

# STATE OF CONNECTICUT

## Regulation of Environmental Protection

Section 19-508-24 of the Regulations of Connecticut State Agencies is amended as follows:

### **Section 19-508-24. Connecticut primary and secondary standards**

- (a) Definitions.
  - (1) "Ambient air" means that portion of the atmosphere external to buildings, to which the general public has access.
  - (2) "Reference method" means a method of sampling and analyzing for an air pollutant, as described in Title 40 Code of Federal Regulations Part 50, as from time to time may be amended.
  - (3) "Equivalent method" means any method of sampling and analyzing for an air pollutant that has been designated in accordance with Title 40 Code of Federal Regulations Part 53, as from time to time may be amended.
  - (4) "Acceptable method" means a reference method, an equivalent method, or any other method determined by the Commissioner.
- (b) The concentration of pollutants in the ambient air, as measured by an acceptable method, shall conform with levels specified below as the applicable air quality standards for these substances throughout Connecticut.
- (c) Reference conditions. All measurements of air quality are corrected to a reference temperature of 20° C. and to a reference pressure of 760 millimeters of mercury (1,013.2 millibars or 29.92 inches of mercury).
- (d) Connecticut primary ambient air quality standards for sulfur oxides (sulfur dioxide). The Connecticut primary ambient air quality standards for sulfur oxides, measured as sulfur dioxide, are:
  - (1) 80 micrograms per cubic meter (0.03 ppm) - annual arithmetic mean.
  - (2) 365 micrograms per cubic meter (0.14 ppm) - maximum 24-hour concentration not to be exceeded more than once per year.

- (e) Connecticut secondary ambient air quality standards for sulfur oxides (sulfur dioxide). The Connecticut secondary ambient air quality standard for sulfur oxides, measured as sulfur dioxides, are:
  - (1) 60 micrograms per cubic meter (0.02 ppm) - annual arithmetic mean.
  - (2) 260 micrograms per cubic meter (0.1 ppm) - maximum 24-hour concentration not to be exceeded more than once per year.
  - (3) 1,300 micrograms per cubic meter (0.5 ppm) - maximum 3-hour concentration not to be exceeded more than once per year.
  
- (f) Connecticut primary ambient air quality standards for particulate matter. The Connecticut primary ambient air quality standards for particulate matter are:
  - (1) 75 micrograms per cubic meter - annual geometric mean.
  - (2) 260 micrograms per cubic meter - maximum 24-hour concentration not to be exceeded more than once per year.
  
- (g) Connecticut secondary ambient air quality standards for particulate matter are:
  - (1) 60 micrograms per cubic meter - annual geometric mean.
  - (2) 150 micrograms per cubic meter - maximum 24-hour concentration not to be exceeded more than once per year.
  
- (h) Connecticut primary and secondary ambient air quality standards for carbon monoxide. The Connecticut primary and secondary ambient air quality standards for carbon monoxide are:
  - (1) 10 milligrams per cubic meter (9 ppm) - maximum 8-hour concentration not to be exceeded more than once per year.
  - (2) 40 milligrams per cubic meter (35 ppm) - maximum 1-hour concentration not to be exceeded more than once per year.
  
- (i) Connecticut primary and secondary ambient air quality standards for photochemical oxidants. The Connecticut primary and secondary ambient air quality standard for photochemical oxidants, measured and corrected for interferences due to nitrogen oxides and sulfur dioxide, is: 235 micrograms per cubic meter (0.12 ppm) - maximum 1-hour concentration not to be exceeded more than once per year.

- (j) Connecticut primary and secondary ambient air quality standards for hydrocarbons. The hydrocarbons standard is for use as a guide in achieving oxidant standards. The Connecticut primary and secondary ambient air quality standard for hydrocarbons is: 160 micrograms per cubic meter (0.24 ppm) - maximum 3-hour concentration (6 am to 9 am) not to be exceeded more than once per year.
- (k) Connecticut primary and secondary ambient air quality standard for nitrogen dioxide. The Connecticut primary and secondary ambient air quality standard for nitrogen dioxide is: 100 micrograms per cubic meter (0.05 ppm) - annual arithmetic mean.
- (l) Connecticut primary and secondary ambient air standards for lead. The Connecticut primary and secondary ambient air quality standard for lead and its compounds, measured as elemental lead is: 1.5 micrograms per cubic meter, maximum arithmetic mean averaged over three consecutive calendar months.