buildings for storage of flammable liquids shall be constructed in accordance with the following: provided however, that when in the opinion of the Fire Marshal the extent of the storage of flammable liquids is so small that the construction of the quantity and nature of flammable liquids involved and the extent of mixing operations together with the character of the mixing operations are to be located, and of exposed buildings, construction affording a greater degree of protection shall be required.

500.10 Storage of Class I, II and III Liquids in Frame and Other Buildings. The storage of flammable liquids inside buildings shall be as given under the following sub-sections; provided that in a special room conforming to the requirements given in section 500.09 an additional amount of storage of Class I and II liquids is prohibited in places of public assembly.

500.10-1 Maximum limit of any tank or container 60 gallons, except as permitted in section 500.25 for heating. Total storage, other than that provided for in section 500.25, in sealed containers, not to exceed 120 gallons.

500.10-2 In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 300 gallons.

500.10-3 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-4 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-5 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-6 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-7 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-8 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-9 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-10 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-11 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-12 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-13 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-14 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-15 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-16 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-17 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-18 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-19 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-20 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-21 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-22 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-23 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-24 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-25 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-26 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-27 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-28 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

500.10-29 Outside fire limits.—In Frame Buildings: (a) In sealed containers (purchased, handled, stored and offered for resale) without breaking seal or opening container in any manner and in a room or building as described in section 500.09, not to exceed a total storage of 500 gallons.

CHAPTER 5

FLAMMABLE LIQUIDS

500.01 Scope. This ordinance shall apply to all new plants, stores, equipment, installations, and, except as otherwise specified to existing plants, stores, equipment and installations in so far as the intent of the sections can be reasonably interpreted to apply to the removal of deposits of flammable liquids shall be governed by this ordinance whether or not specifically named in this ordinance.

500.01-2 No person shall store any flammable liquids without first securing a permit therefor. Such flammable liquids shall be stored in underground tanks, in underground tanks, or in containers as provided by section 500.02.

500.02 Classification of Flammable Liquids. For the purpose of this ordinance, flammable liquids are divided into classes according to their boiling points, Class I, II, III, and IV.

CLASS I. Liquids with flash point below 25 degrees Fahrenheit (-4 degrees