

ARTICLE 44

NOISE

SECTION 4401 METHOD OF MEASUREMENT

For the purpose of measuring the intensity and frequency of sound, the sound level meter, the octave band analyzer, and the impact noise analyzer shall be employed. The flat network and the fast meter response of the sound level meter shall be used. Sounds of short duration as from forge hammers, punch presses, and metal shears which cannot be measured accurately with the sound level meter shall be measured with the impact noise analyzer.

Octave band analyzers calibrated in the Preferred Frequencies (American Standards Association S1, 6-1960, Preferred Frequencies for Acoustical Measurements) shall be used with Table I (A through D). Octave band analyzers calibrated with pre-1960 octave band (American Standards Association Z24-10-1953, Octave Band Filter Set) shall use Table II (A through D) in Sections 4404 through 4406, inclusive. For impact sounds measured with the impact noise analyzer, the sound pressure levels set forth in Tables I and II (A through D) may be increased by six (6) decibels in each octave band.

SECTION 4402 EXEMPTIONS

The following uses and activities shall be exempt from the noise level regulations:

- A. Noises not directly under the control of the property owners or users.
- B. Noises emanating from construction and maintenance activities between 7 a.m. and 9 p.m.
- C. The noises of safety signals, warning devices, and emergency pressure relief valves.
- D. Transient noises of moving sources such as automobiles, trucks, airplanes, and railroads.

SECTION 4403 REQUIRED PERFORMANCE LEVEL

No operation or activity shall cause or create noise in excess of the sound levels prescribed herewith.

SECTION 4404 STANDARDS IN THE "B-1" THROUGH "B-4" BUSINESS DISTRICTS AND "I-1" LIGHT INDUSTRIAL DISTRICT

- A. In the "B-1" through "B-4" and the "I-1" Districts at no point on or beyond the boundary of the Zoning District, shall the sound pressure level resulting from any use, operation or activity exceed the maximum permitted sound levels as set forth in Table IA and IIA.

Table IA, Preferred Frequencies

Center Frequency, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
31.5	67
63.0	66
125.0	59
250.0	52
500.0	46
1,000.0	37
2,000.0	26
4,000.0	17
8,000.0	

Table IIA, Pre-1960 Octave Bands

Octave Band, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
20 - 75	67
76 - 150	66
151 - 300	61
301 - 600	54
601 - 1200	47
1201 - 2400	39
2401 - 4800	29
4801 - 10 KC	20

- B. At Lot Lines in the "B-1" through "B-4" and the "I-1" Districts at no point on or beyond the boundary of any lot, shall the sound pressure level resulting from any use, operation or activity exceed the maximum permitted decibel levels for the designated octave bands as set forth in Tables IB and IIB.

Table IB, Preferred Frequencies

Center Frequency, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
31.5	76
63.0	74
125.0	68
250.0	63
500.0	57
1,000.0	52
2,000.0	45
4,000.0	38
8,000.0	32

Table IIB, Pre-1960 Octave Bands

Octave Band, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
20 - 75	75
76 - 150	70
151 - 300	64
301 - 600	59
601 - 1200	53
1201 - 2400	47
2401 - 4800	40
4801 - 10 KC	34

SECTION 4405 STANDARDS IN THE "I-2" GENERAL INDUSTRIAL DISTRICT AND "PD-4" PLANNED INDUSTRIAL PARK DISTRICT

In the "I-2" and the "PD-4" Districts at no point on or beyond the boundary of the Zoning District, shall the sound pressure level resulting from any use, operation, or activity exceed the maximum permitted sound levels as set forth in Tables IC and IIC.

Table IC, Preferred Frequencies

Center Frequency, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
31.5	76
63.0	74
125.0	68
250.0	63
500.0	57
1,000.0	52
2,000.0	45
4,000.0	38
8,000.0	32

Table IIC, Pre-1960 Octave Bands

Octave Band Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
20 - 75	75
76 - 150	70
151 - 300	64
301 - 600	59
601 - 1200	53
1201 - 2400	47
2401 - 4800	40
4801 - 10 KC	34

SECTION 4406 STANDARDS IN THE "I-3" HEAVY INDUSTRIAL DISTRICT

In the "I-3" District at no point on or beyond the boundary of the Zoning District, shall the sound pressure level resulting from any use, operation, or activity exceed the maximum permitted sound levels as set forth in Tables ID and IID.

Table ID, Preferred Frequencies

Center Frequency Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
31.5	90
63.0	81
125.0	71
250.0	66
500.0	61
2,000.0	52
4,000.0	50
8,000.0	47

Table IID, Pre-1960 Octave Bands

Octave Band, Cycles Per Second	Maximum Permitted Sound Pressure Level, Decibels
20 - 75	83
76 - 150	74
151 - 300	67
301 - 600	62
601 - 1200	57
1201 - 2400	53
2401 - 4800	51
4801 -10 KC	48

Between the hours of 9 p.m. and 7 a.m., the sound levels shall not exceed the maximum permitted sound pressure levels prescribed for the "I-2" and "PD-4" Districts in Section 4405.