

Section 14
PERFORMANCE STANDARDS

- 14.01 Purpose
- 14.02 Noise
- 14.03 Air Pollution
- 14.04 Water Pollution
- 14.05 Open Burning
- 14.06 Toxic or Noxious Matter
- 14.07 Odors
- 14.08 Fire and Explosive Hazards
- 14.09 Vibration
- 14.10 Glare or Heat

14.01 PURPOSE

Performance standards set forth herein are established to protect the public health, safety, comfort, convenience and the general welfare of the City and to promote a more desirable environment in which to live and work within the City.

14.02 NOISE

No person shall emit beyond the boundary of his property any sound that unreasonably interferes with the enjoyment of life or with any lawful business or activity or so as to violate any rule set forth herein. Lands are to be classified into three classes; Class A is to consist of areas especially noise sensitive in that they incorporate sleeping quarters, namely residential and institutional uses. Class B is to consist of Retail Commercial and Office Commercial land uses, as well as recreational and open space uses. Class C is to include all industrial and manufacturing uses.

The applicable land use designation for undeveloped land shall be determined by the predominant land use of the surrounding property or, if no use is predominant, by the most restrictive designation applicable to any of the surrounding property.

The following standards shall apply.

1. No person shall cause or allow the emission of any noise to abutting Class A property from land used as designated below in excess of the levels specified below, in the designated octave bands, when measured at any point on or beyond the property line of the land on which the noise originates.

Daytime (7:00 a.m. to 10:00 p.m.):

Octave Band Center Frequency (Hertz)	Maximum Sound Pressure Levels (dB) at Emitter's Property Line		
	C	B	A
31.5	75	72	72
63	74	71	71
125	69	65	65
250	64	57	57

500	58	51	51
1000	52	45	45
2000	47	39	39
4000	43	34	34
8000	40	32	32
A-level	61 dB (A)	55 dB (A)	55 dB (A)

NIGHTTIME (10:01 p.m. to 6:59 a.m.):

Octave Band Center Frequency (Hertz)	Maximum Sound Pressure Levels (dB) at Emitter's Property Line		
	C	B	A
31.5	69	63	63
63	67	61	61
125	62	55	55
250	54	47	47
500	47	40	40
1000	41	35	35
2000	36	30	30
4000	32	25	25
8000	32	25	25
A-level	51 dB (A)	45 dB (A)	45 dB (A)

No person shall cause or allow the emission of any noise to abutting Class B property from land used as designated below in excess of the levels specified below, in the designated octave bands, when measured at any point on or beyond the property line of the land on which the noise originates.

24 HOURS PER DAY:

Octave Band Center Frequency (Hertz)	Maximum Sound Pressure Levels (dB) at Emitter's Property Line		
	C	B	A
31.5	88	79	72
63	83	78	71
125	74	72	65
250	69	64	57
500	63	58	51
1000	57	52	45
2000	52	46	39
4000	48	41	34

8000	45	39	32
A-level	66 dB (A)	62 dB (A)	55 dB (A)

No person shall cause or allow the emission of any noise to abutting Class C property from land used as designated below in excess of the levels specified below, in the designated octave bands, when measured at any point on or beyond the property line of the land on which the noise originates.

24 HOURS PER DAY:

Octave Band Center Frequency (Hertz)	Maximum Sound Pressure Levels (dB) at Emitter's Property Line	
	C	All Other
31.5	88	79
63	83	78
125	78	72
250	73	64
500	67	58
1000	60	52
2000	54	46
4000	50	41
8000	47	39
A-level	70 dB (A)	62 dB (A)

14.03 AIR POLLUTION

The City adopts the State of Illinois Environmental Protection Agency Air Pollution Regulations. The State of Illinois Environmental Protection Agency Air Pollution Regulations as adopted by the Illinois Pollution Control Board on April 14, 1972 and published by the Illinois Environmental Protection Agency and all amendments thereto, are hereby adopted by reference and made part of this chapter. One copy of said regulations shall be kept on file in the City Hall for public inspection. Any person who violates any provision of said regulations shall be subject to the penalties provided for the violation of this Zoning Code.

14.04 WATER POLLUTION

The City adopts the State of Illinois Environmental Protection Agency Water Pollution Regulations. The State of Illinois Environmental Protection Agency Water Pollution Regulations as adopted by the Illinois Pollution Control Board on March 7, 1972 and published by the Illinois Environmental Protection Agency and all amendments thereto, are hereby adopted by reference and made part of this Section 14. One copy of said regulations shall be kept on file in the City Hall for public inspection. Any person who violates any provision of said regulations shall be subject to the penalties provided for the violation of this Zoning Code.

14.05 OPEN BURNING

The City adopts the State of Illinois Environmental Protection Agency Open Burning Pollution Regulations. The State of Illinois Environmental Protection Agency Open Burning Regulations as adopted by the Illinois Pollution Control Board on September 2, 1971 and published by the Illinois Environmental Protection Agency and all amendments thereto are hereby adopted by reference and made part of this Section 14. One copy of said regulations shall be kept on file in the City Hall for public inspection. Any person who violates any provision of said regulations shall be subject to the penalties provided for the violation of this Zoning Code.

14.06 TOXIC OR NOXIOUS MATTER

No use shall, for any period of time, emit into the atmosphere, store on site, dispose on site or discharge across the boundaries of the lot wherein it is located, toxic or noxious matter in such concentrations as to be detrimental to, or endanger the public health, safety, comfort or welfare, or cause injury or damage to property or business.

14.07 ODORS

The emission of odorous material in such quantity as to be readily detectable at any point along lot lines, or as to produce a public nuisance or hazard beyond lot lines is prohibited.

14.08 FIRE AND EXPLOSIVE HAZARDS

The BOCA Basic Fire Prevention Code (current edition) shall be applicable to all buildings, structures and appurtenances thereof.

14.09 VIBRATION

Any operation or activity which shall cause, at any time and at any point along the nearest adjacent lot line, earth borne vibrations (other than background vibrations produced by some source not under control of this Zoning Code), such as the operation of motor vehicles or other transportation facilities, in excess of the limits set forth in Column I herein, is prohibited. In addition, any operation or activity which shall cause at any time and at any point along a residential boundary line, earth borne vibrations in excess of the limits set for in Column II herein is prohibited. Vibration shall be expressed as displacement in inches and shall be measured with a three component measuring system approved by the City.

Frequency (Cycles per Second)	I* Displacement (inches)	II* Displacement (inches)
0 to 10	.0008	.0004
10 to 20	.0005	.0002
20 to 30	.0002	.0001
30 to 40	.0002	.0001
40 and over	.0001	.0001

* Steady state vibrations, for the purpose of this Zoning Code, which are continuous or, if in discrete pulses, are more frequent than 100 per minutes. Impact vibrations, that is, discrete pulses which do not exceed 10 impulses per minute, shall not cause in excess of twice the displacements stipulated.

14.10 GLARE OR HEAT

No use or activity shall be permitted which causes glare or heat to be transmitted or reflected in such quantities as to be detrimental or harmful to the use of adjacent properties.

pjh:Marengo.Zone\Section14.Performance