

REGULATION 3.01 Ambient Air Quality Standards

Air Pollution Control District of Jefferson County 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 standard 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* section 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 Standards	Secondary Standards
	Carbon Monoxide		
	8-Hour Average	9 ppm ⁱ	None
	1-Hour Average	35 ppm ⁱ	
	Lead	0.15 ug/m ³ ⁱⁱ	Same as Primary
	Rolling 3-Month Average		
	Nitrogen Dioxide		
	Annual Average	0.053 ppm ⁱⁱⁱ	Same as Primary
	1-Hour Average	100 ppb ^{iv}	
	Ozone		
	8-Hour Average	0.070 ppm (2015 std) ^v	Same as Primary
	8-Hour Average	0.075 ppm (2008 std) ^v	Same as Primary
	Particulate Matter (measured as PM_{2.5})		
	Annual Average	12.0 ug/m ³ (2012 Std) ^{vi}	15.0 ug/m ³ ^{vi}
	Annual Average	15 ug/m ³ (1997 Std) ^{vi}	Same as Primary
	24-Hour Average	35 ug/m ³ ^{vii}	
	Particulate Matter (measured as PM₁₀)		
	24-Hour Average	150 ug/m ³ ^{viii}	Same as Primary
	Sulfur Oxides		
	3-Hour Average	-	0.5 ppm ⁱ
	1-Hour Average	75 ppb ^{ix}	-
	Hydrogen Sulfide		
	Maximum 1-Hour average		14 ug/m ³ ⁱ
	Gaseous Fluorides (expressed as HF)		
	Annual Arithmetic Mean	400 ug/m ³	

	Maximum 1-Month Average		0.82 ug/m ³ ⁱ
	Maximum 1-Week Average		1.64 ug/m ³ ⁱ
	Maximum 24-Hour Average	800 ug/m ³ ⁱ	2.86 ug/m ³ ⁱ
	Maximum 12-Hour Average		3.68 ug/m ³ ⁱ
	Total Fluorides ^x		
	Growing Season ^{xi}		40 ppm (w/w)
	2-Month Average		60 ppm (w/w)
	1-Month Average		80 ppm (w/w)

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, v6/09-21-16, v7/02/15/17.

-
- i Not to be exceeded more than once per year.
 - ii Not to be exceeded.
 - iii Annual Mean
 - iv 98th percentile of 1 hour daily maximum concentrations, averaged over 3 years
 - v Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years
 - vi Annual mean, averaged over 3 years
 - vii 98th percentile, averaged over 3 years
 - viii Not to be exceeded more than once per year on average over 3 years
 - ix 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
 - x Dry weigh basis (as fluoride ion) in and on forage for consumption by grazing ruminants.
 - xi Average concentration of monthly samples over growing season (not to exceed 6 consecutive months)

	Date Submitted	Date Approved	Federal Register
Original Reg:	06/29/79	01/25/80	45 FR 6092
1st Revision:	07/20/99	10/23/01	66 FR 53658
2nd Revision:	3/22/11	12/6/2016	81 FR 87817
3rd Revision:	12/21/16	05/11/18	83 FR 21907