

REGULATION 3.01

Ambient Air Quality Standards

**Louisville Metro Air Pollution Control District
Jefferson County, Kentucky**

Relates To: KRS Chapter 77 Air Pollution Control

Pursuant To: KRS Chapter 77 Air Pollution Control

Necessity And Function: KRS 77.180 authorizes the Air Pollution Control Board to adopt and enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation establishes ambient air quality standards to protect public health and welfare.

SECTION 1 Definitions

Terms used in this regulation shall have the meaning given to them in Regulation 1.02, *Definitions*.

SECTION 2 Purpose

The ambient air quality standards in Section 7 of this regulation establish concentrations of air contaminants, measured over a time-averaging interval, that are necessary to protect public health with an adequate margin of safety and public welfare from any known or anticipated adverse effects of these air contaminants.

SECTION 3 Non-Degradation

The ambient air quality standards in Section 7 of this regulation are intended to prevent the significant deterioration of air quality in those areas where the air quality is presently numerically equal to or better than the standard.

SECTION 4 General Prohibition

No person shall cause or allow the emission of an air contaminant that would violate, or interfere with the attainment or maintenance of, an ambient air quality standard.

SECTION 5 Methods of Measurement

The air contaminant concentrations listed in sections 7.1 to 7.7 shall be measured by the reference or equivalent methods and at the frequency specified in 40 CFR Parts 50, 53, and 58 relating to ambient air quality surveillance.

SECTION 6 Savings Clause

Any emission standard established pursuant to Regulation 3.04 *Ambient Air Quality Standards* sections 1.7, 2.7, 2.8, or 2.9 and included as a permit condition as of July 1, 2005, shall remain in effect until replaced with an emission standard established pursuant to Regulation 5.21.

SECTION 7 Ambient Air Quality Standards

The following air contaminant concentrations shall be applied, achieved and maintained in Jefferson County, Kentucky:

Pollutant		Maximum Concentration	
		Primary Standard	Secondary Standard
7.1	Carbon Monoxide		
7.1.1	8-Hour Average	9 ppm ⁽¹⁾	None
7.1.2	1-Hour Average	35 ppm ⁽¹⁾	
7.2	Lead		
7.2.1	Rolling 3-Month Average	0.15 µg/m ³	Same as primary
7.3	Nitrogen Dioxide		
7.3.1	Annual Average	0.053 ppm	Same as primary
7.3.2	1-Hour Average	100 ppb ⁽²⁾	
7.4	Ozone		
7.4.1	8-Hour Average	0.075 ppm (2008 std) ⁽⁶⁾	Same as primary
7.4.2		0.08 ppm ⁽³⁾ (1997 std) ⁽⁷⁾	
7.5	Particulate Matter (measured as PM _{2.5})		
7.5.1	Annual Average	15.0 µg/m ³ ⁽⁴⁾	Same as primary
7.5.2	24-Hour Average	35 µg/m ³ ⁽⁵⁾	
7.6	Particulate Matter (measured as PM ₁₀)		
7.6.1	24-Hour Average	150 µg/m ³ ⁽³⁾	Same as primary
7.7	Sulfur Oxides		
7.7.1	3-Hour Average	-----	0.5 ppm ⁽¹⁾
7.7.2	1-Hour Average	75 ppb ⁽⁸⁾	-----
7.8	Hydrogen Sulfide		
7.8.1	Maximum 1-Hour average		14 µg/m ³ ⁽¹⁾
7.9	Gaseous Fluorides (expressed as HF)		
7.9.1	Annual Arithmetic Mean	400 µg/m ³	
7.9.2	Maximum 1-Month Average		0.82 µg/m ³⁽¹⁾
7.9.3	Maximum 1-Week Average		1.64 µg/m ³⁽¹⁾
7.9.4	Maximum 24-Hour Average	800 µg/m ³⁽¹⁾	2.86 µg/m ³⁽¹⁾
7.9.5	Maximum 12-Hour Average		3.68 µg/m ³⁽¹⁾
7.10	Total Fluorides ⁽⁹⁾		
7.10.1	Growing Season ⁽¹⁰⁾		40 ppm (w/w)
7.10.2	2-Month Average		60 ppm (w/w)
7.10.3	1-Month Average		80 ppm (w/w)

- ¹ Not to be exceeded more than once per year.
- ² To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb. (Effective January 22, 2010.)
- ³ Not to be exceeded more than once per year on average over 3 years.
- ⁴ To attain this standard, the 3-year average of the weighted annual mean PM_{2.5} concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m³.
- ⁵ To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m³. (Effective December 17, 2006.)
- ⁶ To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (Effective May 27, 2008.)
- ⁷ (a) To attain this standard, the 3-year average of the fourth highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm. (b) The 1997 standard – and the implementation rules for that standard – will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard. (c) EPA is in the process of reconsidering the standards set in March 2008.
- ⁸ To attain this standard, the 3-year average of the 99th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 75 ppb. (Final rule signed June 2, 2010.)
- ⁹ Dry weight basis (as fluoride ion) in and on forage for consumption by grazing ruminants.
- ¹⁰ Average concentration of monthly samples over growing season (not to exceed 6 consecutive months).

Adopted v1/4-19-72; effective 4-19-72; amended v2/9-1-76, v3/6-13-79, v4/6-21-05 effective 7-1-05, v5/4-20-11.