

Rule 21. Ambient Air Quality Standards.

Ambient air quality standards are as given in the following table:

*Ambient Air Quality Standards*

| <b>Pollutant</b>                             | <b>Averaging Time</b>                   | <b>Primary Standard</b>              | <b>Secondary Standard</b> |
|--|---|--------------------------------------|---------------------------|
| <b>Carbon Monoxide</b>                       | 8-hour                                  | 9 ppm<br>(10 mg/m <sup>3</sup> )     | Same as primary           |
|  | 1-hour                                  | 35 ppm<br>(40 mg/m <sup>3</sup> )    | Same as primary           |
| <b>Lead</b>                                  | Quarterly Average                       | 1.5 µg/m <sup>3</sup>                | Same as Primary           |
| <b>Nitrogen Dioxide</b>                      | Annual (Arithmetic Mean)                | 0.05 ppm<br>(100 µg/m <sup>3</sup> ) | Same as Primary           |
| <b>Particulate Matter (PM<sub>10</sub>)</b>  | Annual <sup>(1)</sup> (Arithmetic Mean) | 50 µg/m <sup>3</sup>                 | Same as Primary           |
|  | 24-hour <sup>(2)</sup>                  | 150 µg/m <sup>3</sup>                | Same as Primary           |
| <b>Particulate Matter (PM<sub>2.5</sub>)</b> | Annual <sup>(3)</sup> (Arithmetic Mean) | 15.0 µg/m <sup>3</sup>               | Same as Primary           |
|  | 24-hour <sup>(4)</sup>                  | 65 µg/m <sup>3</sup>                 | -----                     |
| <b>Ozone</b>                                 | 8-hour <sup>(5)</sup>                   | 0.08 ppm                             | Same as Primary           |
|  | 1-hour <sup>(6)</sup>                   | 0.12 ppm                             | Same as Primary           |
| <b>Sulfur Dioxide</b>                        | Annual (Arithmetic Mean)                | 0.03 ppm<br>(80 µg/m <sup>3</sup> )  | -----<br>-                |
|  | 24-hour                                 | 0.14 ppm<br>(365 µg/m <sup>3</sup> ) | -----                     |

|   |         |       |   |
|---|---------|-------|---|
|   | 3-hour  | ----- | 0.5 ppm (1,300 $\mu\text{g}/\text{m}^3$ ) |
| <b>Gaseous Fluorides<br/>(expressed as HF) <sup>(7)</sup></b> | 30-day  | ----- | 1.5 ppb (1.2 $\mu\text{g}/\text{m}^3$ )   |
|   | 7-day   | ----- | 2.0 ppb (1.6 $\mu\text{g}/\text{m}^3$ )   |
|   | 24-hour | ----- | 3.5 ppb (2.9 $\mu\text{g}/\text{m}^3$ )   |
|   | 12-hour | ----- | 4.5 ppb (3.7 $\mu\text{g}/\text{m}^3$ )   |

Notes: ppm – parts per million  
ppb – parts per billion  
 $\text{mg}/\text{m}^3$  – milligrams per cubic meter of air  
 $\mu\text{g}/\text{m}^3$  - micrograms per cubic meter of air

- (1) This standard is attained when the expected annual arithmetic mean concentration, as determined in accordance with 40 CFR Part 50, Appendix K, is less than or equal to 50  $\mu\text{g}/\text{m}^3$ .
- (2) This standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$ , as determined in accordance with 40 CFR Part 50, Appendix K, is less than or equal to one.
- (3) To attain this standard, the 3-year average of the weighted annual mean  $\text{PM}_{2.5}$  concentrations from single or multiple community-oriented monitors must not exceed 15.0  $\mu\text{g}/\text{m}^3$ .
- (4) 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 65  $\mu\text{g}/\text{m}^3$ .
- (5) 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.
- (6) The standard is attained when the expected number of days per calendar year, with maximum hourly average concentrations above

0.12 ppm, as determined in accordance with 40 CFR Part 50, Appendix H is less than or equal to one.

- (7) Sources that emit gaseous fluorides, including hydrogen fluoride, and that are within a source category (including sources that would otherwise be included in the source category but fall below emissions or size thresholds for the source category) for which the EPA has promulgated standards under Section 112 of the Clean Air Act are deemed to be in compliance with any requirements under these standards if they meet any and all applicable requirements of the federal standards. These standards are not applicable to sources subject to 40 CFR Part 63, Subpart LL.

THIS IS THE FEDERALLY APPROVED REGULATION AS OF AUGUST 12, 1997

|                          | DATE SUBMITTED<br>to EPA | DATE APPROVED<br>by EPA | FEDERAL<br>REGISTER |
|--------------------------|--------------------------|-------------------------|---------------------|
| Original Reg             | JUL 20, 1989             | MAY 8, 1990             | 55 FR 19066         |
| 1 <sup>st</sup> Revision | DEC 11, 1995             | AUG 12, 1997            | 62 FR 43109         |
| 2 <sup>nd</sup> Revision | JUN 26, 2008             | OCT 04, 2018            | 83 FR 50022         |