

Chapter NR 424

CONTROL OF ORGANIC COMPOUND EMISSIONS FROM  
PROCESS LINES

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**NR 424.01 Applicability; purpose.** (1) **APPLICABILITY.** This chapter applies to all process lines which are direct air contaminant sources and to their owners and operators.

(2) **PURPOSE.** This chapter is adopted under ss. 144.31 and 144.38, Stats., to categorize organic compound emissions from process lines into a separate organic compound air contaminant source category and to establish emission limitations for this category of sources in order to protect air quality.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86; am. Register, February, 1990, No. 410, eff. 3-1-90.

**NR 424.02 Definitions.** In addition to the definitions in this section, the definitions contained in chs. NR 400, 419, 420 and 421 apply to the terms used in this chapter.

(1) "Aerosol can filling facility" means any facility which operates one or more aerosol can filling lines.

(2) "Aerosol can filling line" means any process line which inserts aerosol propellants composed of butanes, isobutanes, propanes, or any other VOC into cans.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86; am. (1) and cr. (2), Register, April, 1988, No. 388, eff. 5-1-88.

**NR 424.03 Process lines emitting organic compounds.** (1) **EXEMPTIONS.** (a) This section applies to all process lines which emit organic compounds, solvents or mixtures, with the following exceptions:

1. Process lines outside the Southeastern Wisconsin Intrastate AQCR on which construction or modification commenced on or before April 1, 1972.

2. Organic compound-water separation systems that process 757 liters (200 gallons) per day or less.

3. Enclosed paint spraying operations from which emissions are never greater than 13.6 kilograms (30 pounds) in any day and never greater than 2.8 kilograms (6.2 pounds) in any hour.

4. All other process lines from which organic compound emissions are never greater than 6.8 kilograms (15 pounds) in any day and never greater than 1.4 kilograms (3.1 pounds) in any hour.

(b) Where process lines are subject to emission limitations listed elsewhere in chs. NR 419 to 423, the requirements of this section shall apply in accord with the provisions of s. NR 425.03 (7) (b).

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(2) **EMISSION LIMITATIONS.** Process lines to which this section applies shall meet the following emission limitations:

(a) Process lines on which construction or modification commenced before August 1, 1979, shall control emissions of photochemically reactive organic compounds by 85%.

(b) Process lines on which construction or modification commenced on or after August 1, 1979, and which are not subject to emission limitations listed elsewhere in chs. NR 419 to 423 shall:

1. Control organic compound emission by at least 85%, or

2. Where 85% control has been demonstrated to be technologically infeasible for a specific process line, control organic compound emissions by use of the latest available control techniques and operating practices demonstrating best current technology, as approved by the department.

(3) **ELECTION.** Surface coating and printing processes subject to the requirements of this section may instead elect, with the approval of the department, to meet the emission limitations of s. NR 422.01 to 422.155, notwithstanding ss. NR 422.03 (1), (2), (3) or (4) and 425.03, provided that:

(a) The process line meets the specific applicability requirements of ss. NR 422.05 to 422.155; and

(b) The owner or operator submits a written request to the department. Written requests under this paragraph shall include, in the case of sources constructed prior to August 1, 1979, a schedule for meeting the requirements of ss. NR 422.01 to 422.155.

*History:* Renum. from NR 154.13 (11), Register, September, 1986, No. 369, eff. 10-1-86; corrections in (1) (b) and (3) (a) made under s. 13.93 (2m) (b) 7, Stats., Register, April, 1988, No. 388; r. (2) (b), renum. (2) (c) to be (2) (b) and am., Register, April, 1989, No. 400, eff. 5-1-89; am. (3), Register, August, 1989, No. 404, eff. 9-1-89; am. (1) (a) (intro.), 3. and 4., (b), (2) (intro.) and (3) (intro.), Register, February, 1990, No. 410, eff. 3-1-90.

**NR 424.04 Aerosol can filling.** (1) **APPLICABILITY.** (a) Effective October 1, 1986, this section applies to any aerosol can filling facility which has maximum theoretical emissions of VOCs greater than or equal to 100 tons per year and which is located in the county of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha.

(b) Effective January 1, 1994, this section applies to any aerosol can filling facility which:

1. Has maximum theoretical emissions of VOCs greater than or equal to 25 tons per year and is located in the county of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha, or

2. Has maximum theoretical emissions of VOCs greater than or equal to 100 tons per year and is located in the county of Door, Kewaunee, Manitowoc, Sheboygan or Walworth.

(2) **EMISSION LIMITATIONS.** The owner or operator of an aerosol can filling facility shall install and operate a through-the-valve filling system on the aerosol can filling line, or install and operate a vapor recovery system or other device approved by the department in order to reduce the amount of VOCs emitted from the aerosol can filling line by at least 52% by weight, as compared to uncontrolled VOC emissions from the

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line. Compliance shall be measured by a flame ionization detector or other device approved by the department. Any approval of an alternative device issued by the department under this subsection shall be submitted to, and will not become effective for federal purposes until approved by, the administrator of the U.S. environmental protection agency or designee as a source-specific revision to the department's state implementation plan for ozone.

(3) COMPLIANCE REQUIREMENTS AND SCHEDULE. (a) This subsection applies only to an aerosol can filling facility which is in existence on January 1, 1994 and which is:

1. Located in the county of Door, Kewaunee, Manitowoc, Sheboygan or Walworth, or

2. Located in the county of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha and which was not subject to this section prior to January 1, 1994.

(b) The owner or operator of any source identified under par. (a) shall:

1. Notify the department's bureau of air management in writing by April 1, 1994. This notification shall provide the name and location of the affected facility and include VOC emission data if necessary to support eligibility under this subsection.

2. Achieve final compliance with the requirements of this section no later than May 31, 1995.

History: Cr. Register, September, 1986, No. 369, eff. 10-1-86; am. (2) and (3) (c) 4., Register, April, 1988, No. 388, eff. 5-1-88; am. (1), Register, February, 1990, No. 410, eff. 3-1-90; renum. (1) to be (1) (a) and am., cr. (1) (b), am. (2), r. and recr. (3), Register, December, 1993, No. 456, eff. 1-1-94.