

Sec. 146-134. Performance Standards.

All uses in all districts shall conform in operation, location, and construction to the performance standards hereinafter specified.

- (1) *Noise.* At no point at the bounding property line of any use shall the sound pressure level of any operation or plant exceed the decibel limits specified in the octave band groups designated in the following table:

a. *Octave band frequencies.*

Octave band (cycles per second)	Maximum permitted sound pressure level (decibels)
20—75	86
75—150	76
150—300	70
300—600	65
600—1,200	63
1,200—2,400	58
2,400—4,800	55
4,800—10,000	53

- b. *Corrections.* The following corrections shall be made to the table of octave band, decibel limits in determining compliance with the noise level standards:

Type of operation or character of noise	Correction in decibels
Noise source operates less than 20 percent of any one-hour period	Plus 5*
Noise source operates less than 5 percent of any one-hour period	Plus 10*
Noise source operates less than 1 percent of any one-hour period	Plus 15*
Noise of impulsive character (hammering, etc.)	Minus 5 Noise of periodic character
(hum, screech, etc.)	Minus 5
Noise present at night	Minus 7

*Apply one correction only.

- c. Daytime hours. Daytime shall refer to the hours between 6:00 a.m. and 9:00 p.m. on any given day.
- d. Boundary property line. The bounding property line shall be interpreted as being at the far side of any street, alley, stream, or other permanently dedicated open space from the noise source when such open space exists between the property line of the noise source and adjacent property. When no such open space exists, the common line between two parcels of property shall be interpreted as the bounding property line.
- e. Noise measurement. Measurement of noise shall be made with a sound level meter or octave band analyzer meeting the standards prescribed by the American Standards Association.
- f. Exemptions. The following uses and activities shall be exempt from the noise level regulations herein specified:
 - 1. Noises not directly under control of the property user;
 - 2. Noises emanating from construction and maintenance activities during daytime hours;
 - 3. Noises of safety signals, warning devices, and emergency pressure relief valves; ~~and~~
 - 4. Transient noise of moving sources such as automobiles, trucks, airplanes, ~~helicopters,~~ and railroads;
 - 5. Noises caused by back-up utility operations for 24 hour health care facilities with emergency services; ~~and,~~
 - 4.6. Noises caused in the performance of emergency or public service work, including police, fire and public utility operations acting in the performance of lawful duties to protect the health, safety or welfare of the community.

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(2) *Smoke and particulate matter.*

- a. No operation or use in any district shall cause, create, or allow the emission for more than three minutes in any one hour of air contaminants, which at the emission point or within the bounds of the property are:
 - 1. As dark or darker in shade as that designated as No. 2 on the Ringelmann Chart as published by the United States Bureau of

Mines Information Circular 7118, or in violation of the standards specified by the state air control board regulations for the control of air pollution as published by the state department of health or as such regulations may be amended; or

2. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke or contaminants in the standard prescribed in subsection (2)a.1 of this section, except that when the presence of uncombined water is the only reason for failure to comply or when such contaminants are emitted inside a building, which prevents their escape into the outside atmosphere, the standards in subsection (2)a.1 of this section shall not apply.
- b. The open storage and open processing operations, including on-site transportation movements, which are the source of wind or airborne dust or other particulate matter, or which involve dust or other particulate air contaminant generating equipment such as used in paint spraying, grain handling, sand or gravel processing, or storage or sandblasting shall be so conducted that dust and other particulate matter so generated are not transported across the boundary line of the tract on which the use is located in concentrations exceeding four grains per 1,000 cubic feet of air.

(3) *Odorous matter.*

- a. No use shall be located or operated in any district, which involves the emission of odorous matter from a source of operation where the odorous matter exceeds the odor threshold at the bounding property line or any point beyond the tract on which such use or operation is located.
- b. The odor threshold as herein set forth shall be determined by observation by a person or persons. In any case, where uncertainty may arise or where the operator or owner of an odor-emitting use may disagree with the enforcing officer or where specific measurement of odor concentration is required, the method and procedures as specified by the American Society for Testing Materials ASTM D1391-57 entitled "Standard Method for Measurement of Odor in Atmospheres" shall be used and a copy of ASTM D1391-57 is hereby incorporated by reference.

(4) *Fire and explosive hazard material.*

- a. No use involving the manufacture or storage of compounds or products, which decompose by detonation shall be permitted in any

district except that chlorates, nitrates, perchlorates, phosphorus and similar substances and compounds in small quantities for use by industry, school laboratories, druggists, or wholesalers may be permitted when approved by the fire department.

- b. The storage and use of all flammable liquids and materials such as pyroxylin plastics, nitrocellulose film, solvents, and petroleum products shall be permitted only when such storage or use conforms to the adopted fire codes and building codes of the city.

(5) *Toxic and noxious matter.* No operation or use shall emit a concentration across the bounding property line of the tract on which such operation or use is located of toxic or noxious matter which will exceed ten percent of the concentration (exposure) considered as the threshold limit for an industrial worker as such standards are set forth by the state department of health in Threshold Limit Values Occupational Health Regulation No. 3, a copy of which is hereby incorporated by reference and is on file in the office of the chief building official of the city.

(6) *Vibration.* No operation or use shall at any time create earthborn vibration, which, when measured at the bounding property line of the source of operation, exceeds the limits of displacement set forth in the following table in the frequency ranges specified.

Frequency (cycles per second)	Displacement (inches)
0 to 10	0.0010
10 to 20	0.0008
20 to 30	0.0005
30 to 40	0.0004
40 and over	0.0003

(7) *Waste materials.* No use or operation shall discharge into the open, onto the ground, or into any drainageway, open pit, or pond any waste materials, liquids, residue, or by-products for storage, decomposition, disposal, or fill, unless approved by the chief building official.

(8) *Allowable construction hours.* Allowable construction hours in all zoning districts shall be as follows:

Monday through Friday	6:00 a.m. to 9:00 p.m.
Saturday	8:00 a.m. to 5:00 p.m.
Sunday	1:00 p.m. to 5:00 p.m.