

**CHAPTER 1200-3-3  
AIR QUALITY STANDARDS**

**1200-3-3-.01 PRIMARY AIR QUALITY STANDARDS**

Primary ambient air quality standards define levels of air quality believed adequate, with an appropriate margin of safety, to protect public health.

**Authority:** *T.C.A. Section 68-25-105. Administrative History. Original rule certified June 7, 1974. Amended effective February 9, 1977*

|              | <b>Date Submitted<br/>to EPA</b> | <b>Date Approved<br/>by EPA</b> | <b>Final Federal<br/>Register Notice</b> |
|--------------|----------------------------------|---------------------------------|--|
| Original Reg | JAN 27, 1972                     | MAY 31, 1972                    | 37 FR 10840                              |
| 1st Revision | DEC 05, 1984                     | MAR 29, 1985                    | 50 FR 12540                              |

**1200-3-3-.02 SECONDARY AIR QUALITY STANDARDS**

Secondary Ambient air quality standards define levels of air quality believed adequate, with an appropriate margin of safety, to protect the public welfare from any known anticipated adverse effects of the pollutant.

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| 1 <sup>st</sup> Revision |                       | MARCH 29, 1985       | 50 FR 12540                   |

**1200-3-3-.03 TENNESSEE'S AMBIENT AIR QUALITY STANDARDS**

Ambient air quality standards as given in tables I and II are applicable throughout Tennessee.

**TABLE I**

**TENNESSEE AMBIENT AIR QUALITY STANDARDS for Suspended  
Particulates, Sulfur Dioxide, Carbon Monoxide, Ozone,  
Non-Methane Hydrocarbons, Nitrogen Dioxide, and Lead.**

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

ug/m<sup>3</sup> - Micrograms per cubic meter  
 AGM - Annual geometric mean  
 AAM - Annual Arithmetic mean

| contaminants           | Primary Standard Concentration |             |                  | Averaging Interval | Secondary Standard Concentration |             |                  |
|------------------------|--------------------------------|-------------|------------------|--------------------|----------------------------------|-------------|------------------|
|                        | ug/m <sup>3</sup>              | ppm by vol. |                  |                    | ug/m <sup>3</sup>                | ppm by vol. |                  |
| Suspended Particulates | 75                             | --          | AGM              | 24 hr.             | 60                               | --          | AGM <sup>1</sup> |
|                        | 260                            | --          |                  |                    | 150                              | --          |                  |
| Sulfur Dioxide         | 80                             | 0.03        | AAM              | 24 hr.             | 1,300                            | 0.5         | 3 hr.            |
|                        | 365                            | 0.14        |                  |                    |                                  |             |                  |
| Carbon Monoxide        | 10,000                         | 9.0         | 8 hr.            | 1 hr.              | 10,000                           | 9.0         | 8 hr.            |
|                        | 40,000                         | 35.0        |                  |                    | 40,000                           | 35.0        | 1 hr.            |
| Ozone <sup>2</sup>     | 235                            | 0.12        | 1 hr.            |                    | 235                              | 0.12        | 1 hr.            |
| Nitrogen Dioxide       | 100                            | 0.05        | AAM              |                    | 100                              | 0.05        | AAM              |
| Lead                   | 1.5                            | --          | calendar quarter |                    | 1.5                              | --          | calendar quarter |

Note: 1. This value of 60 for an AGM for particulate matter is a guide to be used in addressing implementation plans to achieve the 24 hour standard.

2. The standard is attained when the expected number of days per calendar year with maximum hourly concentration above 0.12 ppm (235 ug/m<sup>3</sup>) is equal to or less than 1 as determined by the Federal Register, Volume 44, No. 28, February 8, 1979, Part V, Appendix H.

**TABLE 2**

**Tennessee Ambient Air Quality Standards for Gaseous Fluorides Expressed as HF**

| Primary Standards |                    |         | Secondary Standards |                    |         |                       |
|-------------------|--------------------|---------|---------------------|--------------------|---------|-----------------------|
| Concentration     | Averaging Interval |         | Concentration       | Averaging Interval |         |                       |
| by vol.           |                    |         | by vol.             | ug/m <sup>3</sup>  | ppb     | ug/m <sup>3</sup> ppb |
| 1.2               | 1.5                | 30 days | 1.2                 | 1.5                | 30 days |                       |
| 1.6               | 2.0                | 7 days  | 1.6                 | 2.0                | 7 days  |                       |
| 2.9               | 3.5                | 24 hr.  | 2.9                 | 3.5                | 24 hr.  |                       |
| 3.7               | 4.5                | 12 hr.  | 3.7                 | 4.5                | 12 hr.  |                       |

- Notes
1. All values are maximum not to be exceeded more than once per year.
  2. Concentrations in micrograms per cubic meter (ug/m<sup>3</sup>) are approximately[sic] only.
  3. All conditions relate to air at standard conditions of 25 °C temperature and 760 millimeters of mercury pressure.
  4. All averaging intervals are consecutive time periods.

**Authority:** *T.C.A. Section 68-25-105. Administrative History. Original rule certified June 7, 1974. Amended effective February 9, 1977. Amended effective December 5, 1984.*

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**1200-3-3-.04 NONDEGRADATION**

These ambient air quality standards shall not be construed, applied or interpreted to allow any significant deterioration of the existing air quality in any portion of the state.

**Authority:** *T.C.A. Section 68-25-105. Administrative History. Original rule certified June 7, 1974. Amended effective February 9, 1977.*

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| 1 <sup>ST</sup> REVISION |                       | MARCH 29, 1985       | 50 FR 12540                   |

**1200-3-3-.05 ACHIEVEMENT**

- (1) The nitrogen dioxide standard in this chapter is to be achieved statewide by July 1, 1975 and maintained thereafter. The total suspended particulate and sulfur dioxide standards, with the exception of those areas identified in Chapter 1200-3-19, are to be achieved by July 1, 1975 and maintained thereafter. For those total suspended particulate and sulfur dioxide areas identified in Chapter 1200-3-19 the primary standards are to be achieved by December 31, 1982 and maintained thereafter. The standard for lead is to be achieved by October 31, 1981 and maintained thereafter. The standards for ozone and carbon monoxide are to be achieved by December 31, 1982 and maintained thereafter except for areas where a five year extension has been granted. The standards in the areas where the extension has been granted are to be achieved by December 31, 1987 and maintained thereafter. For the New Johnsonville nonattainment area for sulfur dioxide, the secondary standard is to be achieved by December 31, 1987 and maintained thereafter.

**Authority:** *T.C.A. Section 68-25-105. Administrative History. Original Rule filed October 2, 1979; certified June 7, 1974. Amended effective February 9, 1977. Amended in its entirety June 21, 1979. Amended in its entirety November 16, 1979. Amended December 13, 1982. Amended August 2, 1983 federally approved April 7, 1993.*

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| 1st Revision | OCT 25, 1979          | JUN 24, 1982         | 47 FR 27268                   |
| 2nd Revision | AUG 02, 1983          | APR 07, 1993         | 58 FR 18011                   |