NEBRASKA ADMINISTRATIVE CODE

Title 129 - Department of Environmental Quality

Chapter 4 - AMBIENT AIR QUALITY STANDARDS

The ambient air quality standards for the State of Nebraska are:

001 Particulate Matter

001.01 PM_{10}

Primary and secondary standards

~~50 micrograms per cubic meter~~
~~annual arithmetic mean~~

150 micrograms per cubic meter
24 hour average with not more than one exceedance per year

(Attainment of these standards are determined in accordance with Appendix K of 40 CFR Part 50 which is adopted and incorporated herein).

001.02 $PM_{2.5}$

Primary and secondary standards

15.0 micrograms per cubic meter
annual arithmetic mean

~~65~~ 35 micrograms per cubic meter
24 hour average

(Attainment of these standards is determined in accordance with Appendix N of 40 CFR Part 50 which is adopted and incorporated herein).

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002 Sulfur dioxide

002.01 Primary standards

80 micrograms per cubic meter (0.03 ppm)
annual arithmetic mean

365 micrograms per cubic meter (0.14 ppm)
maximum 24-hour concentration not to be exceeded more than once a year

002.02 Secondary standard

1300 micrograms per cubic meter (0.5 ppm)
as a 3-hour concentration not to be exceeded more than once a year

003 Nitrogen dioxide

Primary and secondary standard

100 micrograms per cubic meter (0.05 ppm)
annual arithmetic mean

004 Carbon monoxide

Primary and secondary standards

10 milligrams per cubic meter (9 ppm)
as a maximum 8-hour concentration not to be exceeded more than once a year

40 milligrams per cubic meter (35 ppm)
as a maximum 1-hour concentration not to be exceeded more than once a year

Change proposed for July EQC on page 4-1

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005 Ozone

Primary and secondary standard
235 micrograms per cubic meter (0.12 ppm)
as a maximum l-hour concentration not to be exceeded more than one day a year

(Attainment of this standard is determined in accordance with Appendix H of 40 CFR Part 50; which is adopted and incorporated herein).

Primary and secondary standard
0.08 parts per million (0.08 ppm)
as a daily maximum 8-hour average concentration

(Attainment of this standard is determined in accordance with Appendix I of 40 CFR Part 50; which is adopted and incorporated herein).

006 Lead

Primary and secondary standard
1.5 micrograms per cubic meter
calendar quarter arithmetic mean

007 Total reduced sulfur

10.0 parts per million (10.0 ppm)
maximum 1 minute average concentration
0.10 parts per million (0.10 ppm)
maximum 30-minute rolling average

007.01 Except as provided in 007.01A and 007.01B these standards apply only where human exposure occurs.

007.01A Ambient concentrations of total reduced sulfur (TRS) emissions occurring as a result of natural activities that have no associated economic benefits, such as seasonal stratification or turnover of lakes and lagoons, and the release of water uncontaminated by process or industrial activity from lakes, reservoirs, lagoons and water impoundment systems shall not constitute violation of the standards contained in section 007.

007.01B The Department shall provide reasonable opportunity for any owner or operator of any source causing or contributing to a violation of the standards in 007 to develop and implement a program to eliminate such violations prior to taking enforcement action.

007.02 Unless otherwise approved by the Director, the levels of TRS in the ambient air shall be measured using a TRS thermal converter in conjunction with an SO_2 monitor. The SO_2 monitor shall be designated as an EPA reference method or equivalent method in accordance with 40 CFR Part 53. In combination, the monitor must meet or exceed the following minimum specifications:

007.02A Lower detection limit of 0.4 ppb (parts per billion);

007.02B Zero Drift less than 0.5 ppb in 24 hours and less than 1 ppb in 7 days at constant conditions;

007.02C Span Drift of less than 0.5 percent of the reading in 24 hours and less than 1 percent of the reading in 7 days at constant conditions;

007.02D Precision of 0.5 percent of the reading; and

007.02E Linearity of 1 percent of full scale.

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007.03 A rolling average shall be considered valid if there is data for at least 75 percent of the period in question. In the event that less than 100 percent of the data are available, the rolling average shall be computed on the basis of the data available using the number of data available as the divisor.

007.04 The standards are attained when all of the following conditions are met:

007.04A The one-minute concentration is less than or equal to 10.0 ppm, rounded to one decimal place (fractional parts equal to or greater than 0.05 ppm must be rounded up);

007.04B The 30-minute rolling arithmetic mean concentration is less than or equal to 0.10 ppm, rounded to two decimal places (fractional parts equal to or greater than 0.005 ppm must be rounded up);

Enabling Legislation: Neb. Rev. Stat. §§81-1504(1)(2), 81-1505(1)(12)

Legal Citation: Title 129, Ch. 4, Nebraska Department of Environmental Quality