Zoning Resolution

THE CITY OF NEW YORK
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CITY PLANNING COMMISSION
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42-43 - Performance Standards Regulating Smoke, Dust and Other Particulate Matter

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42-43 - Performance Standards Regulating Smoke, Dust and Other Particulate Matter

LAST AMENDED
6/6/2024

42-431 - Definitions

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6/6/2024

For the purposes of this Section, the following terms are defined:

Combustion for indirect heating
"Combustion for indirect heating" is the burning of fuel in equipment, such as steam boilers, water or air heaters, stills, or brew kettles, where there is no contact between the products of combustion and the materials being heated.

Dust
"Dust" is solid #particulate matter# capable of being air- or gas-borne.

Particulate matter
"Particulate matter" is any finely divided liquid or solid matter capable of being air- or gas-borne.

Process weight
"Process weight" is the total weight of all materials used in any process which discharges #dust# into the atmosphere. Such materials shall include solid fuels, but not liquid or gaseous fuels or combustion air.

Smoke

"Smoke" is any visible emission into the open air from any source, except emissions of an uncontaminated water vapor.

Smoke unit

A "smoke unit" is a measure of the quantity of #smoke# being discharged and is the number obtained by multiplying the #smoke# density in a #Standard Smoke Chart number# by the time of emission in minutes. For example, the emission of #Standard Smoke Chart number# 1 for one minute equals one #smoke unit#.

Standard Smoke Chart numbers

"Standard Smoke Chart numbers" are the numbers on the Standard Smoke Chart of the Department of Air Pollution Control that coincide most nearly with the grids on the Standard Smoke Chart indicating graduations of light-obscuring capacity of #smoke#.

42-432 - Maximum permitted emission of smoke

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6/6/2024

In all #Manufacturing Districts#, the density of emission of #smoke# during normal operations shall not exceed #Standard Smoke Chart number# 2, and the quantity of #smoke# shall not exceed a maximum of 10 #smoke units# per hour per stack in M1 Districts, 20 such units in M2 Districts, and 30 such units in M3 Districts. The method of measurement, additional limitations on the emission of #smoke# of a density not exceeding #Standard Smoke Chart number# 2, and the maximum permitted density and quantity of #smoke# during special operations such as building new fires, banking, or cleaning fires, soot blowing, or process purging, shall be determined in accordance with rules and regulations adopted by the Department of Environmental Protection.

42-433 - Maximum permitted emission of dust

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(a) Related to #combustion for indirect heating#

In all #Manufacturing Districts#, the emission into the atmosphere of #dust# related to #combustion for indirect heating# from any source shall not exceed the maximum number of pounds of #dust# per million British thermal units heat input per hour as set forth herein:

(1) In M1 Districts

In M1 Districts, the maximum permitted emission shall be 0.50 pounds for minimum-size plants producing a heat input of 10 million or less British thermal units per hour and 0.15 for maximum size plants producing a heat input of 10,000 million or more British thermal units per hour. All intermediate values shall be determined from a straight line plotted on log graph paper.

(2) In M2 or M3 Districts

In M2 or M3 Districts, the maximum permitted emission for such minimum-size plants shall be 0.60 in M2 Districts and 0.70 in M3 Districts, and for such maximum-size plants shall be 0.16 in M2 Districts and 0.18 in M3 Districts. All intermediate values shall be determined from a straight line plotted on log graph paper.

(b) Related to processes

In all #Manufacturing Districts#, the emission into the atmosphere of process #dust# or other

#particulate matter# which is unrelated to #combustion for indirect heating# or incineration shall not exceed 0.50 pounds per hour for 100 pounds of #process weight# or 50 pounds per hour for 100,000 pounds of #process weight#. All intermediate values shall be determined from a straight line plotted on log graph paper.

(c) Total limit on emission of #dust# or other #particulate matter# in M1 or M2 Districts

In M1 or M2 Districts the maximum amount of #dust# or other #particulate matter# from all sources including #combustion for indirect heating#, process #dust#, or combustion for incineration which may be emitted from a single stack or vent shall not exceed 33 pounds per hour in M1 Districts, nor 250 pounds per hour in M2 Districts.

(d) Method of measurement and #dust# from incineration

In all #Manufacturing Districts#, the method of measurement and permitted emission of #dust# related to combustion for incineration shall not exceed the maximum allowances established under rules and regulations adopted by the Department of Environmental Protection.

(e) Prevention of wind-blown air pollution

In all #Manufacturing Districts#, all storage areas, yards, service roads, or other untreated open areas within the boundaries of a #zoning lot# shall be improved with appropriate landscaping or paving, or treated by oiling or any other means as specified in rules and regulations adopted by the Department of Environmental Protection, so that #dust# or other types of air pollution borne by the wind from such sources shall be minimized.

42-434 - General control over smoke and other particulate matter

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6/6/2024

In addition to the performance standards of regulating #smoke# and other #particulate matter#, the emission of such matter shall be so controlled in manner and quantity of emission as not to be detrimental to or endanger the public health, safety, comfort, or other aspects of the general welfare, or cause damage or injury to property.