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**WISCONSIN STATE LEGISLATURE ...  
PUBLIC HEARING - COMMITTEE RECORDS**

**2007-08**

(session year)

**Senate**

(Assembly, Senate or Joint)

**Committee on ... Environment and Natural  
Resources (SC-ENR)**

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- Committee Reports ... **CR**
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**INFORMATION COLLECTED BY COMMITTEE FOR AND AGAINST PROPOSAL**

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- Hearing Records ... **HR** ... **bills and resolutions** (w/Record of Comm. Proceedings)
  - (**ab** = Assembly Bill)                      (**ar** = Assembly Resolution)                      (**ajr** = Assembly Joint Resolution)
  - (**sb** = Senate Bill)                              (**sr** = Senate Resolution)                              (**sjr** = Senate Joint Resolution)
- Miscellaneous ... **Misc**

$C_{\text{VOHAP,avg}}$  is the average concentration of VOHAP for the source test in ppmv as measured by Method 18 in 40 CFR part 60, appendix A, incorporated by reference in s. NR 484.04(16), or the average concentration of TGNMO for the source test in ppmv as hexane as measured by Method 25 in 40 CFR part 60, appendix A, incorporated by reference in s. NR 484.04(19)

$C_{\text{CEM}}$  is the average concentration of total hydrocarbons in ppmv as hexane as measured using the CEMS during the source test

3. For 2 or more exhaust streams from one or more automated conveyor and pallet cooling lines or automated shakeout lines, compute the flow-weighted average concentration of VOHAP emissions for each combination of exhaust streams using Equation 3:

$$C_w = \frac{\sum_{i=1}^n C_i Q_i}{\sum_{i=1}^n Q_i} \quad \text{Equation 3}$$

where:

$C_w$  is the flow-weighted concentration of VOHAP or VOC, ppmv, as hexane

$C_i$  is the concentration of VOHAP or VOC from exhaust stream  $i$ , ppmv, as hexane

$n$  is the number of exhaust streams sampled

$Q_i$  is the volumetric flow rate of effluent gas from exhaust stream  $i$  in dscfm

(f) *Triethylamine emissions.* To determine compliance with the emissions limit or standard in s. NR 463.23(1)(a)11. for a TEA cold box mold or core making line, you shall use the following test methods and procedures:

1. Determine the TEA concentration for each test run according to the test methods in 40 CFR part 60, appendix A, incorporated by reference in s. NR 484.04(13), that are specified in subd. 1.a. to e.

a. Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct.

If you elect to meet the 99% reduction standard, sampling sites shall be located both at the inlet to the control device and at the outlet of the control device prior to any releases to the atmosphere. If you elect to meet the concentration

limit, the sampling site shall be located at the outlet of the control device, or at the outlet of the emissions source if no control device is present, prior to any releases to the atmosphere.

b. Method 2, 2A, 2C, 2D, 2F or 2G to determine the volumetric flow rate of the stack gas.

c. Method 3, 3A or 3B to determine the dry molecular weight of the stack gas.

d. Method 4 to determine the moisture content of the stack gas.

e. Method 18 to determine the TEA concentration. The Method 18 sampling time shall be sufficiently long such that either the TEA concentration in the field sample is at least 5 times the limit of detection for the analytical method or the test results calculated using the laboratory's reported analytical detection limit for the specific field samples are less than 1/5 of the applicable emissions limit. The adsorbent tube approach, as described in Method 18, may be required to achieve the necessary analytical detection limits. The sampling time shall be at least one hour in all cases.

2. Conduct the test as soon as practicable after adding fresh acid solution and the system has reached normal operating conditions.

3. If you use a wet acid scrubber that is subject to the operating limit in s. NR 463.23(1)(b)5.b. for pH level, determine the pH of the scrubber blowdown using one of the following procedures:

a. Measure the pH of the scrubber blowdown with the CPMS required in s. NR 423.26(1)(f)2. during each TEA sampling run in intervals of no more than 15 minutes. Determine and record the 3-hour average.

b. Measure and record the pH level using the probe and meter required in s. NR 423.26(1)(f)2. once each sampling run. Determine and record the average pH level for the 3 runs.

4. If you are subject to the 99% reduction standard, calculate the mass emissions reduction using Equation 4:

$$\% \text{ reduction} = \frac{E_i - E_o}{E_i} \times 100\% \quad \text{Equation 4}$$

where:

$E_i$  is the mass emissions rate of TEA at control device inlet, kg/hr

$E_o$  is the mass emissions rate of TEA at control device outlet, kg/hr

(g) *Combined emission sources.* To determine compliance with the PM or total metal HAP emission limits in s. NR 463.23(1)(a)1. to 6. when one or more regulated emissions sources are combined with either another regulated emissions source subject to a different emissions limit or other non-regulated emissions sources, you may demonstrate compliance using one of the following procedures:

1. You shall meet the most stringent applicable emission limit for the regulated emission sources included in the combined emissions stream for the combined emissions stream.

2. You shall do all of the following:

a. Determine the volumetric flow rate of the individual regulated streams for which emissions limits apply.

b. Calculate the flow-weighted average emissions limit, considering only the regulated streams, using Equation 3 in par. (e)3., except  $C_w$  is the flow-weighted average emissions limit for PM or total metal HAP in the exhaust stream, gr/dscf; and  $C_i$  is the concentration of PM or total metal HAP in exhaust stream  $i$ , gr/dscf.

c. Meet the calculated flow-weighted average emissions limit for the regulated emissions sources included in the combined emissions stream for the combined emissions stream.

3. You shall do all of the following:

a. Determine the PM or total metal HAP concentration of each of the regulated streams prior to the combination with other exhaust streams or control device.

b. Measure the flow rate and PM or total metal HAP concentration of the combined exhaust stream both before and after the control device and calculate the mass removal efficiency of the control device using Equation 4 in par. (f)4., except  $E_i$  is the mass emissions rate of PM or total metal HAP at the control device inlet, lb/hr, and  $E_o$  is the mass emissions rate of PM or total metal HAP at the control device outlet, lb/hr.

c. Meet the applicable emissions limit based on the calculated PM or total metal HAP concentration for the regulated emissions source using Equation 5 of this section:

$$C_{\text{released}} = C_i \times \left( 1 - \frac{\% \text{ reduction}}{100} \right) \quad \text{Equation 5}$$

where:

$C_{\text{released}}$  is the calculated concentration of PM or total metal HAP predicted to be released to the atmosphere from the regulated emission source, in gr/dscf

$C_i$  is the concentration of PM or total metal HAP in the uncontrolled regulated exhaust stream, in gr/dscf

(4) WHAT PROCEDURES MUST I USE TO ESTABLISH OPERATING LIMITS? (a) For each capture system subject to operating limits in s. NR 463.23(1)(b)1.b., you shall establish site-specific operating limits in your operation and maintenance plan according to all of the following procedures:

1. Concurrent with applicable emissions and opacity tests, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements in s. NR 423.26(1)(a).

2. For any dampers that are manually set and remain at the same position at all times the capture system is operating visually check and record the damper position at the beginning and end of each run.

3. Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(b) For each wet scrubber subject to the operating limits in s. NR 463.23(1)(b)2. for pressure drop and scrubber water flow rate, you shall establish site-specific operating limits according to both of the following procedures :

1. Using the CPMS required in s. NR 463.26(1)(c), measure and record the pressure drop and scrubber water flow rate in intervals of no more than 15 minutes during each PM test run.

2. Compute and record the 3-hour average pressure drop and average scrubber water flow rate for each sampling run in which the applicable emissions limit is met.

(c) For each combustion device applied to emissions from a scrap preheater or TEA cold box mold or core making line subject to the operating limit in s. NR 463.23(1)(b)4. for combustion zone temperature, you shall establish a site-specific operating limit according to both of the following procedures:

1. Using the CPMS required in s. NR 463.26(1)(e), measure and record the combustion zone temperature during each sampling run in intervals of no more than 15 minutes.

2. Compute and record the 3-hour average combustion zone temperature for each sampling run in which the applicable emissions limit is met.

(d) For each acid wet scrubber subject to the operating limit in s. NR 463.23(1)(b)5., you shall establish a site-specific operating limit for scrubbing liquid flow rate according to both of the following procedures:

1. Using the CPMS required in s. NR 463.26(1)(f), measure and record the scrubbing liquid flow rate during each TEA sampling run in intervals of no more than 15 minutes.

2. Compute and record the 3-hour average scrubbing liquid flow rate for each sampling run in which the applicable emissions limit is met.

(e) You may change the operating limits for a capture system, wet scrubber, acid wet scrubber or combustion device if you do all of the following:

1. Submit a written notification to the department of your request to conduct a new performance test to revise the operating limit.

2. Conduct a performance test to demonstrate compliance with the applicable emissions limitation in s. NR 463.23(1).

3. Establish revised operating limits according to the applicable procedures in pars. (a) to (d).

(f) You may use a previous performance test conducted since December 22, 2002 to establish an operating limit, provided the test meets the requirements of this subchapter.

**(5) HOW DO I DEMONSTRATE INITIAL COMPLIANCE WITH THE EMISSION LIMITATIONS THAT APPLY TO ME?** (a) You have demonstrated initial compliance with the emissions limits in s. NR 463.23(1)(a) if you do the following, as applicable:

1. For each electric arc metal melting furnace, electric induction metal melting furnace, or scrap preheater at an existing iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(a), did not exceed 0.005 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.0004 gr/dscf.

2. For each cupola metal melting furnace at an existing iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(a), did not exceed 0.006 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.0005 gr/dscf.

3. For each cupola metal melting furnace or electric arc metal melting furnace at a new iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(a), did not exceed 0.002 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.0002 gr/dscf.

4. For each electric induction metal melting furnace or scrap preheater at a new iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(a), did not exceed 0.001 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.00008 gr/dscf.

5. For each pouring station at an existing iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, measured according to the performance test procedures in sub. (3)(a), did not exceed 0.010 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.0008 gr/dscf.

6. For each pouring area or pouring station at a new iron and steel foundry you demonstrate one of the following:

a. The average PM concentration in the exhaust stream, measured according to the performance test procedures in sub. (3)(a), did not exceed 0.002 gr/dscf.

b. The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in sub. (3)(b), did not exceed 0.0002 gr/dscf.

7. For each building or structure housing any emission source at the iron and steel foundry, the opacity of fugitive emissions discharged to the atmosphere, determined according to the performance test procedures in sub. (3)(c), did not exceed 20% averaged over 6-minutes, except for one 6-minute average per hour that did not exceed 27% opacity.

8. For each cupola metal melting furnace at a new or existing iron and steel foundry, the average VOHAP concentration, determined according to the performance test procedures in sub. (3)(d), did not exceed 20 ppmv corrected to 10% oxygen.

9. For each scrap preheater at an existing iron and steel foundry that does not meet the work practice standards in s. NR 463.23(2)(e)1. or 2., and for each scrap preheater at a new iron and steel foundry that does not meet the work practice standard in s. NR 463.23(2)(f), the average VOHAP concentration determined according to the performance test procedures in sub. (3)(d), did not exceed 20 ppmv.

10. For one or more automated conveyor and pallet cooling lines that use a sand mold system or automated shakeout lines that use a sand mold system at a new foundry you demonstrate both of the following:

a. You have reduced the data from the CEMS to 3-hour averages according to the performance test procedures in sub. (3)(e).

b. The 3-hour flow-weighted average VOHAP concentration, measured according to the performance test procedures in sub. (3)(e), did not exceed 20 ppmv.

11. For each TEA cold box mold or core making line in a new or existing iron and steel foundry, the average TEA concentration, determined according to the performance test procedures in sub. (3)(f) did not exceed 1 ppmv or was reduced by 99%.

(b) You have demonstrated initial compliance with the operating limits in s. NR 463.23(1)(b) if you do the following, as applicable:

1. For each capture system subject to the operating limit in s. NR 463.23(1)(b)1.a., you have established appropriate site-specific operating limits in your operation and maintenance plan according to the requirements in s.



NR 463.23(3)(b) and have a record of the operating parameter data measured during the performance test in accordance with sub. (4)(a).

2. For each wet scrubber subject to the operating limits in s. NR 436.23(1)(b)2. for pressure drop and scrubber water flow rate, you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with sub. (4)(b).

3. For each combustion device subject to the operating limit in s. NR 463.23(1)(b)3. for combustion zone temperature, you have a record of the combustion zone temperature measured during the performance test in accordance with sub. (3)(e)4.

4. For each combustion device subject to the operating limit in s. NR 463.23(1)(b)4. for combustion zone temperature, you have established appropriate site-specific operating limits and have a record of the combustion zone temperature measured during the performance test in accordance with sub. (4)(c).

5. For each acid wet scrubber subject to the operating limits in s. NR 463.23(1)(b)5. for scrubbing liquid flow rate and scrubber blowdown pH, you satisfy both of the following:

a. You have established appropriate site-specific operating limits for the scrubbing liquid flow rate and have a record of the scrubbing liquid flow rate measured during the performance test in accordance with sub. (4)(d).

b. You have a record of the pH of the scrubbing liquid blowdown measured during the performance test in accordance with sub. (3)(g)3.

**(6) HOW DO I DEMONSTRATE INITIAL COMPLIANCE WITH THE WORK PRACTICE**

**STANDARDS THAT APPLY TO ME?** (a) For each iron and steel foundry subject to the certification requirement in s. NR 463.23(2)(b), you have demonstrated initial compliance if you have certified in your notification of compliance status that: "At all times, your foundry will purchase and use only metal ingots, pig iron, slitter or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics or free organic liquids."

(b) For each iron and steel foundry subject to the requirements in s. NR 463.23(2)(c) for a scrap inspection and selection plan, you have demonstrated initial compliance if you have certified both of the following in your notification of compliance status:

1. That you have submitted a written plan to the department for approval according to the requirements in s. NR 463.23(2)(c).

2. That you will operate at all times according to the plan requirements.

(c) For each furan warm box mold or core making line in a new or existing foundry subject to the work practice standard in s. NR 463.23(2)(d), you have demonstrated initial compliance if you have certified both of the following in your notification of compliance status:

1. That you will meet the no methanol requirement for the catalyst portion of each binder chemical formulation.

2. That you have records documenting your certification of compliance, such as a material safety data sheet, provided that it contains appropriate information, a certified product data sheet or a manufacturer's hazardous air pollutant data sheet, onsite and available for inspection.

(d) For each scrap preheater at an existing iron and steel foundry subject to the work practice standard in s. NR 463.23(2)(e)1. or 2., you have demonstrated initial compliance if you have certified one of the following in your notification of compliance status:

1. That you have installed a gas-fired preheater where the flame directly contacts the scrap charged, you will operate and maintain each gas-fired scrap preheater so that the flame directly contacts the scrap charged and you have records documenting your certification of compliance that are onsite and available for inspection.

2. That you will charge only material that is subject to and in compliance with the scrap certification requirements in s. NR 463.23(2)(b) and you have records documenting your certification of compliance that are onsite and available for inspection.

(e) For each scrap preheater at a new iron and steel foundry subject to the work practice standard in s. NR 463.23(2)(f), you have demonstrated initial compliance if you have certified in your notification of compliance status that you will charge only material that is subject to and in compliance with the scrap certification requirements in s. NR 463.23(2)(b) and you have records documenting your certification of compliance that are onsite and available for inspection.

**(7) HOW DO I DEMONSTRATE INITIAL COMPLIANCE WITH THE OPERATION AND MAINTENANCE REQUIREMENTS THAT APPLY TO ME? (a) For each capture system subject to an operating limit in s. NR 463.23(1)(b), you have demonstrated initial compliance if you have done both of the following:**

**1. Certified both of the following in your notification of compliance status:**

**a. That you have submitted the capture system operation and maintenance plan to the department for approval according to the requirements of s. NR 463.23(3)(b).**

**b. That you will inspect, operate and maintain each capture system according to the procedures in the plan.**

**2. Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan.**

**(b) For each control device subject to an operating limit in s. NR 463.23(1)(b), you have demonstrated initial compliance if you have certified both of the following in your notification of compliance status:**

**1. That you have submitted the control device operation and maintenance plan to the department for approval according to the requirements of s. NR 463.23(3)(b).**

**2. That you will inspect, operate and maintain each control device according to the procedures in the plan.**

**(c) For each bag leak detection system, you have demonstrated initial compliance if you have certified all of the following in your notification of compliance status:**

**1. That you have submitted the bag leak detection system monitoring plan to the department for approval according to the requirements of s. NR 463.23(3)(b).**

**2. That you will inspect, operate and maintain each bag leak detection system according to the procedures in the plan.**

**3. That you will follow the corrective action procedures for bag leak detection system alarms according to the requirements in the plan.**

**(d) For each pouring area and pouring station in a new or existing foundry, you have demonstrated initial compliance if you have certified both of the following in your notification of compliance status report:**

**1. That you have submitted the mold vent ignition plan to the department for approval according to the requirements in s. NR 463.23(3)(b).**

2. That you will follow the procedures for igniting mold vent gases according to the requirements in the plan.

**NR 463.26 Continuous compliance requirements. (1) WHAT ARE MY MONITORING REQUIREMENTS?** (a) For each capture system subject to an operating limit in s. NR 463.23(1)(b)1., you shall install, operate and maintain a CPMS according to the requirements in sub. (2)(a) and both of the following requirements, as applicable:

1. If you use a flow measurement device to monitor the operating limit parameter, you shall at all times monitor the hourly average rate.

**Note:** For example, the hourly average actual volumetric flow rate through each separately ducted hood or the average hourly total volumetric flow rate at the inlet to the control device.

2. For dampers that are not manually set and remain in the same position, you shall make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test. Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS.

(b) For each negative pressure baghouse or positive pressure baghouse equipped with a stack that is applied to meet any PM or total metal HAP emissions limitation in this subchapter, you shall at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in sub. (2)(b) and do all of the following:

1. Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

2. Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

3. Check the compressed air supply for pulse-jet baghouses each day.

4. Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

5. Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

6. Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked, kneed or bent, or lying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning, spring-loaded, devices.

7. Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

8. Inspect fans for wear, material buildup and corrosion through quarterly visual inspections, vibration detectors or equivalent means.

(c) For each wet scrubber subject to the operating limits in s. NR 463.23(1)(b)2., you shall at all times monitor the 3-hour average pressure drop and scrubber water flow rate using CPMS according to the requirements in sub. (2)(c).

(d) For each combustion device subject to the operating limit in s. NR 463.23(1)(b)3., you shall at all times monitor the 15-minute average combustion zone temperature using a CPMS according to the requirements of sub. (2)(d).

(e) For each combustion device subject to the operating limit in s. NR 463.23(1)(b)4., you shall at all times monitor the 3-hour average combustion zone temperature using CPMS according to the requirements in sub. (2)(d).

(f) For each wet acid scrubber subject to the operating limits in s. NR 463.23(1)(b)5., you shall do both of the following at all times:

1. Monitor the 3-hour average scrubbing liquid flow rate using CPMS according to the requirements of sub. (2)(e)1.

2. Monitor the 3-hour average pH of the scrubber blowdown using CPMS according to the requirements in sub. (2)(e)2., or measure and record the pH of the scrubber blowdown once per production cycle using a pH probe and meter according to the requirements in sub. (2)(e)3.

(g) For one or more automated conveyor and pallet cooling lines and automated shakeout lines at a new iron and steel foundry subject to the VOHAP emissions limit in s. NR 463.23(1)(a)10., you shall at all times monitor the 3-hour average VOHAP concentration using a CEMS according to the requirements of sub. (2)(g).

(2) WHAT ARE THE INSTALLATION, OPERATION AND MAINTENANCE REQUIREMENTS FOR MY MONITORS? (a) For each capture system subject to an operating limit in s. NR 463.23(1)(b)1., you shall install, operate and maintain each CPMS according to the following requirements, as applicable:

1. If you use a flow measurement device to monitor an operating limit parameter for a capture system, you shall do all of the following:

a. Locate the flow sensor and other necessary equipment, such as straightening vanes, in a position that provides a representative flow and that reduces swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

b. Use a flow sensor with a minimum measurement sensitivity of 2% of the flow rate.

c. Conduct a flow sensor calibration check at least semiannually.

d. At least monthly, inspect all components for integrity, all electrical connections for continuity and all mechanical connections for leakage.

e. Record the results of each inspection, calibration and validation check required under this subdivision.

2. If you use a pressure measurement device to monitor the operating limit parameter for a capture system, you shall do all of the following:

a. Locate the pressure sensors in, or as close as possible, to a position that provides a representative measurement of the pressure and that minimizes or eliminates pulsating pressure, vibration, and internal and external corrosion.

b. Use a gauge with a minimum measurement sensitivity of 0.5 inch of water or a transducer with a minimum measurement sensitivity of one percent of the pressure range.

c. Check the pressure tap for blockage or plugging daily.

d. Using a manometer, check gauge calibration quarterly and transducer calibration monthly.

e. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

f. At least monthly, inspect all components for integrity, all electrical connections for continuity and all mechanical connections for leakage.

g. Record the results of each inspection, calibration and validation check required under this subdivision.

(b) You shall install, operate and maintain a bag leak detection system according to all of the following requirements:

1. The system shall be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

2. The bag leak detection system sensor shall provide output of relative particulate matter loadings, and the owner or operator shall continuously record the output from the bag leak detection system using electronic or other means such as a strip chart recorder or a data logger.

3. The system shall be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan. The alarm shall be located such that it can be heard by the appropriate plant personnel.

4. The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity or range and the averaging period of the device and establishing the alarm set points and the alarm delay time, if applicable.

5. Following the initial adjustment, the sensitivity or range, averaging period, alarm set point or alarm delay time may not be adjusted without approval from the department. Except, once per quarter, you may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures in the operation and maintenance plan required by s. NR 463.23(3)(b).

6. For negative pressure induced air baghouses and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector sensor shall be installed downstream of the baghouse and upstream of any wet scrubber.

7. Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(c) For each wet scrubber subject to the operating limits in s. NR 463.23(1)(b)2., you shall install and maintain CPMS to measure and record the pressure drop and scrubber water flow rate according to the requirements in subs. 1. and 2.:

1. For each CPMS for pressure drop, you shall do all of the following:

- a. Locate the pressure sensor in, or as close as possible to, a position that provides a representative measurement of the pressure drop and that minimizes or eliminates pulsating pressure, vibration and internal and external corrosion.
- b. Use a gauge with a minimum measurement sensitivity of 0.5 inch of water or a transducer with a minimum measurement sensitivity of one percent of the pressure range.
- c. Check the pressure tap for blockage or plugging daily.
- d. Using a manometer, check gauge calibration quarterly and transducer calibration monthly.
- e. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.
- f. At least monthly, inspect all components for integrity, all electrical connections for continuity and all mechanical connections for leakage.

2. For each CPMS for scrubber liquid flow rate, you shall do all of the following:

- a. Locate the flow sensor and other necessary equipment in a position that provides a representative flow and that reduces swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
- b. Use a flow sensor with a minimum measurement sensitivity of 2% of the flow rate.
- c. Conduct a flow sensor calibration check at least semiannually according to the manufacturer's instructions.
- d. At least monthly, inspect all components for integrity, all electrical connections for continuity and all mechanical connections for leakage.

(d) For each combustion device subject to the operating limit in s. NR 463.23(1)(b)3. or 4., you shall install and maintain a CPMS to measure and record the combustion zone temperature according to the following requirements, as applicable:

1. Locate the temperature sensor in a position that provides a representative temperature.
2. For a non-cryogenic temperature range, use a temperature sensor with a minimum tolerance of 2.2°C or 0.75% of the temperature value, whichever is larger.



3. For a cryogenic temperature range, use a temperature sensor with a minimum tolerance of 2.2°C or 2% of the temperature value, whichever is larger.

4. Shield the temperature sensor system from electromagnetic interference and chemical contaminants.

5. If you use a chart recorder, it shall have a sensitivity in the minor division of at least 20°F.

6. Perform an electronic calibration at least semiannually according to the procedures in the manufacturer's owners manual. Following the electronic calibration, conduct a temperature sensor validation check, in which a second or redundant temperature sensor placed nearby the process temperature sensor shall yield a reading within 16.7°C of the process temperature sensor's reading.

7. Conduct calibration and validation checks any time the sensor indicates a temperature that exceeds the manufacturer's specified maximum operating temperature range, or install a new temperature sensor.

8. At least monthly, inspect all components for integrity and all electrical connections for continuity, oxidation and galvanic corrosion.

(e) For each wet acid scrubber subject to the operating limits in s. NR 463.23(1)(b)5., you shall install and maintain CPMS to measure and record the scrubbing liquid flow rate according to the requirements in par. (c)2. and do either of the following:

1. Install and maintain CPMS to measure and record the pH of the scrubber blowdown according to all of the following requirements:

a. Locate the pH sensor in a position that provides a representative measurement of the pH and that minimizes or eliminates internal and external corrosion.

b. Use a gauge with a minimum measurement sensitivity of 0.1 pH unit or a transducer with a minimum measurement sensitivity of 5% of the pH range.

c. Check gauge calibration quarterly or transducer calibration monthly using a manual pH gauge.

d. At least monthly, inspect all components for integrity, all electrical connections for continuity and all mechanical connections for leakage.

2. Extract a sample for analysis by a pH meter that has all of the following:

a. A range of at least 1 to 5 pH units or more.

b. An accuracy of 0.1 pH unit.

c. A resolution of at least 0.1 pH unit.

(f) You shall operate each CPMS used to meet the requirements of this subchapter according to all of the following requirements:

1. Each CPMS shall complete a minimum of one cycle of operation for each successive 15-minute period.

You shall have a minimum of 3 of the required 4 data points to constitute a valid hour of data.

2. Each CPMS shall have valid hourly data for 100% of every averaging period.

3. Each CPMS shall calculate and record the hourly average of all recorded readings and the 3-hour average of all recorded readings.

(g) For each automated conveyor and pallet cooling line and automated shakeout line at a new iron and steel foundry subject to the VOHAP emission limit in s. NR 463.23(1)(a)10., you shall install, operate and maintain a CEMS to measure and record the concentration of VOHAP emissions according to all of the following requirements:

1. You shall install, operate and maintain each CEMS according to performance specification 8 in 40 CFR part 60, appendix B, incorporated by reference in s. NR 484.04(21).

2. You shall conduct a performance evaluation of each CEMS according to the requirements of s. NR 460.07 and performance specification 8 in 40 CFR part 60, appendix B.

3. As specified in s. NR 460.07(3)(d)2., each CEMS shall complete a minimum of one cycle of operation, which includes sampling, analyzing and data recording, for each successive 15-minute period.

4. You shall reduce CEMS data as specified in s. NR 460.07(7)(b).

5. Each CEMS shall calculate and record the 3-hour average emissions using all the hourly averages collected for periods during which the CEMS is not out-of-control.

6. You shall record the results of each inspection, calibration and validation check required under this paragraph.

(3) HOW DO I MONITOR AND COLLECT DATA TO DEMONSTRATE CONTINUOUS COMPLIANCE? (a) Except for monitoring malfunctions, associated repairs and required quality assurance or

control activities, including, as applicable, calibration checks and required zero and span adjustments, you shall monitor continuously or collect data at all required intervals any time a source of emissions is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs and required quality assurance or control activities in data averages and calculations used to report emissions or operating levels or to fulfill a minimum data availability requirement, if applicable. You shall use all the data collected during all other periods in assessing compliance.

(4) HOW DO I DEMONSTRATE CONTINUOUS COMPLIANCE WITH THE EMISSION LIMITATIONS THAT APPLY TO ME? (a) You shall demonstrate continuous compliance by meeting the following requirements, as applicable:

1. For each electric arc metal melting furnace, electric induction metal melting furnace or scrap preheater at an existing iron and steel foundry, you shall do one of the following:

- a. Maintain the average PM concentration in the exhaust stream at or below 0.005 gr/dscf.
- b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.0004 gr/dscf.

2. For each cupola metal melting furnace at an existing iron and steel foundry, you shall do one of the following:

- a. Maintain the average PM concentration in the exhaust stream at or below 0.006 gr/dscf.
- b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.0005 gr/dscf.

3. For each cupola metal melting furnace or electric arc metal melting furnace at new iron and steel foundry, you shall do one of the following:

- a. Maintain the average PM concentration in the exhaust stream at or below 0.002 gr/dscf.
- b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.0002 gr/dscf.

4. For each electric induction metal melting furnace or scrap preheater at a new iron and steel foundry, you shall do one of the following:

- a. Maintain the average PM concentration in the exhaust stream at or below 0.001 gr/dscf.
- b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.00008 gr/dscf.

5. For each pouring station at an existing iron and steel foundry, you shall do one of the following:

- a. Maintain the average PM concentration in the exhaust stream at or below 0.010 gr/dscf.
  - b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.0008 gr/dscf.
6. For each pouring area or pouring station at a new iron and steel foundry, you shall do one of the following:
- a. Maintain the average PM concentration in the exhaust stream at or below 0.002 gr/dscf.
  - b. Maintain the average total metal HAP concentration in the exhaust stream at or below 0.0002 gr/dscf.
7. For each building or structure housing any emission source at the iron and steel foundry, you shall maintain the opacity of any fugitive emissions discharged to the atmosphere at or below 20% opacity (6-minute average), except for one 6-minute average per hour that does not exceed 27% opacity.
8. For each cupola metal melting furnace at a new or existing iron and steel foundry, you shall maintain the average VOHAP concentration in the exhaust stream at or below 20 ppmv corrected to 10% oxygen.
9. For each scrap preheater at an existing iron and steel foundry that does not comply with the work practice standard in s. NR 463.23(2)(e)1. or 2. and for each scrap preheater at a new iron and steel foundry that does not comply with the work practice standard in s. NR 463.23(2)(f), you shall maintain the average VOHAP concentration in the exhaust stream at or below 20 ppmv.
10. For one or more automated conveyor and pallet cooling lines or automated shakeout lines that use a sand mold system at a new iron and steel foundry, you shall do all of the following:
- a. Maintain the 3-hour flow-weighted average VOHAP concentration in the exhaust stream at or below 20 ppmv.
  - b. Inspect and maintain each CEMS according to the requirements of sub. (2)(g) and record all information needed to document conformance with these requirements.
  - c. Collect and reduce monitoring data according to the requirements of sub. (2)(g) and record all information needed to document conformance with these requirements.
11. For each TEA cold box mold or core making line at a new or existing iron and steel foundry, you shall maintain a 99% reduction in the VOHAP concentration in the exhaust stream or maintain the average VOHAP concentration in the exhaust stream at or below 1 ppmv.

12. You shall conduct subsequent performance tests at least every 5 years for each emission source subject to an emission limit for PM, total metal HAP, VOHAP or TEA in s. NR 463.23(1)(a) and subsequent performance tests at least every 6 months for each building or structure subject to the opacity limit in s. NR 463.23(1)(a)7.

(b) You shall demonstrate continuous compliance for each capture system subject to an operating limit in s. NR 463.23(1)(b)1. by doing both of the following:

1. Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan.

2. Monitor the capture system according to the requirements in sub. (1)(a) and collect, reduce and record the monitoring data for each of the operating limit parameters according to the applicable requirements in this subchapter.

(c) You shall demonstrate continuous compliance for each baghouse equipped with a bag leak detection system doing both of the following:

1. Maintain records of the times the bag leak detection system alarm sounded, and for each valid alarm, the time you initiated corrective action, the corrective action taken and the date on which corrective action was completed.

2. Inspect and maintain each baghouse according to the requirements of sub. (1)(b)1. to 8., and record all information needed to document conformance with these requirements.

(d) You shall demonstrate continuous compliance for each wet scrubber that is subject to the operating limits in s. NR 463.23(1)(b)2., by doing all of the following:

1. Maintaining the 3-hour average pressure drop and 3-hour average scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test.

2. Inspecting and maintaining each CPMS according to the requirements of sub. (2)(c) and recording all information needed to document conformance with the requirements.

3. Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to the requirements of sub. (2)(f) and recording all information needed to document conformance with the requirements.

(e) You shall demonstrate continuous compliance for each combustion device that is subject to the operating limit in s. NR 463.23(1)(b)3., by doing all of the following:

1. Maintaining the 15-minute average combustion zone temperature at a level no lower than 1,300°F.
2. Inspecting and maintaining each CPMS according to the requirements of sub. (2)(d) and recording all information needed to document conformance with the requirements.
3. Collecting and reducing monitoring data for combustion zone temperature according to the requirements of sub. (2)(f) and recording all information needed to document conformance with the requirements.

(f) You shall demonstrate continuous compliance for each combustion device that is subject to the operating limit in s. NR 463.23(1)(b)4., by doing all of the following:

1. Maintaining the 3-hour average combustion zone temperature at a level no lower than that established during the initial or subsequent performance test.
2. Inspecting and maintaining each CPMS according to the requirements of sub. (2)(d) and recording all information needed to document conformance with these requirements.
3. Collecting and reducing monitoring data for combustion zone temperature according to the requirements of sub. (2)(f) and recording all information needed to document conformance with these requirements.

(g) You shall demonstrate continuous compliance for each acid wet scrubber subject to the operating limits in s. NR 463.23(1)(b)5., by doing all of the following:

1. Maintaining the 3-hour average scrubbing liquid flow rate at a level no lower than the level established during the initial or subsequent performance test.
2. Maintaining the 3-hour average pH of the scrubber blowdown at a level no higher than 4.5, if measured by a CPMS, or maintaining the pH level of the scrubber blowdown during each production shift no higher than 4.5.
3. Inspecting and maintaining each CPMS according to the requirements of sub. (2)(e) and recording all information needed to document conformance with the requirements.
4. Collecting and reducing monitoring data for scrubbing liquid flow rate and scrubber blowdown pH according to the requirements of sub. (2)(f) and recording all information needed to document conformance with the requirements. If the pH level of the scrubber blowdown is measured by a probe and meter, you shall demonstrate

continuous compliance by maintaining records that document the date, time and results of each sample taken for each production shift.

**(5) HOW DO I DEMONSTRATE CONTINUOUS COMPLIANCE WITH THE WORK PRACTICE STANDARDS THAT APPLY TO ME?** (a) You shall maintain records that document continuous compliance with the certification requirements in s. NR 463.23(2)(b) or with the procedures in your scrap selection and inspection plan required in s. NR 463.23(2)(c). Your records documenting compliance with the scrap selection and inspection plan shall include a copy kept onsite of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.

(b) You shall keep records of the chemical composition of all catalyst binder formulations applied in each furan warm box mold or core making line at a new or existing iron and steel foundry to demonstrate continuous compliance with the requirements in s. NR 463.23(2)(d).

(c) For a scrap preheater at an existing iron and steel foundry, you shall operate and maintain each gas-fired preheater so that the flame directly contacts the scrap charged to demonstrate continuous compliance with the requirement s. NR 463.23(2)(e)1. If you choose to meet the work practice standard in s. NR 463.23(2)(e)2., you shall keep records to document that the scrap preheater charges only material that is subject to and in compliance with the scrap certification requirements in s. NR 463.23(2)(b).

(d) For a scrap preheater at a new iron and steel foundry, you shall keep records to document that each scrap preheater charges only material that is subject to and in compliance with the scrap certification requirements in s. NR 463.23(2)(b) to demonstrate continuous compliance with the requirement in s. NR 463.23(2)(f).

**(6) HOW DO I DEMONSTRATE CONTINUOUS COMPLIANCE WITH THE OPERATION AND MAINTENANCE REQUIREMENTS THAT APPLY TO ME?** (a) For each capture system and control device for an emission source subject to an emission limit in s. NR 463.23(1)(a), you shall demonstrate continuous compliance with the operation and maintenance requirements of s. NR 463.23(3) by doing all of the following:

1. Making monthly inspections of capture systems and initiating corrective action according to s. NR 463.23(3)(b)1., and recording all information needed to document conformance with the requirements.

2. Performing preventive maintenance for each control device according to the preventive maintenance plan required by s. NR 463.23(3)(b)3., and recording all information needed to document conformance with the requirements.

3. Operating and maintaining each bag leak detection system according to the site-specific monitoring plan required by s. NR 463.23(3)(b)4., and recording all information needed to demonstrate conformance with the requirements.

4. Initiating and completing corrective action for a bag leak detection system alarm according to the corrective action plan required by s. NR 463.23(3)(b)5., and recording all information needed to document conformance with the requirements.

5. Igniting gases from mold vents according to the procedures in the plan required by s. NR 463.23(3)(b)6.

(b) Any instance where you fail to follow the procedures in par. (a) is a deviation that shall be included in your semiannual compliance report.

(c) You shall maintain a current copy of the operation and maintenance plans required by s. NR 463.23(3)(b) onsite and available for inspection upon request. You shall keep the plans for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of this subchapter.

(7) WHAT OTHER REQUIREMENTS MUST I MEET TO DEMONSTRATE CONTINUOUS COMPLIANCE? (a) *Deviations*. You shall report each instance in which you did not meet each emission limitation in s. NR 463.23(1), including each operating limit, that applies to you. This requirement includes periods of startup, shutdown and malfunction. You also shall report each instance in which you did not meet each work practice standard in s. NR 463.23(2) and each operation and maintenance requirement of s. NR 463.23(3) that applies to you. Failure to meet the requirements described in this paragraph are deviations from the emission limitations, work practice standards and operation and maintenance requirements in this subchapter and shall be reported according to the requirements of s. NR 463.27(2).

(b) *Startups, shutdowns and malfunctions*. 1. Consistent with the requirements of ss. NR 460.05(4) and 460.06(4)(a), deviations that occur during a period of startup, shutdown or malfunction are not violations if you demonstrate to the department's satisfaction that you were operating in accordance with s. NR 460.05(4)(a).



2. The department shall determine whether deviations that occur during a period of startup, shutdown or malfunction are violations according to the provisions in s. NR 460.05(4).

**(8) HOW DO I APPLY FOR ALTERNATIVE MONITORING REQUIREMENTS FOR A CONTINUOUS EMISSIONS MONITORING SYSTEM?** (a) You may submit a request to the administrator for an alternative monitoring method to demonstrate compliance with the VOHAP emission limits in s. NR 463.23(1)(a)10. for automated pallet cooling lines or automated shakeout lines at a new iron and steel foundry according to the procedures in this section.

(b) You may request approval to use an alternative monitoring method in the notification of construction or for new sources, or at any time.

(c) You shall submit a monitoring plan to the administrator that includes a description of the control technique or pollution prevention technique, a description of the continuous monitoring system or method, including appropriate operating parameters that will be monitored, test results demonstrating compliance with the emission limit, operating limits, if applicable, determined according to the test results, and the frequency of measuring and recording to establish continuous compliance. If applicable, you shall also include operation and maintenance requirements for the monitors.

(d) The monitoring plan is subject to approval by the administrator. Use of the alternative monitoring method may not begin until approval is granted by the administrator.

**Note:** The Administrator of the US Environmental Protection Agency retains the authority to approve major alternatives to monitoring according to 40 CFR 63.7761(c)(3).

**NR 463.27 Notifications, reports and records. (1) WHAT NOTIFICATIONS MUST I SUBMIT AND WHEN?** (a) You shall submit all of the notifications to the department required by ss. NR 460.05(6)(c) and (d), 460.06(2), 460.07(5)(b) and (6)(c) and (e), and 460.08(2) to (8) that apply to you by the following specified dates:

(b) As specified in s. NR 460.08(2)(b), if you start up your iron and steel foundry before April 22, 2004, you shall submit your initial notification no later than August 20, 2004.

(c) If you start up your new iron and steel foundry on or after April 22, 2004, you shall submit your initial notification no later than 120 calendar days after you become subject to this subchapter.

(d) If you are required to conduct a performance test, you shall submit a notification of intent to conduct a performance test at least 20 business days before the performance test is scheduled to begin, as required by s. NR 460.06(2).

(e) If you are required to conduct a performance test or other initial compliance demonstration, you shall submit a notification of compliance status according to the requirements of s. NR 460.08(8) and either of the following, as applicable:

1. For each initial compliance demonstration that does not include a performance test, you shall submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

2. For each initial compliance demonstration that does include a performance test, you shall submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to the requirement specified in s. NR 460.09(4)(b).

(2) **WHAT REPORTS MUST I SUBMIT AND WHEN?** (a) *Compliance report due dates.* Unless the department has approved a different schedule, you shall submit a semiannual compliance report to the department according to the following requirements:

1. The first compliance report shall cover the period beginning on the compliance date that is specified for your iron and steel foundry in s. NR 463.21(4) and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your iron and steel foundry.

2. The first compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

3. Each subsequent compliance report shall cover the semiannual reporting period from January 1 to June 30 or the semiannual reporting period from July 1 to December 31.

4. Each subsequent compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

5. For each iron and steel foundry that is subject to permitting regulations pursuant to ch. NR 407, and if the department has established dates for submitting semiannual reports pursuant to s. NR 407.09(1)(c)3.a., you may submit the first and subsequent compliance reports according to the dates the department has established instead of the dates specified in subds. 1. to 4.

(b) *Compliance report contents.* Each compliance report shall include the information specified in subds. 1. to 3. and, as applicable, subds. 4. to 8.

1. The company name and address.

2. A statement by a responsible official, with that official's name, title and signature, certifying the truth, accuracy and completeness of the content of the report.

3. The date of the report and the beginning and ending dates of the reporting period.

4. If you had a startup, shutdown or malfunction during the reporting period and you took action consistent with your startup, shutdown and malfunction plan, the information in s. NR 460.09(4)(e)1.

5. If there were no deviations from any emission limitation, operating limit, work practice standard or operation and maintenance requirement, a statement that there were no deviations from any emission limitation, work practice standard or operation and maintenance requirement during the reporting period.

6. If there were no periods during which a continuous monitoring system, including a CPMS or CEMS, was out-of-control as specified by s. NR 460.07(3)(g), a statement that there were no periods during which the CPMS or CEMS was out-of-control during the reporting period.

7. For each deviation from an emission limitation, including an operating limit, that occurs at an iron and steel foundry for which you are not using a continuous monitoring system, including a CPMS or CEMS, to comply with an emission limitation or work practice standard required in this subchapter, the information specified in subds. 1. to 4. and in this subdivision. This requirement applies to periods of startup, shutdown and malfunction.

a. The total operating time of each emissions source during the reporting period.

b. Information on the number, duration and cause of deviations, including unknown cause, as applicable, and the corrective action taken.

8. For each deviation from an emission limitation, including an operating limit, or work practice standard occurring at an iron and steel foundry where you are using a continuous monitoring system, including a CPMS or CEMS, to comply with the emission limitation or work practice standard in this subchapter, the information specified in subs. 1. to 4. and in this subdivision. This requirement applies to periods of startup, shutdown and malfunction.

a. The date and time that each malfunction started and stopped.

b. The date and time that each continuous monitoring system was inoperative, except for zero, low-level and high-level checks.

c. The date, time and duration that each continuous monitoring system was out-of-control, including the information required in s. NR 460.07(3)(h).

d. The date and time that each deviation started and stopped and whether each deviation occurred during a period of startup, shutdown or malfunction or during another period.

e. A summary of the total duration of the deviations during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

f. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes and unknown causes.

g. A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

h. A brief description of the process units.

i. A brief description of the continuous monitoring system.

j. The date of the latest continuous monitoring system certification or audit.

k. A description of any changes in continuous monitoring systems, processes or controls since the last reporting period.

(c) *Immediate startup, shutdown and malfunction report.* If you had a startup, shutdown or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown and malfunction plan,

you shall submit an immediate startup, shutdown and malfunction report according to the requirements of s. NR 460.09(4)(e)2.

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an iron and steel foundry pursuant to ch. NR 407, you shall report all deviations as defined in this subchapter in the semiannual monitoring report required by s. NR 407.09(1)(c)3.a. If you submit a compliance report for an iron and steel foundry along with, or as part of, the semiannual monitoring report required by s. NR 407.09(1)(c)3.a., and the compliance report includes all the required information concerning deviations from any emissions limitation or operation and maintenance requirement in this subchapter, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an iron and steel foundry to the department.

(3) **WHAT RECORDS MUST I KEEP?** (a) You shall keep all of the following records:

1. A copy of each notification and report that you submitted to comply with this subchapter, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements of s. NR 460.09(2)(b)14.

2. The records specified in s. NR 460.05(4)(c)3. to 5. related to startup, shutdown and malfunction.

3. Records of performance tests and performance evaluations as required by s. NR 460.09(2)(b)8.

4. Records of the annual quantity of each chemical binder or coating material used to make molds and cores, the material data safety sheet or other documentation that provides the chemical composition of each component and the annual quantity of HAP used at the foundry.

(b) You shall keep all of the following records for each CEMS:

1. Records described in s. NR 460.09(2)(b)6. to 11.

2. If the performance evaluation plan is revised, previous versions of the performance evaluation plan as required in s. NR 460.07(4)(c).

3. Any request for alternatives to relative accuracy tests for CEMS, as allowed by s. NR 460.07(6)(e).

4. Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown or malfunction or during another period.

(c) You shall keep the records required by s. NR 463.26(4) to (6) to show continuous compliance with each emission limitation, work practice standard and operation and maintenance requirement that applies to you.

(4) IN WHAT FORM AND FOR HOW LONG MUST I KEEP MY RECORDS? (a) You shall keep your records in a form suitable and readily available for expeditious review, according to the requirements of s. NR 460.09(2)(a).

(b) As specified in s. NR 460.09(2)(a), you shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record.

(c) You shall keep each record onsite for at least 2 years immediately after the date of each occurrence, measurement, maintenance, corrective action, report or record according to the requirements in s. NR 460.09(2)(a). You may keep the records for the previous 3 years offsite.

SECTION 3. NR 484.06(4)(c) and (e) are amended to read:

**Table 4D  
U.S. Environmental Protection Agency Document Reference**

Document Number	Title	Incorporated by Reference For
NR 484.06 (4)(c) EPA-454/R-98-015, September 1997	Fabric Filter Bag Leak Detection Guidance	NR 462.05(6)(i) <u>NR 463.23(3)(b)4.</u>
(e) EPA, SW-846	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, September 1986, as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), IIIA (April 1998) and IIIB (November 2004)	NR 462 Table 6 <u>NR 463.22(16)</u>

SECTION 4. EFFECTIVE DATE. This rule shall take effect on the first day of the month following publication in the Wisconsin administrative register as provided in s. 227.22 (2) (intro.), Stats.

SECTION 5. BOARD ADOPTION. This rule was approved and adopted by the State of Wisconsin Natural Resources Board on \_\_\_\_\_.

Dated at Madison, Wisconsin \_\_\_\_\_.

**STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES**

By \_\_\_\_\_  
Scott Hassett, Secretary

(SEAL)