

## Chapter NR 431

### CONTROL OF VISIBLE EMISSIONS

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**NR 431.01 Applicability; purpose.** (1) **APPLICABILITY.** This chapter applies to all air contaminant sources and to all owners or operators of an air contaminant source.

(2) **PURPOSE.** This chapter is adopted under ss. 144.31 and 144.38, Stats., to categorize air contaminant sources and to establish visible emission limitations for these sources in order to protect air quality.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86.

**NR 431.02 Definitions.** In addition to the definitions in this section, the definitions contained in chs. NR 400 and 415 apply to the terms used in this chapter.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86.

**NR 431.03 General limitations.** No person shall cause, suffer, allow, or permit emissions into the ambient air from any direct or portable source in excess of one of the following limitations: Where the presence of uncombined water is the only reason for failure to meet the requirements of this chapter, such failure shall not be a violation of this chapter.

**History:** Renum. NR 154.11 (6) (intro.) and am., Register, September, 1986, No. 369, eff. 10-1-86.

**NR 431.04 Emission limitations; on or before April 1, 1972.** All direct and portable sources on which construction or modification was commenced on or before April 1, 1972 shall meet the emission limits of this section.

(1) All direct or portable sources; emissions of shade or density equal to or greater than number 2 of the Ringleman chart or 40% opacity. Exceptions listed in s. NR 431.05 (1) shall apply.

(2) All direct or portable sources located in subregion 1 of the Lake Michigan Intrastate AQCR or in the Southeast Wisconsin Intrastate AQCR shall also meet the requirements of s. NR 431.05

**History:** Renum. NR 154.11 (6) (b) and am., cr. (2), Register, September, 1986, No. 369, eff. 10-1-86.

**NR 431.05 Emission limitations; after April 1, 1972.** All direct and portable sources on which construction or modification is commenced after April 1, 1972 shall meet the emission limits of this section.

(1) Direct or portable sources other than those specified in s. NR 431.06, emissions of shade or density greater than number 1 of the Ringleman chart or 20% opacity with the following exceptions:

(a) When combustion equipment is being cleaned or a new fire started, emissions not to exceed number 4 of the Ringleman chart or 80% opacity

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for 5 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day.

(b) For stated periods of time, as permitted by the department, for such purpose as operating test, use of emergency equipment, or other good cause, provided no hazard or unsafe condition arises.

(c) For direct or portable sources in operation on or before February 1, 1975, where performance test data taken concurrently with Ringleman or opacity readings show the source to be in compliance with the emission limits but not the Ringleman or opacity limits. In this case, Ringleman or opacity limits shall be set at 0.5 Ringleman or 10% opacity above the average read during the stack test.

**History:** Renum. NR 154.11 (6) (a) (intro.) and 1. and am., cr. (2), Register, September, 1986, No. 369, eff. 10-1-86.

(2) In addition, all direct and portable sources located in subregion 1 of the Lake Michigan Intrastate AQCR or in the Southeast Wisconsin Intrastate AQCR on which construction or modification was commenced on or before April 1, 1972 shall, by July 31, 1975 meet the emission limits of this section.

**History:** Renum. NR 154.11 (6) (a) (intro.) and 1. and am., cr. (2), Register, September, 1986, No. 369, eff. 10-1-86.

**NR 431.06 Emission limitations; after February 1, 1975.** Direct or portable sources specified in this section on which construction or modification is commenced after February 1, 1975 shall meet the emission limits of this section.

(1) Asphalt concrete plants (any combination of the following: dryers; systems for screening, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler; systems for mixing asphalt concrete; and the loading, transfer, and storage systems associated with emission control systems): 20% opacity.

(2) Petroleum refineries (fluid catalytic cracking unit catalyst regenerators and fluid catalytic cracking unit incinerator-waste heat boilers): 30% opacity, except for 3 minutes in any one hour.

(3) Secondary lead smelters:

(a) Blast or cupola furnaces and reverberatory furnaces: 20% opacity.

(b) Pot furnaces of more than 550 pounds (250 kilograms) charging capacity: 10% opacity.

(4) Secondary brass and bronze ingot production plants:

(a) Reverberatory furnaces of 2,205 pounds per hour (1,000 kilograms per hour) or greater production capacity: 20% opacity.

(b) Electric furnaces of 2,205 pounds per hour (1,000 kilograms per hour) or greater production capacity and blast or cupola furnaces of 550 pounds per hour (250 kilograms per hour) or greater production capacity: 10% opacity.

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(5) Sewage treatment plants (sewage sludge and grit incinerators):  
20% opacity.

**History:** Renum. NR 154.11 (6) (a) 2. and am. (intro.), Register, September, 1986, No. 369,  
eff. 10-1-86.