NR 439.04 Recordkeeping. (1) The owner or operator of an air contaminant source to which chs. NR 400 to 499 apply shall maintain the following records:

(a) Records of all sampling, testing and monitoring conducted or required under chs. NR 400 to 499 or under an air pollution control permit. Records of sampling, testing or monitoring shall include the following:

1. The date, monitoring site and time and duration of sampling, testing, monitoring and measurements.

2. The dates the analyses were performed.

3. The company or entity that performed the analyses.

4. The analytical techniques or methods used, including supporting information such as calibration and maintenance records and all original recording charts for continuous monitoring instrumentation including emissions or equipment monitors.

5. The results of the analyses.

6. The relevant operating conditions that existed at the time of sampling, testing, monitoring or measurement;

(b) Records detailing all malfunctions which cause any applicable emission limitation to be exceeded, including logs to document the implementation of the plan required by s. NR 439.11;

(c) Records detailing all activities specified in any compliance schedule approved by the department under chs. NR 400 to 499; and

(d) Any other records relating to the emission of air contaminants which may be requested in writing by the department.

(2) Copies of all records required under this section shall be retained by the owner or operator for a period of 5 years or for such other period as may be specified by the department.

(3) Any owner or operator of an air contaminant source described under chs. NR 419 to 424 shall maintain records which demonstrate compliance with applicable emission limitations and operating requirements. Any owner or operator claiming to be exempt from an emission limitation or other requirement in chs. NR 419 to 424 shall maintain records adequate to support each exemption claim.

(4) Any owner or operator of a coating or printing line or operation that is exempt from the emission limitations of ss. NR 422.05 to 422.14, 422.15 or 422.155, under s. NR 422.03, or is exempt from the emission limitations of s. NR 422.145 under s. NR 422.03 (4m) (b) or (c), shall collect and record the following information as appropriate to support the exemption:

(a) A unique name or identification number for each coating or ink, as applied;

(b) The VOC content of each coating or ink, as applied, in units of pounds of VOC per gallon, excluding water;

(c) The volume of coating or ink used per day, as applied, in units of gallons, excluding water;

(d) The total VOC emissions from all coating or printing lines or operations meeting the same applicability statement at the facility before the application of capture systems and control devices in units of pounds per day; and

(e) The maximum theoretical emissions of VOCs for all coating or printing lines or operations meeting the same applicability statement at the facility in units of tons per year.

(5) (a) Any owner or operator of a coating or printing line or operation subject to an emission limitation in ss. NR 422.05 to 422.08, 422.09 to 422.12, 422.132, 422.135 or 422.145 to 422.155 shall collect and record the following information for each coating or printing line or operation:

1. A unique name or identification number for each coating or ink, as applied;

2. The VOC content of each coating or ink, as applied, in units of pounds of VOC per gallon, excluding water.

(b) Any owner or operator of a coating line or operation subject to the emission limitations of s. NR 422.085 shall collect and record the following information:

1. A unique name or identification number for each coating, as applied; and

2. The daily average VOC emission rate as calculated using the equation in s. NR 422.085 (4) (b), and all information identified in s. NR 422.085 (4) (b) and (c) necessary to calculate the daily average VOC emission rate.

(c) Any owner or operator of a coating line or operation subject to the emission limitations of s. NR 422.13 shall collect and record the following information:

1. A unique name or identification number for each coating, as applied;

2. The surface area in units of feet squared of coated finished product; and

3. The amount of VOC per area of surface to which coatings are applied in units of pounds of VOC per 1000 ft^2, regardless of the number of coats applied.

(d) Any owner or operator of a printing line or operation subject to the emission limitations of s. NR 422.14 shall collect and record the following information:

1. A unique name or identification number for each ink, as applied; and

2. The VOC content of each ink, as applied, expressed in units necessary to determine compliance.

(e) Any owner or operator of a coating or printing line or operation that is subject to an emission limitation in ss. NR 422.05 to 422.155, and that is achieving compliance with the applicable emission limitation by a method allowed under s. NR 422.04 (2) (b), (c) or (d) shall, in addition to the applicable information required under pars. (a) to (d), collect and record the following information for each day of operation:

1. The allowable emission rate pursuant to ss. NR 422.05 to 422.155 in pounds per gallon of coating, excluding water;

2. The amount of each coating or ink in gallons, delivered to the applicator;

3. The volume fraction of solids in each coating or ink, delivered to the applicator;

4. The density of the VOC used in each coating or ink in pounds per gallon, delivered to the applicator;

5. The total allowable emissions as calculated under s. NR 422.04 (4);

6. The actual emissions for those coatings or inks for which allowable emissions were calculated under s. NR 422.04 (4), when considering the control device;

7. Control device monitoring data;

8. A log of operating time for the capture system, control device, monitoring equipment and the associated coating or printing line or operation; and

9. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

(f) Any owner or operator of a surface coating or printing facility that is subject to one or more emission limitations in ss. NR 422.05 to 422.15, and that is achieving compliance with the applicable emission limitation or limitations by internal offsets as allowed under s. NR 425.05 shall, in addition to the applicable information required under pars. (a) to (d), collect and record the following information for each day of operation for each coating or ink involved in the internal offset:

1. The amount of coating material or ink in gallons, delivered to the applicator;

2. The volume fraction of solids in the coating or ink, delivered to the applicator;

3. The density of the VOC used in the coating or ink in pounds per gallon, delivered to the applicator.

(g) Any owner or operator of a surface coating or printing line that is subject to an emission limitation in ss. NR 422.05 to 422.155, and that is achieving compliance with the applicable emission limitation by in-line averaging as allowed under s. NR 422.04 (1) shall, in addition to the information required under pars. (a) and (d), collect and record the following information for each day of operation for each coating or printing line:

1. When achieving compliance under s. NR 422.04 (1) (a):

a. The name or identification number of each coating applied on each coating line.

b. The volume of each coating applied in gallons, excluding water.

c. The daily volume-weighted average VOC content of all coatings applied on each coating line as defined in s. NR 422.04 (1) (a).

2. When achieving compliance under s. NR 422.04 (1) (b) 1:

a. The name or identification number of each ink applied on each printing line.

b. The volume of each ink applied in gallons.

c. The daily volume-weighted average VOC content of all inks applied on each printing line as defined in s. NR 422.04 (1) (b) 1.

3. When achieving compliance under s. NR 422.04 (1) (b) 2:

a. The name or identification number of each ink applied on each printing line.

b. The volume of each ink applied in gallons, excluding water.

c. The daily volume-weighted average VOC content of all inks applied on each printing line as defined in s. NR 422.04 (1) (b) 2.

History: Renum. from NR 154.06 (3), and am. Register, September, 1986, No. 369, eff. 10-1-86; renum. from NR 439.03 and am. Register, September, 1987, No. 381, eff. 10-1-87; am. (2), cr. (3), Register, February, 1990, No. 410, eff. 3-1-90; am. (1) (a), Register, May, 1992, No. 437, eff. 6-1-92; am. (1) (a) and (2), r. and recr. (3), cr. (4) and (5), Register, December, 1993, No. 456, eff. 1-1-94; am. (4) (intro.) and (5) (a), Register, June, 1994, No. 462, eff. 7-1-94; am. (5) (a) (intro.), Register, August, 1994, No. 464, eff. 9-1-94.

NR 439.05 Access to records; inspections. (1) No person may deny information or access to records relating to emissions or any other records required to be kept to an authorized representative of the department.

(2) No person may deny entry or access at any reasonable time to an authorized representative of the department for the purposes of inspection of facilities, equipment, including monitoring and air pollution control equipment, practices or operations regulated or required by the department, or at any time when an air pollution episode condition exists or is believed imminent. No person may obstruct, hamper or interfere with any inspection. The department, if requested, shall furnish to the owner or operator of the premises a report setting forth all facts found which relate to compliance status.

(3) The department may, for the purpose of determining a source's compliance with applicable requirements, sample or monitor at reasonable times production materials or other substances or operational parameters.

History: Renum. from NR 154.06 (4) and am. Register, September, 1986, No. 369, eff. 10-1-86; renum. from NR 439.04 and am. Register, September, 1987, No. 381, eff. 10-1-87; renum. to be (1), (2) renum. from NR 439.09 and am., Register, May, 1992, No. 437, eff. 6-1-92; am. (1) and (2), cr. (3), Register, December, 1993, No. 456, eff. 1-1-94.

NR 439.055 Methods and procedures for determining compliance using instrumentation of air pollution control equipment and source processes. (1) The department may require the owner or operator of a source to install and operate instrumentation to monitor the operation of the source or of air pollution control equipment. Unless otherwise specified by the department, for the following types of air pollution control equipment, the indicated operational variables shall, at a minimum, be monitored:

(a) Baghouses - pressure drop across the baghouse in inches of water.

(b) Mechanical collectors - pressure drop across the collector in inches of water.

(c) Electrostatic precipitators - primary and secondary voltage in volts, primary and secondary current in amps, and sparking rate in sparks per minute.

(d) Incinerators - temperature in the primary chamber and the afterburner in degrees Fahrenheit or Centigrade.

(e) Wet scrubbers for control of particulates - pressure drop across the scrubber and demister in inches of water and scrubber liquor flow in gallons per minute.

(f) Absorption equipment for control of gases - pressure drop across the absorber and demister in inches of water, and pH of the absorbing fluid, if appropriate.

(g) Adsorption equipment - pressure drop across the adsorber and prefilter in inches of water, and temperature within the adsorber in degrees Fahrenheit or Centigrade.

(2) When the department requires instrumentation to monitor the operation of a source or of air pollution control equipment, the following monitoring and recording frequencies shall, at minimum, be used:

(a) Temperature in the primary chamber and afterburner of an incinerator shall be monitored and recorded every 15 minutes.

(b) The following operational variables shall be measured and recorded once for every 8 hours of source operation or once per day, whichever yields the greater number of measurements:

1. Pressure drop across baghouses, mechanical collectors, wet scrubbers, absorption equipment or adsorption equipment.

2. Current in electrostatic precipitators.

3. Voltage in electrostatic precipitators.

4. The sparking rate from electrostatic precipitators.

5. Flow of liquor in wet scrubbers used for particulate control.

6. pH of absorption scrubbing fluid.

(3) When the department requires instrumentation to monitor the operation of air pollution control equipment, or to monitor source performance, the instrument shall measure operational variables with the following accuracy:

(a) The temperature monitoring device shall have an accuracy of 0.5% of the temperature being measured in degrees Fahrenheit or ± 5°F of the temperature being measured, or the equivalent in degrees Centigrade, whichever is greater.

(b) The pressure drop monitoring device shall be accurate to within 5% of the pressure drop being measured or within ± 1 inch of water column, whichever is greater.

(c) The current, voltage, flow or pH monitoring device shall be accurate to within 5% of the specific variable being measured.

(4) All instruments used for measuring source or air pollution control equipment operational variables shall be calibrated yearly or at a fre-

quency based on good engineering practice as established by operational history, whichever is more frequent.

(5) The department may require, in an operation permit or order, the measurement of a greater number of source or air pollution control operational variables, more frequent monitoring of operational variables, more accurate measurement of operational variables or more frequent calibration of monitoring equipment than those required under subs. (1) to (4) if the department determines that these requirements are necessary to ensure that the source does not exceed an applicable emission limit, or to ensure that the requirements of chs. NR 400 to 499 are met.

(6) For any air pollution control equipment not specifically identified in sub. (1), the department may require, in an operation permit or order, and after consultation with the owner or operator of the facility, monitoring of air pollution control equipment operational variables and the frequency of the monitoring.

History: Renum. from NR 154.06 (6), Register, September, 1986, No. 369, eff. 10-1-86; renum. from NR 439.06 and am. Register, September, 1987, No. 381, eff. 10-1-87; renum. from NR 439.08 and am., Register, May, 1992, No. 437, eff. 6-1-92; r. and recr. Register, December, 1993, No. 456, eff. 1-1-94.

NR 139.06 Methods and procedures for determining compliance with emission limitations (by air contaminant). When tests or a continuous monitoring system are required by the department, the owner or operator of a source shall use the reference methods listed in this section and in ss. NR 439.07 to 439.095 to determine compliance with emission limitations, unless an alternative or equivalent method is approved, or a specific method is required, in writing, by the department. Any alternative, equivalent or other specific method approved or required by the department for an ozone precursor 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. The test methods shall include quality control and quality assurance procedures and the data reporting format which are specified and approved by the department for collection, analysis, processing and reporting of compliance monitoring data. Notwithstanding the compliance determination methods which the owner or operator of a source is authorized to use under this chapter, the department may use any relevant information or appropriate method to determine a source's compliance with applicable emission limitations.

(1) NONFUGITIVE PARTICULATE EMISSIONS. The owner or operator of a source shall use Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 in 40 CFR part 60, Appendix A, incorporated by reference in ch. NR 484, or Method 202 in 40 CFR part 51, Appendix M, incorporated by reference in ch. NR 484, to determine compliance with a nonfugitive particulate emission limitation.

(1m) NONFUGITIVE PM_{10} PARTICULATE EMISSIONS. The owner or operator of a source shall use Method 201 or 201A in 40 CFR part 51, Appendix M, incorporated by reference in ch. NR 484, to determine compliance with a nonfugitive PM_{10} particulate emission limitation.

(2) SULFUR DIOXIDE EMISSIONS. The owner or operator of a source shall use one or more of the following methods to determine compliance with a sulfur dioxide emission limitation: