

Rule 21. Ambient Air Quality Standards.

Ambient air quality standards as given in Table I.

Table I

All values other than annual values are maximum concentrations not to be exceeded more than once per year. Parts per million (PPM) values are approximate only. All concentrations relate to air at standard conditions of 25 degrees centigrade temperature and 760 millimeters mercury pressure.

$\mu\text{g}/\text{m}^3$  - Micrograms per  
 AGM - Annual geometric mean  
 AAM - Annual arithmetic cubic meter mean

| Contaminants                      | Primary Standard         |               |                    | Secondary Standard       |               |                    |
|-----------------------------------|--------------------------|---------------|--------------------|--------------------------|---------------|--------------------|
|                                   | Concentration            |               | Averaging Interval | Concentration            |               | Averaging Interval |
|                                   | $\mu\text{g}/\text{m}^3$ | ppm by volume |                    | $\mu\text{g}/\text{m}^3$ | Ppm by volume |                    |
| Total Suspended Particulates      |                          | --            |                    | 150                      | --            | 24 hour            |
| PM <sub>10</sub>                  | 50                       |               | AAM                | 50                       |               | AAM                |
|                                   | 150                      |               | 24 hour            | 150                      |               | 24 hour            |
| Sulfur Dioxide                    | 80                       | 0.03          | AAM                | 1,300                    | 0.5           | 3 hour             |
|                                   | 365                      | 0.14          | 24 hour            |                          |               |                    |
| Carbon Monoxide                   | 10,000                   | 9.0           | 8 hour             | 10,000                   | 9.0           | 8 hour             |
|                                   | 40,000                   | 35.0          | 1 hour             | 40,000                   | 35.0          | 1 hour             |
| Ozone                             | 235                      | 0.12          | 1 hour             | 235                      | 0.12          | 1 hour             |
| Nitrogen Dioxide                  | 100                      | 0.05          | AAM                | 100                      | 0.05          | AAM                |
| Lead                              | 1.5                      |               | Calendar Quarter   | 1.5                      |               | Calendar Quarter   |
| Gaseous Fluorides Expressed as HF |                          |               |                    | 1.2                      | 1.5           | 30 days            |
|                                   |                          |               |                    | 1.6                      | 2.0           | 7 days             |
|                                   |                          |               |                    | 2.9                      | 3.5           | 24 hours           |
|                                   |                          |               |                    | 3.7                      | 4.5           | 12 hours           |

Notes:

1. The 24-hour standards are 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 by 40 Code of Federal Regulations Part 50, Appendix K, which has been incorporated by reference in

Chapter 4, is equal to or less than one. The annual standards are attained when the expected annual arithmetic mean concentration, as determined in accordance with Appendix K as cited above, is less than or equal to 50  $\mu\text{g}/\text{m}^3$ .

2. The standard attained when the expected number of days per calendar year with maximum hourly concentrations above 0.12 ppm ( $235 \mu\text{g}/\text{m}^3$ ) is equal to or less than 1 as determined by the 40 Code of Federal Regulations Part 50, Appendix H, which has been incorporated by reference in Chapter 4.

3. Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) are approximately only, as they pertain to gaseous fluorides.

4. All averaging intervals are consecutive time periods.

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             | 55FR19066           |
| 1 <sup>st</sup> update | DEC 11, 1995             | AUG 12, 1997            | 62FR43109           |

Printed January 13, 2006