

# ARTICLE 6.8. PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

## Rule 1. General Provisions

### 326 IAC 6.8-1-1 Applicability

Authority: IC 13-14-8; IC 13-17

Affected: IC 13-15

Sec. 1. (a) Except as provided in subsections (b) and (c), sources or facilities located in Lake County shall comply with the following emission limits and meet the requirements in 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-11:

(1) 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-11 if the source or facility is specifically listed in 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-11.

(2) Section 2 of this rule if the source or facility is not specifically listed but has:

(A) the potential to emit one hundred (100) tons or more; or

(B) actual emissions of ten (10) tons or more;

of particulate matter per year.

(b) Particulate limitations shall not be established for surface coating, reinforced plastic composites fabricating manufacturing processes, and graphic arts manufacturing processes that use the following:

(1) Dip coating.

(2) Roll coating.

(3) Flow coating.

(4) Brush coating.

(5) Less than five (5) gallons of coating per day.

(c) If the limitations in this article conflict with or are inconsistent with limitations established in 326 IAC 12, then the more stringent limitations shall apply. (*Air Pollution Control Division; 326 IAC 6.8-1-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3503; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Mar 21, 2012, 11:27 a.m.: 20120418-IR-326070438FRA*)

### 326 IAC 6.8-1-1.5 Definitions

Authority: IC 13-14-8; IC 13-17-1-1; IC 13-17-3-4; IC 13-17-3-14

Affected: IC 13-15; IC 13-17

Sec. 1.5. (a) This section applies to the sources, facilities, and operations listed in this article.

(b) The following definitions apply throughout this article:

(1) "Asphalt concrete plant" means a facility used to manufacture asphalt concrete by heating and drying aggregate and mixing with asphalt cement.

(2) "Existing source" means any source that has commenced construction or is in operation on December 8, 2001.

(3) "Fuel combustion steam generator" means any furnace or boiler used in the process of burning solid, liquid, or gaseous fuel or any combination thereof for the purpose of producing steam by heat transfer.

(4) "Glass container manufacturing" means any industry manufacturing containers from soda-silica-lime-glass.

(5) "Grain elevator" means any plant or installation at which grain is:

(A) unloaded;

(B) handled;

(C) cleaned;

(D) dried;

(E) stored; or

(F) loaded.

(6) "Mineral aggregate operation" means an operation involving:

(A) mining;

(B) lasting and crushing;

(C) sizing;

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (D) storing; and
  - (E) transporting;
- of mineral materials.

*(Air Pollution Control Division; 326 IAC 6.8-1-1.5; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3504)*

**326 IAC 6.8-1-2 Particulate emission limitations; modification by commissioner**

Authority: IC 13-14-8; IC 13-17

Affected: IC 13-15

Sec. 2. (a) Particulate matter emissions from facilities constructed after applicable dates in subsections (c) and (d) or not limited by subsection (b), (e), (f), (g), or (h) shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

(b) Fuel combustion steam generators are limited to the following particulate matter emissions limitations:

(1) For solid fuel-fired generators that have:

(A) greater than sixty-three million (63,000,000) kilocalories (kcal) per hour heat input (two hundred fifty million (250,000,000) Btu), a particulate matter content of not greater than eighteen-hundredths (0.18) gram per million calories (one-tenth (0.10) pound per million Btu);

(B) equal to or greater than six million three hundred thousand (6,300,000) kcal per hour heat input, but less than or equal to sixty-three million (63,000,000) kcal per hour heat input (equal to or greater than twenty-five million (25,000,000) Btu, but less than or equal to two hundred fifty million (250,000,000) Btu), a particulate matter content of not greater than sixty-three hundredths (0.63) gram per million calories (thirty-five hundredths (0.35) pound per million Btu); or

(C) less than six million three hundred thousand (6,300,000) kcal per hour heat input (twenty-five million (25,000,000) Btu), a particulate matter content of not greater than one and eight-hundredths (1.08) grams per million calories (six-tenths (0.6) pound per million Btu).

(2) For all liquid fuel-fired steam generators, a particulate matter content of not greater than twenty-seven hundredths (0.27) gram per million kcal (fifteen-hundredths (0.15) pound per million Btu).

(3) For all gaseous fuel-fired steam generators, a particulate matter content of not greater than one-hundredth (0.01) grain per dry standard cubic foot (dscf).

(c) Asphalt concrete plants are limited to particulate matter emissions of not greater than two hundred thirty (230) mg per dscm (one-tenth (0.1) grain per dscf), if in existence on or before June 11, 1973, and consisting of, but not limited to:

(1) driers;

(2) systems for:

(A) screening, handling, storing, and weighing hot aggregate;

(B) loading, transferring, and storing mineral filler;

(C) mixing asphalt concrete; and

(3) the loading, transfer, and storage systems associated with emission control systems.

(d) The following are the requirements for grain elevators:

(1) For grain elevators that began construction or modification before January 13, 1977, any grain storage elevator located at any grain processing source that has a permanent grain storage capacity of thirty-five thousand two hundred (35,200) cubic meters (one million (1,000,000) U.S. bushels) or more, and any grain terminal elevator that has a permanent grain storage capacity of eighty-eight thousand one hundred (88,100) cubic meters (two million five hundred thousand (2,500,000) U.S. bushels) or more shall be limited to particulate matter emissions of not greater than seven-hundredths (0.07) g/dscm (three-hundredths (0.03) grain per dscf).

(2) All grain elevators subject to this article shall provide for housekeeping and maintenance procedures that minimize the opportunity for particulate matter to become airborne and leave the property, such as the following:

(A) Housekeeping practices shall be conducted as follows:

(i) Areas to be swept and maintained shall include, at a minimum, the following:

(AA) General grounds, yard, and other open areas.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (BB) Floors, decks, hopper areas, loading areas, dust collectors, and all areas of dust or waste concentrations.
- (CC) Grain driers with respect to accumulated particulate matter.
- (ii) Cleanings and other collected waste material shall be handled and disposed of so that the area does not generate fugitive dust.
- (iii) Dust from driveways, access roads, and other areas of travel shall be controlled.
- (iv) Accidental spills and other accumulations shall be cleaned up as soon as possible but no later than completion of the day's operation.
- (B) Equipment maintenance shall consist of procedures that eliminate or minimize emissions from equipment or a system caused by the following:
  - (i) Malfunctions.
  - (ii) Breakdowns.
  - (iii) Improper adjustment.
  - (iv) Operating above the rated or designed capacity.
  - (v) Not following designed operating specifications.
  - (vi) Lack of good preventive maintenance care.
  - (vii) Lack of critical and proper spare replacement parts on hand.
  - (viii) Lack of properly trained and experienced personnel.
- (C) Emissions from the affected areas, operations, equipment, and systems shall not exceed twenty percent (20%) opacity as determined under 326 IAC 5-1.
- (e) Gray iron foundries shall be limited to the following:
  - (1) Any cupola of a gray iron foundry shall be limited to particulate matter emissions of not greater than thirty-four hundredths (0.34) g/dscm (fifteen-hundredths (0.15) grain/dscf).
  - (2) Any melting process, excluding any cupola, of a gray iron foundry shall be limited to particulate matter emissions of not greater than sixteen-hundredths (0.16) g/dscm (seven-hundredths (0.07) grain/dscf).
- (f) Glass container manufacturing furnace operations shall be limited to particulate matter emissions of not greater than one (1.0) gram per two (2.0) kilograms of process material (one (1.0) pound per ton).
- (g) Mineral aggregate operations, where the process is totally enclosed, shall comply with the requirements in subsection (a). In addition, 326 IAC 2, 326 IAC 5-1, and 326 IAC 6-4 shall apply in all cases to mineral aggregate operations.
  - (h) Surface coating, reinforced plastic composites fabricating manufacturing processes, and graphic arts manufacturing processes shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:
    - (1) The source shall operate the control device in accordance with manufacturer's specifications.
    - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after the observation:
      - (A) Repair the control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
      - (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detectable at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (3) A source is exempt from subdivision (2) if it operates according to a valid permit under:
  - (A) 326 IAC 2-7;
  - (B) 326 IAC 2-8; or
  - (C) 326 IAC 2-9.
- (4) Surface coating manufacturing processes that use less than five (5) gallons of coating per day are exempt from the work practice standards in subdivisions (1) and (2). At any time the coating application rate increases to greater than five (5) gallons per day, a control device must be in place. A manufacturing process that is subject to this subsection shall remain subject to it even if there is a subsequent decrease in gallons of coating used.
  - (i) Based on modeling analyses available to the commissioner, where it is determined that the limitations in subsections (a) through (g) are not adequate to achieve and maintain the ambient particulate air quality standards established by 326 IAC 1-3, the

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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limitations set forth in this section may be changed for facilities:

- (1) having a significant impact on air quality and located in areas where the ambient particulate standard either is not attained or will not be maintained without emission limitations in addition to those set forth in this section; and
- (2) required to comply with the prevention of significant deterioration requirements of 326 IAC 2.

These limitations shall be established in construction and operation permits issued in accordance with the procedures set forth in 326 IAC 2.

(j) If the emission limitations established in subsections (a) through (g) for facilities that were operating or under construction on August 7, 1980, impose a severe economic hardship on any individual source, then the source may petition the commissioner for reconsideration of the limitations. If the source can demonstrate to the commissioner's satisfaction that a severe hardship will be caused if the applicable requirements in this rule are enforced, then less restrictive emission limitations may be established by the commissioner, provided the less restrictive limitations will guarantee the attainment and maintenance of the particulate ambient air quality standards established by 326 IAC 1-3. (*Air Pollution Control Division; 326 IAC 6.8-1-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3504; filed Mar 21, 2012, 11:27 a.m.: 20120418-IR-326070438FRA*)

### **326 IAC 6.8-1-3 Compliance determination**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 3. Testing to determine the amount of particulate matter emitted from any facility subject to the requirements of this article shall be conducted in accordance with the procedures set forth in 40 CFR 60, Appendix A, Methods 1-5\*, or other procedures approved by the commissioner and U.S. EPA.

\*The following is incorporated by reference: 40 CFR 60, Appendix A, Methods 1-5. Copies may be obtained from the Government Printing Office, 732 North Capitol Street, Washington, D.C. 20401 and are available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-1-3; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3505*)

### **326 IAC 6.8-1-4 Compliance schedules**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 4. (a) Unless the commissioner has determined that a performance test is not required for a facility, the owner or operator of a source shall submit to the commissioner the results of a performance test, conducted in accordance with section 3 of this rule, demonstrating compliance with the emissions limitations established under this article:

- (1) within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated; or
- (2) not later than one hundred eighty (180) days after the initial startup of the facility;

except when different compliance dates are established in a permit.

(b) If the emission limit applicable to a source or facility is made more stringent by reason of amendments to this article or by reason of amended permit requirements, then the source or facility shall achieve compliance as soon as practicable but not later than specified by the following schedule:

- (1) Submittal of plans and specifications within six (6) months after:
  - (A) the date the source becomes subject to the terms in this rule; or
  - (B) the effective date of the amended rule or permit imposing a stricter limit.

Whichever date is applicable to a particular source is hereafter referred to as the effective date.

- (2) Initiation of on-site construction or installation within twelve (12) months after the effective date.
- (3) Completion of on-site construction or installation within twenty-four (24) months after the effective date.
- (4) Achievement of compliance within twenty-eight (28) months after the effective date.
- (5) Submittal of performance results within thirty (30) months of the effective date.

(*Air Pollution Control Division; 326 IAC 6.8-1-4; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3506*)

**326 IAC 6.8-1-5 Control strategies**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 5. (a) For existing sources, the following shall apply:

(1) Whenever emission limitations set forth in 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-10 are revised and established under section 2(i) and 2(j) of this rule, the revisions shall be submitted to U.S. EPA for approval as part of Indiana's SIP.

(2) If a permit issued by the commissioner, under this article, contains emission limitations more stringent than the limitations set forth in 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-10, then the emission limitations set forth in the permit shall supersede and replace the corresponding limitations in 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 through 326 IAC 6.8-10.

(b) For new sources:

- (1) emission limitations; and
- (2) any revisions to emission limitations;

shall be established as conditions in permits.

(c) Upon issuance, the:

- (1) permits in subsection (b) shall be submitted to U.S. EPA for review; and
- (2) emission limitations contained in the permits shall be submitted as SIP revisions.

(d) In this article where there are two (2) emission limits listed for a particular source or facility, the source or facility shall be required to comply with both limits. *(Air Pollution Control Division; 326 IAC 6.8-1-5; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3506; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Mar 21, 2012, 11:27 a.m.: 20120418-IR-326070438FRA)*

**326 IAC 6.8-1-6 State implementation plan revisions**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 6. Any exemptions given or provisions granted under this article by the commissioner in sections 2(a), 2(g), 2(i), 2(j), 4, and 5 of this rule shall be submitted to U.S. EPA as revisions to the SIP. *(Air Pollution Control Division; 326 IAC 6.8-1-6; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3506; filed Mar 21, 2012, 11:27 a.m.: 20120418-IR-326070438FRA)*

**326 IAC 6.8-1-7 Scope**

Authority: IC 13-14-8; IC 13-17-1-1; IC 13-17-3-4; IC 13-17-3-14  
Affected: IC 13-15; IC 13-17

Sec. 7. This article contains control strategies and emission limitations for particulate emissions from sources in Lake County as follows:

326 IAC 6.8-1	General Provisions
326 IAC 6.8-2	PM <sub>10</sub> Emission Requirements
326 IAC 6.8-4	Opacity Limits; Test Methods
326 IAC 6.8-5	Opacity Continuous Emissions Monitors
326 IAC 6.8-8	Continuous Compliance Plan
326 IAC 6.8-9	PM <sub>10</sub> Coke Battery Emission Requirements
326 IAC 6.8-10	Fugitive Particulate Matter
326 IAC 6.8-11	Particulate Matter Contingency Measures

*(Air Pollution Control Division; 326 IAC 6.8-1-7; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3506; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**Rule 2. Lake County: PM<sub>10</sub> Emission Requirements**

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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**326 IAC 6.8-2-1 General provisions and definitions**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 1. (a) This section, 326 IAC 6.8-4, and 326 IAC 6.8-8 apply to the sources, facilities, and operations, in Lake County listed in this rule.

(b) The following definitions apply throughout this rule, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8:

(1) "gr/dscf" means grains of particulate matter per dry standard cubic foot of exhaust air.

(2) "lbs/hr" means pounds of particulate matter emissions emitted per one (1) sixty (60) minute period.

(3) "lbs/MMBtu" means pounds of particulate matter emissions per million British thermal units heat input of fuels fired in the source, unless otherwise stated.

(4) "lbs/ton" means pounds of particulate matter emissions per ton of product output from the particular facility, unless otherwise stated. Byproducts, which may be sold as product, shall not be included under the term "product".

(c) All emission limits in this rule, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 shall be PM<sub>10</sub> limits unless otherwise stated.

(d) Particulate limitations shall not be established for combustion units that burn only natural gas at sources or facilities identified in this article, as long as the units continue to burn only natural gas.

(e) The installation and operation of opacity continuous emissions monitors shall be conducted according to procedures specified in 326 IAC 3. (*Air Pollution Control Division; 326 IAC 6.8-2-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3506; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-2 Lake County: PM<sub>10</sub> and total suspended particulates (TSP) emissions**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 2. Sources located in Lake County and listed in this rule shall comply with the applicable PM<sub>10</sub> and total suspended particulates (TSP) emission limitations and other requirements in this rule. Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emission limitations apply to the following:

(1) One (1) stack serving multiple units specified when the facility description notes "stack serving".

(2) Each stack of multiple stacks serving multiple facilities when the facility description notes "each stack serving".

(*Air Pollution Control Division; 326 IAC 6.8-2-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3507; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-3 American Steel Foundries-East Chicago (Repealed)**

Sec. 3. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-4 ASF-Keystone, Inc.-Hammond**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 4. (a) ASF-Keystone, Inc.-Hammond in Lake County, source identification number 00204, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Stack serving the following spring grinders: 3-0244, 3-0247, 3-0249, 3-0385, 3-0386, 3-0389, 3-0393, and 3-0394		2.085
Shot blast peener number 3-1804	0.011	0.06
Shot blast peener number 3-1811	0.018	0.06

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Shot blast peener number 3-1821	0.016	0.06
Shot blast peener number 3-1823	0.016	0.06
Small coil manufacturing (ESP number 3-3024)		1.05
Medium coil manufacturing (ESP number 3-3027)		1.05
Large coil manufacturing (ESP number 3-3028)		1.75

(b) Boiler number 4-5509 and furnaces shall fire natural gas only. (*Air Pollution Control Division; 326 IAC 6.8-2-4; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3507; filed Oct 20, 2005, 1:30 p.m.: 29 IR 794; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-5 Associated Box (Repealed)**

Sec. 5. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-6 BP Products North America, Inc.-Whiting Refinery**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 6. (a) BP Products North America, Inc.-Whiting Refinery in Lake County, source identification number 00453, shall meet the following emission limits:

Source	Emission Limits	
	lbs/MMBtu	lbs/hr
CRU, F-101 feed preheater	0.0075	0.536
Stack serving number 1 CRU, F-102A heater	0.0075	0.447
Stack serving number 1 power station, boiler numbers 5, 6, and 7	0.0075	5.924
Stack serving number 11 pipe still furnaces H-101, H-102, H-103, H-104, coke preheaters	0.0075	1.49
Number 11 pipe still, H-1X heater	0.0075	1.863
Number 11 pipe still, H-2 vacuum heater	0.0075	0.335
Number 11 pipe still, H-200 crude charge	0.0075	1.859
Number 11 pipe still, H-3 vacuum heater	0.0075	0.410
Number 11 pipe still, H-300 furnace	0.0075	1.341
Stack serving number 12 pipe still, H-1AS, H-1AN, and H-1B preheaters and H-2 vacuum heater	0.0075	4.918
Each stack serving number 12 pipe still H-1CN crude preheater	0.0075	0.894
Number 12 pipe still, H-1CX crude preheater	0.0075	3.055
Number 2 isomerization, H-1 feed heater furnace	0.0075	1.416
Each stack serving number 3 power station, boiler numbers 1, 2, 3, 4, and 6	0.0075	4.28
Number 3 ultraformer, F-7 furnace	0.0075	0.171
Number 3 ultraformer, H-1 feed heater furnace	0.0075	1.788
Number 3 ultraformer, H-2 feed heater furnace	0.0075	1.378
Stack serving number 4 ultraformer, F-1 ultrafiner furnace F-8A and F-8B reboilers	0.0075	2.936
Number 4 ultraformer, F-2 preheater furnace	0.0075	2.131
Number 4 ultraformer, F-3 number 1 reheat furnace	0.0075	1.803
Stack serving number 4 ultraformer, F-4 number 2 reheat furnace, F-5 number 3 reheat furnace, and F-6 number 4 reheat furnace	0.0075	2.124
Number 4 ultraformer, F-7 furnace	0.0075	0.387
Aromatics recovery unit, F-200A furnace	0.0075	1.859

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

Aromatics recovery unit, F-200B furnace	0.0075	1.859
Blending oil desulphurization, F-401 furnace	0.0075	0.261
Each stack serving the cat feed hydrotreating unit F-801 A/B and F-801C	0.0075	0.943
Asphalt F-1 heater	0.0075	0.089
Asphalt F-2 Steiglitz Park residual heater	0.0075	0.209
Sulfur recovery unit incinerator	0.0075	0.285
Beavon Stretford tail gas unit (B/S TGU)	0.0075	0.182
DDU WB-301, DDU WB-302	0.0075	1.106
Hydrogen unit B-501	0.0075	2.729

(b) The F-100 marine docks distillate heater shall have the following emission limits:

Source	Emission Limits	
	lbs/MMBtu	lbs/hr
	0.0075	0.052

(c) BP shall comply with the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Wastewater sludge fluid bed incinerator	0.173 lbs/ton based on 79,000 lbs/hr fluidizing air flow	6.84
FCU 500	1.220 lbs/1,000 lbs coke burned	73.20
FCU 600	1.10 lbs/1,000 lbs coke burned	55.00

(d) Emission limits in subsections (a) and (b) apply to the sum of the filterable (front half) and condensible (back half) particulate matter. The total quantity of particulate matter emissions shall be determined in accordance with 40 CFR 51, Appendix M, Method 201A\* for determining filterable matter and 40 CFR 51, Appendix M, Method 202\* for determining condensibles. However, if a demonstration is made to the commissioner that excessive temperatures preclude the use of 40 CFR 51, Appendix M, Method 201A\*, then the commissioner may allow the use of 40 CFR 60, Appendix A, Method 5\* for determining filterable matter emissions, to be used in conjunction with 40 CFR 51, Appendix M, Method 202\* for determining condensibles. Alternatives to these methods may be used, but only if they are approved in writing by U.S. EPA prior to the test.

\*These documents are incorporated by reference and are available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-2-6; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3508; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; errata filed Feb 29, 2008, 8:54 a.m.: 20080312-IR-326040279ACA*)

**326 IAC 6.8-2-7 Bucko Construction Company, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 7. Bucko Construction Company, Inc., in Lake County, source identification numbers 00103 and 00179, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Rotary dryer	0.017	4.440

(*Air Pollution Control Division; 326 IAC 6.8-2-7; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3509; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)



PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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**326 IAC 6.8-2-8 Cargill, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 8. Cargill, Inc., in Lake County, source identification number 00203, shall meet the following emission limits:

Source	Stack Number	Emission Limits	
		lbs/hr	gr/dscf
Corn syrup solids dust collection system number 2	18-03-R	0.30	0.01
Corn screening system	30-16-G	0.06	0.01
Corn receiving and storage-bin vent #5	33-01-G	0.171	0.02
Corn receiving and storage-bin vent #6	33-02-G	0.171	0.02
Corn cleaner	33-03-G	0.21	0.01
Batch scale hopper #1	34-01-S	0.04	0.01
Dextrin starch reactor #1	34-02-S	0.180	0.01
Dextrin starch cooler #1	34-03-S	0.042	0.01
Surge hopper #1	34-05-S	0.11	0.01
Dextrin feed hoppers: 1 and 2 (System 1)	34-06-S and 34-07-S	0.030	0.01
Dextrin starch cooler	34B-01-S	0.042	0.01
Surge hopper #2	34B-03-S	0.114	0.01
Dextrin starch reactor #2	34B-04-S	0.179	0.01
Dextrin feed hoppers: 3 and 4 (System 2)	34B-05-S and 34B-06-S	0.030	0.01
Batch scale hopper No. 2	34B-13-S	0.067	0.01
Dextrin bulk loading equipment	48-09-S	0.26	0.01
Starch milling system number 1	59-01-S	0.43	0.01
Starch milling system number 2	59-02-S	0.43	0.01
Starch ring dryer number 2	59-03-S	3.50	0.006
Fiber drying equipment	89-01-G	4.50	0.01
Dried corn syrup conveying system, frodex	93-04-W	0.069	0.01
Corn syrup solids conveyor equipment	93-05-W	0.066	0.01
Frodex semibulk packing system, building 93	93-08-W	0.083	0.01
Each stack serving bag dump numbers 1 and 2	93-09-W and 93-10-W	0.10	0.01
Starch bulk loading	93-14-W	0.273	0.01
Starch vacuum clean-up system	93-15-W	0.021	0.01
Starch mixing and bagging system #1	93-16-W	0.130	0.01
Starch mixing and bagging system #2	93-17-W	0.264	0.01
New corn syrup spray dryer cooler system number 3 (SIP #2)	100-01-R	4.96	0.015
#4 corn syrup spray dryer	100-03-R	4.2	0.01
Carbon regeneration furnace #2	104-01-R	0.728	0.015
Soda ash tank	104-02-R	0.154	0.02
Filter aid hopper	104-03-R	0.044	0.02
Sodium bisulfate bag dump	104-05-R	0.080	0.02
Each stack serving bulk corn starch storage bin numbers 20 through 36 (five (5) stacks may operate at one (1) time)	120-01-S to 120-17-S	0.56	0.01
Gluten dryer system	121-01-G	3.0	0.03
Germ dryer/cooler	124A-01-G	1.852	0.02

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Starch ring dryer number 3	125-01-S	3.50	0.006
Waxy bulk cornstarch storage bins numbers 95 through 98 (only one (1) may operate at a time)	126-01-S to 126-04-S	0.16	0.01
#1 and #2 vacuum cleaner system	127-21-B and 127-22-B	0.031	0.01
#1 and #2 alternate carbohydrate storage bins	127-28-B and 127-29-B	0.18	0.01
Alternate carbohydrate mill feeder hopper	127-30-B	0.028	0.01
Special starch process with starch dryer number 4, building 128	128-01-S	3.5	0.01
Four products blending systems, building 93	130-01-S to 130-04-S	0.42	0.01
Dextrin blender	130-05-S	0.248	0.01
Corn receiving and storage-bin vent #1 and #2	140-01-G and 140-02-G	0.343	0.02
Corn receiving and storage-bin vent #3 and #4	140-03-G and 140-04-G	0.343	0.02
Corn dump pit	140-05-G	1.286	0.01
Gravity take-up conveyor system	140-06-G	0.154	0.01
Corn elevator conveying	140-07-G	0.086	0.01

*(Air Pollution Control Division; 326 IAC 6.8-2-8; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3509; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Oct 20, 2010, 9:02 a.m.: 20101117-IR-326090476FRA)*

**326 IAC 6.8-2-9 W. R. Grace and Co.-Conn.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 9. (a) W. R. Grace and Co.-Conn. in Lake County, source identification number 00310, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Sodium silicate furnace	1.439	6.0

(b) The three (3) boilers located at the powerhouse shall fire natural gas only. *(Air Pollution Control Division; 326 IAC 6.8-2-9; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3511; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-10 General Refractory (Repealed)**

Sec. 10. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-11 Georgia Pacific (Repealed)**

Sec. 11. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-12 Globe Industries (Repealed)**

Sec. 12. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-13 Hammond Group, Inc. (HGI) Halox Division, Lead Products Division, and Hammond Expander Division**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 13. (a) Hammond Group, Inc. (HGI) Halox Division, Lead Products Division, and Hammond Expander Division in Lake County, source identification number 00219, shall meet the following emission limits:

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

Source	Emission Limits	
	gr/dscf	lbs/hr
Halox Division		
Stack 17-S-40	0.030	2.120
Stack 20-S-36	0.022	0.395
Stack 20-S-41	0.022	0.450
Stack 20-S-37	0.022	0.200
Stack 20-S-38	0.022	0.087
Stack 17-S-25	0.030	2.120
Stack 20-S-42	0.022	0.200
Stack 20-S-43	0.022	0.087
Stack 20-S-39	0.022	0.496
Stack 20-S-44	0.022	0.496
Stack 13-S-48	0.022	0.471
Stack 14-S-45	0.022	0.471
Lead Products Division		
Stack 4A-S-8	0.022	0.250
Stack 14-S-16	0.022	0.250
Stack 1-S-2	0.022	0.250
Stack 1-S-26	0.022	0.250
Stack 16-S-56	0.022	1.000
Stack 1-S-52	0.022	1.000
Stack 1-S-27	0.022	0.290
Stack 4-S-35	0.022	0.570
Stack 6-S-33	0.022	0.900
Stack 4B-S-34	0.022	0.400
Stack 6-S-47	0.022	0.400
V-1	0.022	1.000
Expander Division		
Stack 14-S-15	0.022	0.320

(b) Combustion located sources at 18-S-24 and stack 18-S-49 shall fire natural gas only. (*Air Pollution Control Division; 326 IAC 6.8-2-13; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3512; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-14 Hammond Group, Inc.-Halstab Division**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 14. (a) Hammond Group, Inc.-Halstab Division in Lake County, source identification number 00218, shall meet the following emission limits:

Source	Emission Limits	
	gr/dscf	lbs/hr
Stack S-1	0.022	0.220
Stack S-2	0.022	0.080
Stack S-4	0.022	1.460
Stack S-5	0.022	1.030

**PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY**

Stacks S-6, S-7, and S-8, each stack	0.022	0.570
Stacks S-9, S-10, S-11, S-12, S-13, S-14, S-15, and S-16, each stack	0.022	0.200
Stack S-17	0.022	1.990

(b) Combustion sources located at S-18 and stack S-19 shall fire natural gas only. *(Air Pollution Control Division; 326 IAC 6.8-2-14; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3513; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-15 Hammond Group Inc. (HGI)-Expander Division (Repealed)**

Sec. 15. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-16 Resco Products, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 16. Resco Products, Inc., in Lake County, source identification number 00222, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3)	1.36	4.50
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3) if only one kiln is in operation	1.36	8.40
Lanley oven (S-7)	0.210	0.840
Basic dryer (stack 8)	0.916	3.020
Bricks (bats) crushing (D-9)	0.024	0.490
Rotary dryer (D-10)	0.032	0.640
Magnesite handling and storage (west) (D-11)	0.020	0.410
Magnesite screening and milling (west) (D-13)	0.044	0.700
Magnesite unloading and crushing (D-1)	0.017	0.580
Magnesite material handling and storage (east) (D-2)	0.012	0.410
Magnesite screening and milling (east) (D-8)	0.051	1.280
Simpson mixer #3 (D-6)	0.033	0.230
Simpson mixer #2 (D-5)	0.0165	0.230
DEV-22 mixer #5 (D-4)	0.033	0.230
3 Tilt mixers #1, #2, and #3 (D-12B, D-12C, and D-12D)	0.054	0.460
DE-18 flat mixer, mixer #4 (D-14)	0.0165	0.230
Resin-bonded materials handling, batching and pressing (D-12A)	0.25	0.93

*(Air Pollution Control Division; 326 IAC 6.8-2-16; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3513; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-17 Mittal Steel-Indiana Harbor East Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 17. (a) Mittal Steel-Indiana Harbor East Inc. in Lake County, source identification number 00316, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Number 4 slab mill scarfer	0.039 lbs/ton	21.97

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Number 2A bloomer scarfer	0.107 lbs/ton	10.70
Mold foundry baghouse	0.011 gr/dscf	26.00
Sinter plant discharge end and cooler baghouse	0.01 gr/dscf TSP	11.70 TSP
Sinter plant windbox baghouse	0.007 gr/dscf TSP	17.00 TSP
Lime plant silo baghouses	0.085 lbs/ton	5.530
Lime plant firing and kiln baghouses	0.110 lbs/ton	7.149
Number 4 roll shop erwin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4 roll shop wheelabrator baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 4A roll shop erwin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4A roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 2 roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.270 TSP
Number 6 roll shop roll blaster/baghouse	0.0052 gr/dscf TSP	0.200 TSP
Electric shop blasters/baghouses	0.0052 gr/dscf TSP	1.070 TSP
Number 7 blast furnace casthouse (west) baghouse	0.003 gr/dscf	11.22
Number 7 blast furnace stockhouse pellet baghouse	0.0052 gr/dscf	4.00
Number 7 blast furnace casthouse (east) baghouse	0.011 gr/dscf TSP	22.00 TSP
Number 7 blast furnace coke screening baghouse	0.007 gr/dscf TSP	4.200 TSP
Number 7 blast furnace stockhouse coke baghouse	0.01 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace number 10 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace number 20 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace caster fume collection baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace ladle metallurgical station baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace secondary ventilation system scrubber	0.015 gr/dscf TSP	12.00 TSP
Number 2 basic oxygen furnace tundish dump baghouse	0.0052 gr/dscf TSP	2.200 TSP
Number 2 basic oxygen furnace charging aisle reladling and desulfurization baghouse	0.011 gr/dscf TSP	28.30 TSP
Number 2 basic oxygen furnace truck and ladle hopper baghouse	0.0052 gr/dscf TSP	0.800 TSP
Number 2 basic oxygen furnace flux storage and batch baghouse	0.0052 gr/dscf TSP	0.530 TSP
Number 4 basic oxygen furnace reladling and desulfurization baghouses	0.0052 gr/dscf TSP	8.26 TSP
Number 4 basic oxygen furnace scrubber stack (steelmaking)	0.187 lbs/ton TSP	100.00 TSP
Number 4 basic oxygen furnace vacuum degassing baghouse	0.01 gr/dscf TSP	4.280 TSP
Number 4 basic oxygen furnace secondary ventilation system baghouse	0.006 gr/dscf TSP	22.30 TSP
Stack serving blast furnace stove, number 5 (3 units)	0.016 lbs/MMBtu	4.70
Stack serving blast furnace stove, number 6 (4 units)	0.016 lbs/MMBtu	3.64
Stack serving blast furnace stove, number 7 (3 units)	0.0076 lbs/MMBtu	6.32
Stack serving "A" blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
Stack serving "B" blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
100 inch plate mill reheat furnace	0.078 lbs/MMBtu	13.74
Number 4 slabber soaking pit numbers 19 through 45 collective	0.006 lbs/MMBtu	1.750
Stack serving number 2AC station boiler numbers 211 through 213	0.018 lbs/MMBtu	16.20
Stack serving number 3AC station boiler numbers 301 through 304	0.018 lbs/MMBtu	16.20
Number 3AC station boiler number 305	0.018 lbs/MMBtu	5.400
Stack serving number 4AC station boiler number 401 through 404	0.042 lbs/MMBtu	76.578
Number 4AC station boiler number 405	0.028 lbs/MMBtu	18.78
Stack serving number 5 boiler house (3 units)	0.013 lbs/MMBtu	18.05

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Electric arc furnace shop direct shell evacuation system baghouse roof monitor	0.0052 gr/dscf	17.14
Electric arc furnace shop ladle metallurgical station baghouse	0.01 gr/dscf	0.820
Raw coal conveyor transfer baghouse A	0.003 gr/dscf	0.17
Raw coal storage bin baghouse C	0.003 gr/dscf	0.23
Coal pulverizer baghouse D	0.0015 gr/dscf	0.93
Coal pulverizer baghouse E	0.0015 gr/dscf	0.93
Number 7 blast furnace coal storage bin baghouse F	0.003 gr/dscf	0.09
Number 7 blast furnace coal storage bin baghouse G	0.003 gr/dscf	0.09
Numbers 5 and 6 blast furnace coal storage bin baghouse H	0.003 gr/dscf	0.09

(b) The following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:

Source	Opacity
Electric arc furnace direct shell evacuation system baghouse	5%, 6 minute average
Electric arc furnace shop roof monitor	20%, 6 minute average
Electric arc furnace shop ladle metallurgical station baghouse	5%, 6 minute average
Number 2 basic oxygen furnace, number 10 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace, number 20 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace caster fume collection baghouse	5%, 3 minute average
Number 2 basic oxygen furnace charging isle and reladling desulfurization baghouse	5%, 3 minute average
Number 2 basic oxygen furnace flux storage and batch baghouse	5%, 3 minute average
Number 2 basic oxygen furnace ladle metallurgy station baghouse	5%, 3 minute average
Number 2 basic oxygen furnace roof monitor	20%, 3 minute average
Number 2 basic oxygen furnace secondary ventilation system scrubber	20%, 6 minute average
Number 2 basic oxygen furnace truck and ladle hopper baghouse	5%, 3 minute average
Number 2 basic oxygen furnace tundish dump baghouse	5%, 3 minute average
Number 4 basic oxygen furnace off-gas scrubber	20%, 6 minute average
Number 4 basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Number 4 basic oxygen furnace roof monitor	20%, 3 minute average
Number 4 basic oxygen furnace secondary ventilation system baghouse	5%, 3 minute average
Number 4 basic oxygen furnace vacuum degassing material handling baghouse	5%, 3 minute average
Number 7 blast furnace casthouse	15%, 6 minute average

(c) The following combustion sources shall fire natural gas only:

- (1) 12 inch bar mill reheat furnace.
- (2) Stack serving 21 inch bar mill reheat furnace numbers 1 and 2.
- (3) Stack serving 76 inch hot strip mill reheat furnace numbers 1, 2, and 3.
- (4) Stack serving 80 inch hot strip mill furnace numbers 3 and 4.
- (5) Number 3 cold strip and numbers 5 and 6 annealing furnaces.
- (6) Number 5 galvanizing line.
- (7) Number 3 continuous anneal line.
- (8) Open coil anneal.
- (9) Plant 1 galvanizing lines.
- (10) Normalizing line.

(d) Number 7 blast furnace casthouse. Tapping emissions from the number 7 blast furnace casthouse shall be controlled by a hood vented to a baghouse on and after December 1, 1992. Canopy hoods shall be:

- (1) installed above each of the four (4) furnace tap holes;
- (2) ducted to a new three hundred seventy thousand (370,000) actual cubic feet per minute minimum design flow rate

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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baghouse;

(3) located just above the casthouse crane; and

(4) extend via vertical sheeting to the casthouse roof.

The system shall provide a minimum of one hundred eighty-five thousand (185,000) actual cubic feet per minute of air flow (fume capture) to each hood when the corresponding tap hole is being drilled or plugged. *(Air Pollution Control Division; 326 IAC 6.8-2-17; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3514; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-18 Jupiter Aluminum Corporation**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 18. (a) Jupiter Aluminum Corporation in Lake County, source identification number 00201, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Aluminum reverberatory furnace number 6	0.060	2.008
Aluminum reverberatory furnace number 2	0.130	1.499

(b) The following combustion sources shall fire natural gas only:

(1) Number 2 annealer.

(2) Number 3 annealer.

(3) Annealing furnace.

(4) Boiler.

*(Air Pollution Control Division; 326 IAC 6.8-2-18; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3516; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Apr 29, 2015, 3:35 p.m.: 20150527-IR-326120520FRA)*

**326 IAC 6.8-2-19 Dover Chemical Corporation-Hammond**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 19. Dover Chemical Corporation-Hammond in Lake County, source identification number 00227, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Cleaver Brooks boiler B-4	0.007 lbs/MMBtu	0.09
Cleaver Brooks boiler B-5	0.007 lbs/MMBtu	0.14
VA power B-3 boiler	0.007 lbs/MMBtu	0.04
Chlorinated wax process	0.001 lbs/ton	0.003
Sulfurized fat process	0.157 lbs/ton	0.230

*(Air Pollution Control Division; 326 IAC 6.8-2-19; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3516; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-20 LaSalle Steel Company**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 20. LaSalle Steel Company in Lake County, source identification number 00220, shall meet the following emission limits:

**PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY**

Source	Emission Limits	
	lbs/ton	lbs/hr
Number 11 furnace precipitator	0.548	0.940
Stack serving Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) shot blasting operation <i>(Air Pollution Control Division; 326 IAC 6.8-2-20; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3516; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)</i>	0.086	2.57

**326 IAC 6.8-2-21 Mittal Steel-Indiana Harbor West Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 21. (a) Mittal Steel-Indiana Harbor West Inc., in Lake County, source identification number 00318, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Stack serving number 3 blast furnace stoves	0.027 lbs/MMBtu	11.73
Stack serving number 4 blast furnace stoves	0.027 lbs/MMBtu	12.93
3 stacks serving 84" hot strip mill slab reheat furnace numbers 1, 2, and 3	0.086 lbs/MMBtu	36.56
Utility boiler number 5	0.066 lbs/MMBtu	25.69
Utility boiler number 6	0.066 lbs/MMBtu	25.69
Utility boiler number 7	0.066 lbs/MMBtu	25.69
Utility boiler number 8	0.066 lbs/MMBtu	61.59
Basic oxygen furnace main stack	0.018 gr/dscf	69.40
Reladling and desulfurization baghouse	0.008 gr/dscf	10.49
Ladle metallurgical station baghouse	0.004 gr/dscf	3.630
Sinter plant breaker discharge end	0.02 gr/dscf TSP	18.05 TSP
Sinter plant windbox stack 08	0.02 gr/dscf TSP	49.70 TSP

(b) The following opacity limits for Mittal Steel-Indiana Harbor West Inc., shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:

Source	Opacity
Basic oxygen furnace ladle metallurgical station baghouse	5%, 3 minute average
Basic oxygen furnace main stack	20%, 6 minute average
Basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Basic oxygen furnace shop roof monitor	20%, 3 minute average

(c) The installation and operation of opacity continuous emissions monitors shall be conducted according to procedures specified in 326 IAC 3. Before December 10, 1993, Mittal Steel-Indiana Harbor West Inc. basic oxygen furnace precipitator main stack shall have a continuous emission monitor for opacity installed and operating.

(d) The following combustion sources shall fire natural gas only:

- (1) Hot strip space heat numbers 1 through 28.
- (2) Number 3 sheet mill including:
  - (A) single stack batch annealing furnaces numbers 1 through 7; and
  - (B) four (4) stack batch annealing furnaces numbers 1 through 11.
- (3) Number 2 Sheet Mill, No. 1 Galvanizing and Aluminizing Line, and No. 2 galvanize lines including:
  - (A) galvanizer furnaces (one (1) per line); and
  - (B) flame furnaces (one (1) per line).

(e) The following site-specific control requirements apply as follows:



PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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(1) Basic oxygen furnace facility roof monitor. The twenty percent (20%), three (3) minute average opacity (20%) except for standard in this section shall be:

- (A) achieved not later than December 10, 1993; and
- (B) maintained thereafter.

(2) Number 4 blast furnace. Compliance with the opacity limit shall be:

- (A) achieved not later than February 1, 1994; and
- (B) maintained thereafter.

In addition, control equipment capable of capturing and collecting emissions generated at the east and west tilting runner spouts and tap holes shall be installed and operational by February 1, 1994.

*(Air Pollution Control Division; 326 IAC 6.8-2-21; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3516; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-22 Carmeuse Lime Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 22. Carmeuse Lime Inc., in Lake County, source identification number 00112, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Flue dust loadout number 1 (MHL 14)	0.003	0.110
Flue dust loadout number 2 (MHL 15)	0.003	0.100
Lime grinder (MHL 13)	0.015	0.440
Lime handling baghouse number 1 (MHL 6)	0.002	0.260
Lime handling baghouse number 2 (MHL 7)	0.002	0.180
Lime handling baghouse number 3 (MHL 8)	0.0004	0.050
Lime handling baghouse number 4 (MHL 9)	0.001	0.130
Lime loadout baghouse number 1 (MHL 10)	0.0004	0.050
Lime loadout baghouse number 2 (MHL 11)	0.0004	0.050
Lime loadout baghouse number 3 (MHL 12)	0.004	0.410
Lime rotary kiln number 1	0.478	9.950
Lime rotary kiln number 2	0.478	9.950
Lime rotary kiln number 3	0.478	9.950
Lime rotary kiln number 4	0.478	9.950
Lime rotary kiln number 5	0.478	9.950

*(Air Pollution Control Division; 326 IAC 6.8-2-22; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3517; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-23 Marport Smelting (Repealed)**

Sec. 23. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-24 Methodist Hospital Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 24. Methodist Hospital Inc., in Lake County, source identification number 00114, shall meet the following emission limits:

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

Source	Emission Limits	
	lb/MMBtu	lbs/hr
Boiler number 1	0.044	0.350

*(Air Pollution Control Division; 326 IAC 6.8-2-24; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3517; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-25 National Recovery Systems**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 25. National Recovery Systems in Lake County, source identification number 00323, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Drying system	0.203	4.060
Material storage handling	0.034	0.680
Each stack serving north and south cement storage silos (2 stacks)	0.001	0.012

*(Air Pollution Control Division; 326 IAC 6.8-2-25; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3518; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-26 NIPSCO-Dean H. Mitchell Station**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 26. (a) NIPSCO-Dean H. Mitchell Station in Lake County, source identification number 00117, shall meet the following requirements and emission limits for boiler numbers 4, 5, 6, and 11:

- (1) Operation under either subdivision (2)(B) or (2)(C) shall only be allowed provided that a nozzle is in the stack serving boiler numbers 4 and 5 such that the stack diameter is restricted to eight and three-tenths (8.3) feet.
- (2) NIPSCO may operate under any one (1) of the following scenarios:
  - (A) Boiler numbers 4, 5, 6, and 11 may operate simultaneously under the following conditions:
    - (i) One (1) of boiler number 4 or 5 may operate on coal if the other boiler is operated on natural gas or is not operating. Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to:
      - (AA) one-tenth (0.1) pound per million Btu; and
      - (BB) one hundred twenty-eight and seventy-five hundredths (128.75) pounds per hour.
    - (ii) Boiler numbers 6 and 11 may operate simultaneously on coal. Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to:
      - (AA) one-tenth (0.1) pound per million Btu; and
      - (BB) two hundred thirty-six (236.0) pounds per hour.
  - (B) Boiler numbers 4, 5, 6, and 11 may operate simultaneously on coal subject to the following conditions:
    - (i) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to:
      - (AA) seventy-four thousandths (0.074) pound per million Btu; and
      - (BB) one hundred eighty-five (185.0) pounds per hour.
    - (ii) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to:
      - (AA) seventy-four thousandths (0.074) pound per million Btu; and
      - (BB) one hundred seventy-five (175.0) pounds per hour.
  - (C) One (1) set of either boiler numbers 4 and 5 or 6 and 11 may operate on coal, if the other set is not operating, subject to the following conditions:

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (i) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to:
  - (AA) one-tenth (0.1) pound per million Btu; and
  - (BB) two hundred fifty (250.0) pounds per hour.
- (ii) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to:
  - (AA) one-tenth (0.1) pound per million Btu; and
  - (BB) two hundred thirty-six (236) pounds per hour.

(3) NIPSCO shall maintain a daily log of the following for boiler numbers 4, 5, 6, and 11:

- (A) Fuel type.
- (B) Transition time of changes between or within operating scenarios.

The log shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(4) Emission limits shall be maintained during transition periods within or between operating scenarios.

(b) On and after May 13, 1999, biennial stack testing shall be conducted in the stack serving boiler numbers 4 and 5 and in the stack serving boiler numbers 6 and 11 meeting the following conditions:

(1) Stack testing shall:

- (A) begin within sixty (60) days; and
- (B) be completed within ninety (90) days of the initial use of the operating scenario specified in subsection (a)(2)(B).

Particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to seventh-four thousandths (0.074) pound per million Btu.

(2) After the initial stack test specified in subdivision (1), NIPSCO may use the operating scenario specified in subsection (a)(2)(B) if in the previous biennial stack test particulate emissions from boiler numbers 4, 5, 6, and 11 met the emission limitation of seventy-four thousandths (0.074) pound per million Btu.

(3) If the operating scenario specified in subsection (a)(2)(B) has not been used since the previous biennial stack test specified in this subdivision, then particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to one-tenth (0.1) pound per million Btu.

(4) If:

- (A) the operating scenario specified in subsection (a)(2)(B) has been utilized since the previous biennial stack test specified in this subdivision; and
- (B) NIPSCO no longer has the ability to operate the boilers as specified in subsection (a)(2)(B);

then particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to one-tenth (0.1) pound per million Btu.

All emissions testing shall be conducted in accordance with the procedures specified in 326 IAC 3-6. Records of stack test data shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(c) Units 5 and 6 shall comply with a twenty percent (20%), six (6) minute average opacity limit after December 10, 1993.

(d) The number 9A gas turbine shall fire natural gas only. (*Air Pollution Control Division; 326 IAC 6.8-2-26; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3518; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-27 Praxair Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 27. (a) Praxair Inc., in Lake County, source identification number 00330, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Drum + shotblaster and baghouse, stack 075	0.002 gr/dscf	0.028
Generators, numbers 1 through 7	0.008 lbs/MMBtu	0.279
Cylinder shotblaster number 1 baghouse, stack 031	0.002 gr/dscf	0.020

(b) The following combustion sources shall fire natural gas only:

- (1) Package boilers (2 units).

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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(2) Plant numbers 6, 7, and 8 regenerator heaters.

*(Air Pollution Control Division; 326 IAC 6.8-2-27; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3519; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-28 Premiere Candy Company**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 28. Premiere Candy Company in Lake County, source identification number 00236, shall meet the following emission limits:

Source	Emission Limits	
	lb/MMBtu	lbs/hr
Boiler number 1 (North)	0.069	0.420
Boiler number 2 (South)	0.069	0.450

*(Air Pollution Control Division; 326 IAC 6.8-2-28; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3519; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-29 Harsco Minerals - Plant #14**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 29. Harsco Minerals - Plant #14 in Lake County, source identification number 00107, shall meet the following emission limits:

Source	Emission Limits	
	gr/dscf	lbs/hr
Crushing and screening	0.015	9.0

*(Air Pollution Control Division; 326 IAC 6.8-2-29; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3519; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Apr 29, 2015, 3:35 p.m.: 20150527-IR-326120520FRA)*

**326 IAC 6.8-2-30 Rhodia, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 30. Rhodia, Inc., in Lake County, source identification number 00242, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Package boiler	0.007 lbs/MMBtu	0.755
Preheater	0.007 lbs/MMBtu	0.230
Sulfuric acid production unit number 4	0.150 lbs/ton acid produced	6.958 acid mist

*(Air Pollution Control Division; 326 IAC 6.8-2-30; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3519; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-31 Silgan Containers Manufacturing Corporation**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 31. (a) Silgan Containers Manufacturing Corporation in Lake County, source identification number 00202, shall meet

PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

the following emission limits:

Source	Emission Limits	
	lb/MMBtu	lbs/hr
Two (2) stacks serving an incinerator (1 unit)	0.007	0.310
Coil coater	0.007	0.290

(b) The following combustion sources shall fire natural gas only:

- (1) Basecoat ovens (6 units).
- (2) Boiler number 4.
- (3) Boiler numbers 1, 2, and 3.
- (4) Johnson space heater numbers 1 through 4.
- (5) Litho ovens (5 units).

*(Air Pollution Control Division; 326 IAC 6.8-2-31; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3520; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-32 Smith Ready Mix, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 32. (a) Smith Ready Mix, Inc., in Lake County, source identification number 05111, shall meet the following emission limits:

Source	Emission Limits	
	lbs/ton	lbs/hr
Central mix	0.0013	0.350

(b) The 2 boiler units shall fire natural gas only. *(Air Pollution Control Division; 326 IAC 6.8-2-32; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3520; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-33 State Line Energy, LLC**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 33. (a) State Line Energy, LLC, in Lake County, source identification number 00210, shall meet the following emission limits:

Source	Emission Limits	
	lb/MMBtu	lbs/hr
Unit 3	0.100	213.00
Unit 4	0.100	356.80

(b) The emergency backup boiler numbers 2-1 and 2-2 shall fire natural gas only. *(Air Pollution Control Division; 326 IAC 6.8-2-33; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3520; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-2-34 Huhtamaki Foodservice, Inc.**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 34. (a) Huhtamaki Foodservice, Inc., in Lake County, source identification number 00228, shall meet the following emission limits:

Source	Emission Limits	
	Units	lb/hr

**PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY**

Molded pulp dryer number 1	0.546 lbs/ton	0.290
Molded pulp dryer number 2	0.546 lbs/ton	0.290
Molded pulp dryer number 3	0.546 lbs/ton	0.342
Molded pulp dryer number 4	0.546 lbs/ton	0.342
Molded pulp dryer number 5	0.546 lbs/ton	0.290
Molded pulp dryer number 6	0.546 lbs/ton	0.290
Molded pulp dryer number 8	0.546 lbs/ton	0.615
Molded pulp dryer number 9	0.546 lbs/ton	0.615
Molded pulp dryer number 10	0.546 lbs/ton	0.615
Molded pulp dryers number 1, 2, 3, 4, 5, 6, 8, 9, 10		2.41 (total)
Babcock and Wilcox boiler	0.007 lbs/MMBtu	0.050

(b) In addition to complying with section 1 of this rule and subsection (a), Huhtamaki Foodservice, Inc. shall comply with the following:

- (1) Maintain daily records for each dryer that contains sufficient information to calculate emissions, including the following:
  - (A) Dryer identification.
  - (B) Time and duration of operation for each dryer per day.
  - (C) Total quantity of molded pulp product passed through each dryer each day.
  - (D) PM<sub>10</sub> emission data for the product that passed through each dryer, each day.
- (2) Compliance with the individual dryer's emission limitation shall be on an hourly basis.
- (3) Compliance with the total lb/hr emission limitation for the combination of dryers listed in subsection (a) shall be on a daily basis. Compliance shall be demonstrated by a calculation of the sum of the total pounds of PM<sub>10</sub> emitted on each calendar day from all dryers that operated in that calendar day, divided by twenty-four (24) hours.

*(Air Pollution Control Division; 326 IAC 6.8-2-34; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3520; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; filed Apr 29, 2015, 3:35 p.m.: 20150527-IR-326120520FRA)*

**326 IAC 6.8-2-35 Conopco, Inc. d/b/a Unilever HPC USA**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 35. (a) Conopco, Inc. d/b/a Unilever HPC USA in Lake County, source identification number 00229, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Stack serving boiler house, building number 8, Babcock-Wilcox boiler number 4	0.116 lbs/MMBtu	18.88
Facility milling and pelletizer detergent bar soap dust collection system (DC-1), building number 15	0.020 gr/dscf	1.03
Powder dye mixing system (DC-4), building number 15	0.020 gr/dscf	0.130
Schenible wet scrubber and demister collector system, building number 15	0.030 gr/dscf	1.030
Each stack serving soap noodle bins numbers 1, 2, and 3 dust collection system (DC-5, DC-6, and DC-7)	0.020 gr/dscf	0.210
Chip Mixer No. 1 and Chip Mixer No. 2	0.020 gr/dscf	0.720
Zinc Oxide catalyst weigh station and 3 chill rolls	0.020 gr/dscf	0.800
Three chill rolls apron conveyors (DC-2), building number 15 and screw conveyors	0.020 gr/dscf	1.090
3 vacuum system soap dryers dust collection system, building number 14	0.020 gr/dscf	0.120
5 noodle bins, 2 rework systems, and 1 scrap soap kettle dust collection system, building number 3	0.020 gr/dscf	0.860

**PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY**

Dust collector system for soap rework grinding process, building number 14	0.020 gr/dscf	0.250
Stack serving tallow finishing lines numbers 8, 9, 10, 11, 12, and 13 dust collection system (DC), building number 14	0.020 gr/dscf	1.540
American hydrotherm boiler 2, stack 1A, building number 15A	0.150 lbs/MMBtu	1.830
D. R. Technology wet scrubber and demister collection system, stack 2A, building number 15A	0.030 gr/dscf	1.030
Flex Kleen dust collection system DC-1053, stack 3A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1054, stack 4A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1055, stack 5A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1056, stack 6A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1052, stack 7A, building number 15A	0.020 gr/dscf	2.130
Flex Kleen dust collection system DC-1051, stack 8A, building number 15A	0.020 gr/dscf	2.130

(b) The American hydrotherm boiler number 1 shall fire natural gas only. (*Air Pollution Control Division; 326 IAC 6.8-2-35; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3521; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-36 Union Tank Car Company, Plant 1**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 36. (a) Union Tank Car Company, Plant 1 in Lake County, source identification number 00332, shall meet the following emission limits:

Source	Emission Limit (Units)	Emission Limit (lbs/hr)
Grit blaster	0.01 gr/dscf	9.9

(b) The following combustion sources shall burn natural gas only:

- (1) Number 4 boiler.
- (2) North stress furnace.
- (3) Paint oven unit numbers 1 through 3.
- (4) South stress furnace.

(*Air Pollution Control Division; 326 IAC 6.8-2-36; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3522; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-2-37 United States Gypsum Company**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
 Affected: IC 13-15; IC 13-17

Sec. 37. United States Gypsum Company in Lake County, source identification number 00333, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Raw material handling		
Each stack serving raw material conveying and storage, stacks J11, J12, and J13	0.015 gr/dscf	0.190
Rock handling process		
Drying, grinding, and calcining, stack M1	0.012 gr/dscf	3.210
Stucco elevating and conveying, stack M2	0.015 gr/dscf	2.210
Wallboard manufacturing process		
Paper grinding and stucco system, stack B1	0.020 gr/dscf	2.230
Specialty board manufacturing process (kerfing), stack B3	0.020 gr/dscf	0.260

**PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY**

Each stack serving ready mix process, stacks J1, J2, and J3	0.017 lbs/ton	0.100
Dry texture paint process		
Mixing and packing, stack J4	0.020 gr/dscf	0.190
Bag dumping, stack J5	0.010 gr/dscf	0.100
Dry additive conveying, stack J6	0.010 gr/dscf	0.030
Dry joint compound process		
Mixing and packing, stack J7	0.020 gr/dscf	0.340
Additive bag dumping, stack J8	0.010 gr/dscf	0.34

*(Air Pollution Control Division; 326 IAC 6.8-2-37; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3522; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA; errata filed Jan 7, 2011, 1:13 p.m.: 20110126-IR-326110007ACA)*

**326 IAC 6.8-2-38 U.S. Steel-Gary Works**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 38. (a) U.S. Steel-Gary Works in Lake County, source identification number 00121, shall meet the following emission limits:

Source	Emission Limits	
	Units	lbs/hr
Coke battery #2 precarbonization system electrostatic precipitators	not applicable	62.5 (total)
Coke battery #3 precarbonization system electrostatic precipitators	not applicable	62.5 (total)
Number 3 sinter plant coolers	0.0300 gr/dscf	272.57 (total)
Number 3 sinter plant discharge area baghouses	0.0100 gr/dscf	20.57 (total)
Number 3 sinter plant sinter screening station baghouse	0.0100 gr/dscf	10.89
Number 3 sinter plant storage bins building baghouse	0.0100 gr/dscf	0.43
Number 3 sinter plant windbox stacks	0.020 gr/dscf	200 (total)
Number 4 boiler house boilers when three boilers are operating	0.036 lbs/MMBtu	54.1 (total)
Number 4 boiler house boilers when one or two boilers are operating	0.054 lbs/MMBtu	54.1 (total)
Plate mill batch reheat furnaces nos. 6 and 8	0.009 lbs/MMBtu	0.070 (total)
Plate mill continuous reheat furnaces 1 and 2	0.009 lbs/MMBtu	3.72 (total)
84" hot strip mill reheat furnaces nos. 1, 2, 3, and 4	0.017 lbs/MMBtu	40.80 (total)
84" hot strip mill waste heat boiler no. 1	0.043 lbs/MMBtu	10.00
84" hot strip mill waste heat boiler no. 2	0.043 lbs/MMBtu	10.00
Blast furnace number 14 stoves	0.024 lbs/MMBtu	20.40 (total)
Blast furnace number 4 stoves	0.033 lbs/MMBtu	11.70 (total)
Blast furnace number 6 stoves	0.033 lbs/MMBtu	11.70 (total)
Blast furnace number 8 stoves	0.033 lbs/MMBtu	11.70 (total)
Coke battery number 2 underfiring stack	not applicable	32.30
Coke battery number 3 underfiring stack	not applicable	25.50
Coke battery number 5 underfiring stack	not applicable	24.70
Coke battery number 7 underfiring stack	not applicable	21.30
Coke plant boiler house, boiler numbers 1 and 2	0.003 lbs/MMBtu	0.75 (total)
Coke plant boiler house, boiler number 3	0.012 lbs/MMBtu	1.80
Coke plant boiler house, boiler numbers 4 and 5	0.012 lbs/MMBtu	3.90



PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Coke plant boiler house, boiler number 6	0.012 lbs/MMBtu	2.00
Coke plant boiler house, boiler number 7	0.012 lbs/MMBtu	1.90
Coke plant boiler house, boiler number 8	0.012 lbs/MMBtu	2.90
Number 1 BOP hot metal desulfurization baghouse	0.007 gr/dscf	15.0
Number 2 Q-BOP LMF numbers 1 and 2 material handling baghouse	0.007 gr/dscf	3.83
Number 2 Q-BOP LMF number 3 hot fume exhaust/material handling baghouse	0.0070 gr/dscf	2.70
Number 2 Q-BOP hot metal desulfurization baghouse	0.007 gr/dscf	13.0
Number 1 BOP gas cleaning system	0.011 gr/dscf	46.0 (total)
Number 2 Q-BOP gas cleaning system	0.0153 gr/dscf	44.40 (total)
TBBH boiler number 6	0.039 lbs/MMBtu	27.80
TBBH boiler numbers 1, 2, 3, and 5 when four boilers are operating	0.037 lbs/MMBtu	61.0 (total)
TBBH boiler numbers 1, 2, 3, and 5 when three boilers are operating	0.050 lbs/MMBtu	61.0 (total)
TBBH boiler numbers 1, 2, 3, and 5 when one or two boilers are operating	0.074 lbs/MMBtu	61.0 (total)
Number 2 Q-BOP north flux handling system baghouse	0.0070 gr/dscf	1.80
Number 2 Q-BOP south flux handling system baghouse	0.0070 gr/dscf	1.80
Number 2 Q-BOP secondary emissions baghouse	0.007 gr/dscf	27.0
Number 3 sinter plant S1/S2 baghouse	0.0100 gr/dscf	1.29
TBBH boiler number 4A	0.012 lbs/MMBtu	2.90
Number 14 blast furnace casthouse baghouse	0.0090 gr/dscf	38.57
Number 1 BOP Casbell/OB lancing baghouse	0.070 gr/dscf	5.10
Number 2 Q-BOP LMF number 1 hot fume exhaust baghouse	0.007 gr/dscf	5.1
Number 2 Q-BOP LMF number 2 hot fume exhaust baghouse	0.007 gr/dscf	5.1
Coke plant desulfurization facility tail gas incinerator	not applicable	0.13
Slab mill slab grinder baghouse	0.0100 gr/dscf	2.57
EGL boiler house	0.0033 lbs/MMBtu	0.13 (total)
Coke battery number 5/7 pushing emissions control baghouse	0.017 lb/ton coke produced	1.28
Number 2 Q-BOP RH-degasser slag conditioning baghouse	0.007 gr/dscf	5.49
Coke plant boiler house lime storage silo baghouse	0.030 gr/dscf	0.28
Plate mill heat treatment furnace	0.003 gr/dscf	0.096

(b) The following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:

Source	Opacity
Number 1 basic oxygen furnace iron desulfurization baghouse	5%, 3 minute average
Number 1 basic oxygen furnace roof monitor	20%, 3 minute average
Number 1 basic oxygen process gas cleaning (2 units)	20%, 6 minute average
Number 2 QBOP hot metal desulfurization baghouse	5%, 3 minute average
Number 2 QBOP gas cleaning	20%, 6 minute average
Number 2 QBOP roof monitor	20%, 3 minute average
Number 2 QBOP flue handling line baghouse	5%, 3 minute average
New 2 QBOP secondary baghouse	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 1	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 2	5%, 3 minute average

(c) The installation and operation of opacity continuous emissions monitors shall be conducted according to procedures specified in 326 IAC 3. Before December 10, 1993, the following facilities at U.S. Steel-Gary Works shall have a continuous emission monitor for opacity installed and operating:

(1) Coke battery underfire stacks at U.S. Steel-Gary Works.

(2) Numbers 2 and 3 precarbon building preheating and drying line exhaust gas precipitators (six (6) units). One (1) opacity continuous emission monitor shall be installed before December 10, 1993. The remaining five (5) opacity continuous emission monitors shall be installed before December 31, 1994. Based on an evaluation of the technical feasibility of operation of the first monitor on one (1) line, U.S. Steel-Gary Works may petition for a:

(A) one (1) year extension of the requirement to install the remaining five (5) monitors; or

(B) waiver for installation and operation of the six (6) opacity continuous emission monitors.

U.S. Steel-Gary Works shall include information on the moisture content of the gases and their effect on accurate opacity measurements as part of any such petition.

*(Air Pollution Control Division; 326 IAC 6.8-2-38; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3523; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

### **Rule 3. Lake County: Opacity Limits; Exceptions to 326 IAC 5-1-2**

#### **326 IAC 6.8-3-1 General provisions (Repealed)**

Sec. 1. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

#### **326 IAC 6.8-3-2 Inland Steel (Repealed)**

Sec. 2. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

#### **326 IAC 6.8-3-3 LTV Steel Corporation (Repealed)**

Sec. 3. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

#### **326 IAC 6.8-3-4 U.S. Steel-Gary Works (Repealed)**

Sec. 4. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

### **Rule 4. Lake County: Opacity Limits; Test Methods**

#### **326 IAC 6.8-4-1 Test methods**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. Test methods for 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8 shall be as follows:

(1) Emissions of PM<sub>10</sub> shall be measured by any of the following:

(A) 40 CFR 51, Appendix M, Method 201\*.

(B) 40 CFR 51, Appendix M, Method 201A\*.

(C) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3, or 4\*.

(2) Emissions for TSP and particulate matter shall be measured by the following methods:

(A) 40 CFR 60, Appendix A, Methods 5, 5A, 5D, 5E, or 17\*. Method 17 may not be used when the stack gas temperature exceeds two hundred forty-eight (248) degrees Fahrenheit. ( $\pm 25^{\circ}\text{F}$ ).

(B) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, or 4\*.

(3) Measurements of opacity shall be conducted in accordance with the following:

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (A) 40 CFR 60, Appendix A, Method 9\*, except for those sources where a three (3) minute averaging time is required.
- (B) Sources requiring a three (3) minute averaging time are subject to all parts of Method 9\* except the six (6) minute averaging provision. In these cases, the opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
- (4) Emissions of sulfuric acid mist shall be measured in accordance with 40 CFR 60, Appendix A, Method 8\*.
- (5) Compliance with the mass emission limits for the sinter plant windbox stacks at U.S. Steel-Gary Works in 326 IAC 6.8-2 shall be determined by the following:
  - (A) The simultaneous sampling and analysis of both noncondensibles (front half) and condensibles (back half) particulate matter.
  - (B) The quantity of noncondensibles particulate matter in the gas stream shall be determined in accordance with the procedures specified in 40 CFR 60, Appendix A, Method 5\*.
  - (C) The quantity of condensible particulate matter in the gas stream shall be determined in accordance with 40 CFR 51, Appendix M, Method 202\*, with the following modifications:
    - (i) A heated Method 5 out of stack filter shall be used instead of an in-stack filter.
    - (ii) The impinger system shall consist of five (5) impingers. The:
      - (AA) first three (3) impingers shall contain one hundred (100) milliliters of deionized water;
      - (BB) fourth shall be empty; and
      - (CC) fifth shall contain silica gel.
    - (iii) The first four (4) impingers shall be used to determine the quantity of condensible particulate emissions.
  - (D) Compliance shall be achieved if the:
    - (i) sum of the front half and the back half is less than or equal to the mass emission limit of one hundred (100) lbs/hr per stack; and
    - (ii) front half catch is less than or equal to the mass concentration limit of twenty-thousandths (0.020) gr/dscf in 326 IAC 6.8-2.

\*These documents are incorporated by reference and are available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-4-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3525; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

## **Rule 5. Lake County: Opacity Continuous Emissions Monitors**

### **326 IAC 6.8-5-1 Installation and operation of continuous emissions monitors (Repealed)**

Sec. 1. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

## **Rule 6. Lake County: Combustion Sources; Natural Gas**

### **326 IAC 6.8-6-1 General provisions (Repealed)**

Sec. 1. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

### **326 IAC 6.8-6-2 American Steel Foundry-Hammond (Repealed)**

Sec. 2. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

### **326 IAC 6.8-6-3 BP Products North America Inc. (Repealed)**

Sec. 3. (*Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-6-4 Cerestar USA, Incorporated (Repealed)**

Sec. 4. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-5 E.I. Dupont (Repealed)**

Sec. 5. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-6 Gatz-Gen Amer Trans (Repealed)**

Sec. 6. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-7 General Refractory (Repealed)**

Sec. 7. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-8 Hammond Group, Inc. (HGI) (Repealed)**

Sec. 8. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-9 Hammond Group, Inc.-Halstab Division (Repealed)**

Sec. 9. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-10 Inland Steel (Repealed)**

Sec. 10. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-11 Jupiter Aluminum Corporation (Advanced Aluminum Products) (Repealed)**

Sec. 11. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-12 LTV Steel Corporation (Repealed)**

Sec. 12. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-13 NIPSCO-Mitchell (Repealed)**

Sec. 13. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-14 Praxair (Repealed)**

Sec. 14. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-15 Silgan Containers Manufacturing Corporation (Repealed)**

Sec. 15. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-16 Smith Ready Mix (Repealed)**

Sec. 16. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-17 State Line Energy, LLC (Repealed)**

Sec. 17. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-18 Unilever HPC, USA (Repealed)**

Sec. 18. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-19 Union Tank Car Company (Repealed)**

Sec. 19. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-6-20 U.S. Gypsum Company (Repealed)**

Sec. 20. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**Rule 7. Lake County: Site-Specific Control Requirements**

**326 IAC 6.8-7-1 General provisions (Repealed)**

Sec. 1. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-2 American Steel Foundry-Hammond (Repealed)**

Sec. 2. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-3 Cerestar USA, Incorporated (Repealed)**

Sec. 3. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-4 Hammond Group, Inc. (HGI)-Halox Plant (Repealed)**

Sec. 4. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-5 Inland Steel (Repealed)**

Sec. 5. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-6 LTV Steel Corporation (Repealed)**

Sec. 6. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-7 NIPSCO-Mitchell (Repealed)**

Sec. 7. *(Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)*

**326 IAC 6.8-7-8 State Line Energy LLC (Repealed)**

Sec. 8. (Repealed by Air Pollution Control Division; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)

## **Rule 8. Lake County: Continuous Compliance Plan**

### **326 IAC 6.8-8-1 Applicability**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. The continuous compliance plan (CCP) for sources listed in subdivisions (1) through (18) shall contain information on the facilities included in 326 IAC 6.8-2. The following sources shall submit a CCP to the department by December 10, 1993:

- (1) ASF-Keystone, Inc.-Hammond.
- (2) BP Products North America, Inc.-Whiting Refinery.
- (3) Bucko Construction Company, Inc.
- (4) Cargill, Inc.
- (5) Hammond Group, Inc. (HGI), Halox Division, Lead Products Division, Hammond Expander Division, and Halstab Division.
- (6) Resco Products, Inc.
- (7) Mittal Steel-Indiana Harbor East Inc.
- (8) Mittal Steel-Indiana Harbor West Inc.
- (9) Carmeuse Lime Inc.
- (10) National Recovery Systems.
- (11) NIPSCo-Dean H. Mitchell Station.
- (12) Reed Minerals-Plant #14.
- (13) Rhodia, Inc.
- (14) State Line Energy LLC.
- (15) Conopco, Inc. d/b/a Unilever HPC USA.
- (16) United States Gypsum Company.
- (17) U.S. Steel-Gary Works.
- (18) A CCP shall also be submitted by any source in Lake County for facilities that meet the following conditions:
  - (A) Boilers with heat input capacity equal to or greater than twenty-five million (25,000,000) British thermal units per hour, singly or in combination, that vent through a single stack. Facilities, including boilers and reheat furnaces, configured to burn only natural gas, blast furnace gas, or coke oven gas, or a combination of these gases, are exempt.
  - (B) Facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM<sub>10</sub> emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM<sub>10</sub> emissions shall be estimated with "Compilation of Air Pollutant Emission Factors" Volume 1, Stationary Point and Area Sources, AP-42, Fifth Edition, January 1995\*, Supplements A through G, December 2000\* emission factors or other documentable emission factors acceptable to the commissioner and U.S. EPA.
  - (C) Each facility, not otherwise required to submit a CCP in accordance with this section with uncontrolled PM<sub>10</sub> or TSP emissions that may exceed one hundred (100) tons per year based on eight thousand seven hundred sixty (8,760) hours of operation and AP-42 emission factors or other documentable emission factors acceptable to the commissioner and U.S. EPA.

\*These documents are incorporated by reference and are available for purchase from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (Air Pollution Control Division; 326 IAC 6.8-8-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3533; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)

**326 IAC 6.8-8-2 Documentation; operation and maintenance procedures**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 2. The continuous compliance plan CCP shall contain, for the facilities specified in section 1 of this rule, documentation of operation and maintenance practices of process operations and any particulate matter control equipment existing or required to be installed, replaced, or improved by 326 IAC 6.8-7 that are essential to maintaining compliance with the mass and opacity limits specified in 326 IAC 5-1, 326 IAC 6.8-2, and 326 IAC 6.8-3. (*Air Pollution Control Division; 326 IAC 6.8-8-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3533*)

**326 IAC 6.8-8-3 Plan requirements**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 3. The continuous compliance plan (CCP) shall include the following:

- (1) A list of the processes and facilities at the source.
- (2) A list of the particulate matter control equipment associated with the processes and facilities listed in section 1 of this rule.
- (3) The process operating parameters critical to continuous compliance with the applicable PM<sub>10</sub> or TSP mass and opacity limits, including applicable specific requirements listed in section 5 of this rule.
- (4) The particulate matter control equipment operating parameters critical to continuous compliance with the applicable PM<sub>10</sub> or TSP mass and opacity including applicable requirements listed in section 6 of this rule.
- (5) The specific monitoring, recording, and record keeping procedures for process and control equipment for each facility in the CCP specified in subdivisions (1) and (2).
- (6) The procedure used to assure that adequate exhaust ventilation is maintained through each duct at facilities where emissions are captured by a collection hood and transported to a control device.

(*Air Pollution Control Division; 326 IAC 6.8-8-3; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3534*)

**326 IAC 6.8-8-4 Plan; schedule for complying with 326 IAC 6.8-7**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 4. A continuous compliance plan for a source to which 326 IAC 6.8-7 applies shall contain a schedule for complying with the requirements of 326 IAC 6.8-7. The schedule shall list specific compliance dates for the following actions:

- (1) Submittal of plans.
- (2) Start of construction.
- (3) Completion of construction.
- (4) Achieving compliance.
- (5) Performing compliance tests.
- (6) Submitting compliance test results.

(*Air Pollution Control Division; 326 IAC 6.8-8-4; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3534*)

**326 IAC 6.8-8-5 Plan; source categories**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11  
Affected: IC 13-15; IC 13-17

Sec. 5. A source or facility to which section 1 of this rule applies, which belongs to any source category listed in this section, shall include the following information, applicable procedures, or commit to the following actions in its continuous compliance plan (CCP):

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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(1) For lime plants, monitor opacity at the kilns and control system vents during normal operation of the kiln with a continuous emission monitor or through self-monitoring of opacity. 40 CFR 60, Appendix A, Method 9\* should be used to determine opacity if the facility is controlled by a positive pressure fabric filter.

(2) For petroleum refineries, continuously monitor opacity of exhaust gases and monitor the coke burn-off rate in pounds per hour from fluid catalytic cracking unit catalyst regenerators.

(3) Steel mill CCPs shall include, at a minimum, the following:

(A) Basic oxygen process (BOP, BOF, QBOP), including the following:

(i) Describe the capture and control devices to control particulate emissions from each phase of the steel production cycle, including the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.

(ii) Describe any fume suppression system, including the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(iii) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.

(iv) Describe the off-gas system leak detection and repair record keeping practices.

(v) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.

(vi) Describe practices that reduce PM<sub>10</sub> and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping slag.

(vii) At least monthly, inspect the operational status of the following elements of the capture system:

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) The hood and ductwork for the presence of holes.

(EE) Ductwork for accumulation of dust.

(FF) Fans for erosion.

Maintain records of the inspections and any repairs.

(B) Electric arc furnace, including the following:

(i) List the furnace operating sequences to be followed in case of multivessel operation. Describe the capture and control devices used to control particulate emissions in each phase of the steel production cycle, including exhaust rate and dampers, blast gates, instrumentation operation, and control. Include a drawing that shows the location of the following:

(AA) The furnace within the facility in relation to capture hoods and control devices, roof vents, and other building openings.

(BB) Other processes within the facility that have potential to generate emissions, including casting and ladle repair.

(ii) Describe the procedure for recording the following:

(AA) Time of furnace charging, furnace melting, and furnace refining.

(BB) Tapping start and stop times.

(CC) Charge weight for each heat.

(DD) Tap weight for each heat.

(iii) At least monthly, inspect the operational status of the following elements of the capture:

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.



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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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(EE) Ductwork for accumulation of dust.

(FF) Fans for erosion.

Maintain records of the inspections and any repairs.

(iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(v) Once per heat, either check and record the control system fan motor ampere and damper position or monitor flow rate through each separately ducted hood or duct, or both, used to capture emissions from the electric arc furnace operation.

(vi) Take visible emission readings of the direct shell evacuation system and the roof monitor at least once a day. The readings shall be taken during one (1) single steel production cycle and will be concurrent with the observations in 326 IAC 6.8-7-5(8)(C). The opacity observations shall be taken according to 40 CFR 60, Appendix A, Method 9\* and consist of at least one (1) six (6) minute observation each during charging and tapping and three (3) six (6) minute observations during melting and refining.

(vii) Report to the department on a quarterly basis control system fan motor amperage values that exceed fifteen percent (15%) of the value or operation at volumetric flow rates lower than those established during the performance test in 326 IAC 6.8-7-5(8)(A). Operation above these values may be considered as unacceptable operation of the electric arc furnace equipment and the emissions capture and control system by the commissioner, unless alternative values are established according to the procedures prescribed in section 1 of this rule.

(viii) Keep a record of any process and control equipment upsets, malfunctions, or activities within the electric arc furnace facility that may have resulted in excessive emissions. The records shall consist of the nature of event, time, and duration.

(C) Iron production that includes a blast furnace shall comply with the following:

(i) Describe procedures, including frequency, for inspection of the following elements of a capture system:

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.

Maintain records of the maintenance and any repairs made.

(ii) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(iii) Describe any fume suppression system, including the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. As used in this item "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(iv) Describe the record keeping for the following elements of the iron production cycle:

(AA) Time of hole drilling.

(BB) Time of tapping.

(CC) Time of hole plugging.

(v) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:

(AA) Tuyres.

(BB) Bleeder valves.

(CC) Large and small bells.

(DD) Uptakes and downcomers (to minimize backdrafting).

(EE) Standby devices.

(vi) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, such as dust catchers and scrubbing equipment, to assure operation within design parameters.

(D) Sinter production shall comply with the following:

(i) Describe routine startup and shutdown procedures and other work practices that are followed to reduce emissions and equipment malfunctions.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (ii) Describe procedures for inspection of equipment to identify areas that may affect particulate emissions, including the following:
    - (AA) Points of wear.
    - (BB) Distorted grate bars.
    - (CC) Leaking machine seals.
    - (DD) Holes in ducts.
    - (EE) Holes in flapper valves.
  - (iii) Describe procedures for monitoring mechanical and electrical inspection records.
  - (iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.
  - (v) Describe procedures for monitoring burden parameters, including base to acid ratio and hydrocarbon content.
  - (vi) Describe the routine for plant operation during equipment failure, such as screening station failure.
  - (vii) At least monthly, inspect the operational status of the following elements of the capture system:
    - (AA) Pressure sensors.
    - (BB) Dampers.
    - (CC) Damper switches.
    - (DD) Hood and ductwork for the presence of holes.
    - (EE) Ductwork for accumulation of dust.
    - (FF) Fans for erosion.
- Maintain records of the inspections and any repairs.
- (E) Coke production shall comply with the following:
- (i) Describe operating and maintenance practices used to minimize emissions from charging doors, charge port lids, offtakes, standpipes, gooseneck caps and gas collector mains, pushing, underfire stacks, and quenching, including quench water dissolved solids control. The documentation shall include the following operating practices:
    - (AA) Use of jumper pipe during charging.
    - (BB) Procedure for worker's coordination, training, and communication.
    - (CC) Luting material used.
    - (DD) Periodic engineering evaluations to determine improvements needed.
    - (EE) Aspiration practices during charging, including aspiration rate and adjustment.
  - (ii) Describe the routinely available inventory of spare parts and equipment, including luting compounds, doors, and mobile scrubber cars.
- (F) Waste disposal and recycling practices of iron and steel scrap and other metallic scrap shall comply with the following:
- (i) Provide a description of the routine activities involving disposal and reclamation of iron and steel. The visible emissions from such activities shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9\*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
  - (ii) Maintenance of process vessels, for example, pugh ladles, shall be performed in enclosed structures. The visible emissions from such structures shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9\*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
  - (iii) Emissions from all steel scrap burning or cutting and oxygen lancing operations shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9\*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
- (G) Visible emission evaluation plans shall comply with the following:
- (i) Within sixty (60) days of June 11, 1993, each steel mill shall submit a plan to conduct visible emissions evaluations per the approved test method or procedures to determine compliance with the applicable opacity standard. The plan shall specify the frequency of visible emissions evaluations at the operations included in

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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clauses (A) through (F). The plan shall include charging, pushing, lids and offtakes, doors, standpipes, and gas collector mains at coke production operations and lime plants.

(ii) If the plan specifies that the duration of readings is less than one (1) hour per day at each facility, the plan shall include the basis for less frequent evaluations.

(iii) The department shall disapprove the plan if:

(AA) it does not include all facilities; or

(BB) the proposed duration and frequency will not provide for a reasonable assessment of compliance.

(iv) Upon approval of a steel mill's plan by the department, the visible emissions evaluations shall commence and the data submitted to the department within one (1) month of the end of the calendar quarter.

(v) The plan may be revised with department approval at any time.

(4) Fuel combustion boilers, as described in section 1(21)(A) of this rule shall comply as follows:

(A) The requirements of this subdivision shall not relax the fuel monitoring and reporting requirements of 326 IAC 7-1.1-1 for the sources to which 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule apply.

(B) Affected sources shall maintain records of the following information:

(i) Operational status of each facility for each day.

(ii) The daily measurements for each facility of the type of fuel used, amount of each type of fuel used, and heat content of each type of fuel used.

(iii) The TSP or PM<sub>10</sub> emission factors for each type of fuel to be used as estimated by the AP-42 or stack test method.

(iv) The method used to monitor the fuel amount and heat content in addition to the frequency.

(v) The control efficiency of the particulate control device and the method of determination.

(vi) Average daily PM<sub>10</sub> emissions (or TSP if applicable) for each facility, expressed in pounds per million British thermal units.

(C) The following guidance may be used to estimate emissions:

(i) For heat content AP-42, Volume 1, Appendix A, Table A-3, "Typical Parameters of Various Fuels", Fifth Edition, January 1995\*\*, Supplements A through G, December 2000\*\*.

(ii) For emission factors (TSP or PM<sub>10</sub>), EPA 450/4-90-003, "AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants"\*.

(iii) For control equipment efficiency, manufacturer's warranty or as determined by source.

(iv) Sources may substitute other site-specific values for the values as indicated if they can be shown to be acceptable to the department.

\*These documents are incorporated by reference and are available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

\*\*This document is incorporated by reference and is available from U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-8-5; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3534*)

**326 IAC 6.8-8-6 Plan; particulate matter control equipment; operation and maintenance**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 6. This section concerns particulate matter control equipment operation and maintenance requirements. A continuous compliance plan shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:

(1) Startup, shutdown, and emergency shutdown procedures.

(2) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.

- (3) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.
- (4) Contents of the operator's training program and the frequency with which the training is held.
- (5) A list of spare parts available at the facility.
- (6) A list of control equipment safety devices, for example:
  - (A) high temperature sensors and alarm systems;
  - (B) exhaust gas stream bypass system; or
  - (C) safety interlock system.
- (7) Monitoring and recording devices or instruments, or both, to monitor and record control equipment operating parameters specified in section 3(4) of this rule.

*(Air Pollution Control Division; 326 IAC 6.8-8-6; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3537)*

**326 IAC 6.8-8-7 Plan; particulate matter control equipment; recording; operation; inspection**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 7. Particulate matter control equipment operation, recording, and inspection procedure requirements shall be as follows:

(1) A continuous compliance plan (CCP) for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of section 2 of this rule such as the following:

- (A) Operating parameters, such as the following:
  - (i) Pressure drop across the baghouse.
  - (ii) Gas flow rate at baghouse inlet.
  - (iii) Gas temperatures at inlet.

A CCP shall identify the monitors and instrumentation and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.

(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as the following:

- (i) Intensity.
- (ii) Duration.
- (iii) Frequency.
- (iv) Method of activation.

(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:

- (i) Daily inspections shall include the following:
  - (AA) Pressure drop.
  - (BB) Fan amperage.
  - (CC) Cleaning cycle.
  - (DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.
  - (EE) Dust discharge equipment for proper operation.
  - (FF) General check for abnormal audible and visual conditions.
- (ii) Weekly inspections of the following:
  - (AA) Moving parts on discharge system.
  - (BB) Bypass and isolation damper operation.
  - (CC) Bag tension.
  - (DD) Compressed air lines, oilers, and filters.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (EE) Manometer lines.
  - (FF) Temperature indicating equipment.
  - (GG) Bag cleaning sequence.
  - (HH) Drive components on fans.
  - (iii) Monthly inspections of the following:
    - (AA) Bag seating condition.
    - (BB) Moving parts on shaker baghouses.
    - (CC) Fan corrosion and blade wear.
    - (DD) Hoses and clamps.
    - (EE) Bags for leaks and holes.
    - (FF) Bag housing for corrosion.
  - (iv) Quarterly inspections of the following:
    - (AA) Bags.
    - (BB) Ducts for dust build-up.
    - (CC) Damper valves for proper setting.
    - (DD) Door gaskets.
    - (EE) Baffle plate for wear.
  - (v) Annual inspection of the following:
    - (AA) Welds and bolts.
    - (BB) Hoppers for wear.
    - (CC) Cleaning parts for wear.
- (2) A CCP for a facility controlled by an electrostatic precipitator (ESP) shall include recording, inspection, and maintenance procedures to be consistent with the requirements of section 2 of this rule, such as the following:
- (A) Operating parameters, such as the following:
    - (i) Gas flow rate.
    - (ii) Temperature.
    - (iii) Type and rate of gas conditioning agents used for resistivity control or resistivity measurements.
    - (iv) Power input at each section of the ESP. A CCP shall identify monitors and instrumentation and specify location, accuracy, precision, and calibration frequency. A continuous compliance plan shall also include a description of any visible emissions evaluation program.
  - (B) ESP inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:
    - (i) Daily inspection of the following:
      - (AA) Fan amperage.
      - (BB) Temperature.
      - (CC) Gas conditioning agent flow rate or resistivity.
      - (DD) Electrical readings for values outside the operating range.
      - (EE) Hoppers and dust discharge system for proper operation.
      - (FF) Transformer-rectifier enclosures and bus ducts for abnormal arcing.Corrective actions taken, if any, shall be recorded.
    - (ii) Weekly inspection of the following or as per manufacturer's recommendations:
      - (AA) Rapper operation.
      - (BB) Control set interiors.
    - (iii) Monthly inspection of the following:
      - (AA) Fans for noise and vibration.
      - (BB) Hopper heaters.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (CC) Hopper level alarm operation.
  - (iv) Quarterly inspection of the following:
    - (AA) Check rapper and vibrator switch contacts.
    - (BB) Access door dog bolt and hinges.
    - (CC) Interlock covers.
    - (DD) Test connectors.
    - (EE) Exterior for visual signs of deterioration.
    - (FF) Abnormal vibration, noise, and leaks.
  - (v) Semiannual inspection of the following or as per manufacturer's recommendations:
    - (AA) T-R liquid and surge arrestor spark gap.
    - (BB) Conduct internal inspection.
    - (CC) Top housing or insulator compartment and all electrical insulating surfaces and correct any defective alignment.
  - (vi) Annual inspection of the following:
    - (AA) Tightness of all electrical connections.
    - (BB) Operation of switchgear.
    - (CC) Rapper insulator connections.
    - (DD) Observe and record areas of corrosion.
- (3) A CCP for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of section 2 of this rule such as the following:
- (A) Operating parameters, such as the following:
    - (i) Gas flow rate.
    - (ii) Inlet and outlet temperatures of gas to and from scrubber.
    - (iii) Liquid flow rate to scrubber.
    - (iv) Pressure drop across scrubber.
    - (v) pH of liquid to scrubber.
    - (vi) Fan and pump currents.

A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.

(B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:

- (i) Daily inspection of the following:
  - (AA) Scrubbing liquid flow rates to scrubber.
  - (BB) Pressure drop across scrubber.
  - (CC) Fan and pump amperages for values outside the operating range.

Corrective actions taken shall be recorded.

- (ii) Monthly inspection of the following:
  - (AA) Seals for abrasion.
  - (BB) Corrosion and leaks.
  - (CC) Fans for abrasion, corrosion, and solids build-up.
  - (DD) Pipes for abrasion, corrosion, and plugging.
  - (EE) Throat wear in the venturi scrubber.
  - (FF) Sensors, alarm systems, and bypass devices for proper operation.
  - (GG) Entrainment separator for blockage.
  - (HH) Spray nozzles for plugging or excessive wear.

*(Air Pollution Control Division; 326 IAC 6.8-8-7; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3537)*

**326 IAC 6.8-8-8 Plan; department review**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 8. (a) The department shall review the continuous compliance plan (CCP). The department may at any time request, in writing, any of the following:

(1) A CCP to be revised to include additional documentation or practices as needed to allow the department to verify that operation and maintenance practices critical to continuous compliance with the applicable mass and opacity limits are being followed.

(2) A compliance test to be conducted with the compliance test methods specified in this 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule if the department determines that the procedures specified in the CCP are not being followed or are inadequate to assure continuous compliance. The compliance test may consist of a series of opacity measurements of frequency and duration specified by the department or a stack test. The department may request that information be collected during the test to determine proper operation and maintenance procedures needed to assure continuous compliance with applicable mass and opacity limits.

(b) The source shall respond, in writing, within thirty (30) days of a request per subsection (a). The source shall either provide an expeditious schedule, not to exceed sixty (60) days, for providing the information requested by the department or petition the department for an alternative to the request. A schedule for completion of an opacity compliance test shall not exceed thirty (30) days from the department's request. A source may petition the department for an alternative schedule based on practical problems in meeting the request.

(c) The source shall:

(1) update the CCP, as needed;

(2) retain a copy of any changes and updates to the CCP on the property;

(3) make the updated CCP available for inspection by the department; and

(4) submit the updated CCP, if required, to the department within thirty (30) days of the update.

(d) Failure to submit a CCP, maintain all information required by the continuous compliance plan on plant property, or submit a required update to a continuous compliance plan is a violation of 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule. Failure to respond to a request by the department under subsection (a) is a violation of 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule. The department may notify a source in writing of noncompliance with an action or procedure specified within a CCP and require that the source conduct a compliance test. If the compliance test demonstrates noncompliance with the applicable particulate matter or opacity limit, both the findings of noncompliance of the CCP and the compliance test shall be considered as violations of the applicable mass or opacity limit. A violation of an applicable particulate matter or opacity limit of 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule based either on a compliance test performed by the source or by observations or tests conducted by the department, is a violation of 326 IAC 6.8-2 through 326 IAC 6.8-7 and this rule. (*Air Pollution Control Division; 326 IAC 6.8-8-8; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3539*)

**Rule 9. Lake County: PM<sub>10</sub> Coke Battery Emission Requirements**

**326 IAC 6.8-9-1 Applicability**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. The provisions of this rule shall apply to those sources located in Lake County that include a coke battery. (*Air Pollution Control Division; 326 IAC 6.8-9-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3539*)

**326 IAC 6.8-9-2 Definitions**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 2. The following definitions shall apply throughout this rule:

- (1) "Charging" has the meaning set forth in 326 IAC 1-2-10.
- (2) "Charge port" has the meaning set forth in 326 IAC 1-2-11.
- (3) "Coke oven battery" has the meaning set forth in 326 IAC 1-2-16.
- (4) "Coke oven topside" has the meaning set forth in 326 IAC 1-2-17.
- (5) "Coke-side" has the meaning set forth in 326 IAC 1-2-18.
- (6) "Gas collector main" has the meaning set forth in 326 IAC 1-2-31.
- (7) "Gooseneck cap" has the meaning set forth in 326 IAC 1-2-32.1.
- (8) "Jumper pipe" has the meaning set forth in 326 IAC 1-2-34.1.
- (9) "Larry car" has the meaning set forth in 326 IAC 1-2-35.
- (10) "Offtake piping" has the meaning set forth in 326 IAC 1-2-49.
- (11) "Oven door" has the meaning set forth in 326 IAC 1-2-50.
- (12) "Pushing" has the meaning set forth in 326 IAC 1-2-60.
- (13) "Push-side" has the meaning set forth in 326 IAC 1-2-61.
- (14) "Quench car" has the meaning set forth in 326 IAC 1-2-62.1.
- (15) "Quenching" has the meaning set forth in 326 IAC 1-2-63.
- (16) "Quench reservoir" has the meaning set forth in 326 IAC 1-2-63.1.
- (17) "Quench tower" has the meaning set forth in 326 IAC 1-2-63.2.
- (18) "Standpipe lid" has the meaning set forth in 326 IAC 1-2-77.
- (19) "Underfire" has the meaning set forth in 326 IAC 1-2-87.

*(Air Pollution Control Division; 326 IAC 6.8-9-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3539)*

### **326 IAC 6.8-9-3 Emission limitations**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 3. With the exceptions noted in this section, the coke batteries in Lake County shall comply with the following emission limits by December 10, 1993:

- (1) Single-pass cap for oven door emissions. No visible emissions shall be permitted from more than ten percent (10%) of the observed coke oven doors on any coke oven battery. The number of coke-side doors and push-side doors shall be counted in determining compliance with this emission limit. Doors of ovens that are out of service, either temporarily or permanently, shall not be counted. A push door and a chuck door shall be counted as one (1) door. Compliance with this emission limit shall be determined in accordance with the procedure described in 326 IAC 11-3-4(c).
- (2) Charging emissions. No visible emissions shall be permitted from the charging system for more than a cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods. For the purpose of this subdivision, "charging system" means the equipment required to add coal to a coke battery. This includes:
  - (A) a larry car;
  - (B) charge ports;
  - (C) jumper pipe; and
  - (D) offtake pipe.

Compliance with this emission limit shall be determined in accordance with the procedure contained in 326 IAC 11-3-4(a).

- (3) Pushing emissions. The following emission limits shall apply during pushing operations:
  - (A) The opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins, shall not exceed twenty percent (20%). The opacity shall be determined on an instantaneous basis at the top of the battery. The observer shall be positioned outside of the quench car rails.
  - (B) The opacity of emissions during the pushing operation shall not exceed twenty percent (20%). The pushing operation shall be considered to:
    - (i) begin with the first movement of coke from the oven into the coke car; and
    - (ii) end when the quench car enters the quench tower.



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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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The opacity shall be determined using 40 CFR 60, Appendix A, Method 9\*, except that the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

(C) The particulate emissions from the control device stack shall not exceed four-hundredths (0.04) pound per ton of coke pushed. Compliance with this emission limit shall be determined by 40 CFR 60, Appendix A, Method 5\*.

(4) Charge port lid emissions. No visible emissions shall be permitted from more than three percent (3%) of the total charge port lids on operating ovens of a coke oven battery. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(b).

(5) Offtake piping emissions. No visible emissions shall be permitted from more than five percent (5%) of the total offtake piping on any coke oven battery. At no time shall the visible emissions from any gooseneck cap opening exceed twenty percent (20%). An exclusion from this opacity limit shall be allowed for two (2) minutes after a gooseneck cap is opened. The opacity shall be determined on an instantaneous basis. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(b).

(6) Gas collector main emissions. No visible emissions shall be permitted from the gas collector main. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(e). Caps on the main shall be exempt from this requirement during maintenance.

(7) Quenching emissions at U.S. Steel-Gary Works. At a minimum, the following procedures and practices shall be followed:

(A) The quench water, as applied to the coke, shall not exceed one thousand five hundred (1,500) milligrams per liter dissolved solids.

(B) A source shall submit the following information regarding its quenching operation in its CCP required to be submitted by 326 IAC 6.8-8-1:

(i) The source of quench water, for example, Lake Michigan water only, or a mixture of Lake Michigan water, spent quench water, process water, and miscellaneous sources of nonprocess water.

(ii) The volume of quench water and the proportion of each source of water.

(C) All coke oven towers shall be equipped with baffles. Baffles shall cover ninety-five percent (95%) or more of the cross-sectional area of the exhaust vent or stack for straight quench towers and must be maintained in operable condition. For offset quench towers numbers 2 and 3 at U.S. Steel-Gary Works, the number and arrangement of baffles in the tower shall be maintained as designed. The source shall submit quench tower drawings showing baffle arrangement to the department and the U.S. EPA on or before December 10, 1993. Compliance with the quench tower baffle requirement shall be determined by comparison of the number and arrangement of baffles with the submitted plans.

(8) Underfire emissions requirements shall be as follows:

(A) Particulate emissions from underfire stacks shall be limited by the emission limitations contained in 326 IAC 6.8-2.

(B) Visible emissions from underfire stacks shall comply with the requirements set forth in 326 IAC 5-1-2.

(9) Precarbonization emissions requirements shall be as follows:

(A) Particulate emissions from precarbonization towers shall be limited by the emission limitations contained in 326 IAC 6.8-2.

(B) Visible emissions from precarbonization towers shall comply with the requirements set forth in 326 IAC 5.

\*This document is incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-9-3; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3540; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

## **Rule 10. Lake County: Fugitive Particulate Matter**

**326 IAC 6.8-10-1 Applicability**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. (a) This rule applies to the following:

(1) The following facilities and operations at a source having the potential to emit five (5) tons per year fugitive particulate matter into the atmosphere in Lake County:

- (A) Paved roads and parking lots.
- (B) Unpaved roads and parking lots.
- (C) Material transfer.
- (D) Wind erosion from storage piles and exposed areas.
- (E) Material transportation activities.
- (F) Material processing facilities with capacity equal to or greater than ten (10) tons per hour. The mass and opacity limits for emissions in this rule are not applicable to such facilities specifically listed in 326 IAC 6.8-2, 326 IAC 6.8-4, 326 IAC 6.8-5, and 326 IAC 6.8-8. However, fugitive emissions from such facilities are subject to this rule.
- (G) Dust handling equipment.
- (H) Any other facility or operation with a potential to emit fugitive particulate matter and not included in this section.

(2) The following sources located in Lake County:

- (A) BP Products North America, Inc.-Whiting Refinery.
- (B) Beemsterboer Slag & Ballast Corporation.
- (C) Bucko Construction Company, Inc.
- (D) Dietrich Industries.
- (E) Buckeye Terminals, LLC.
- (F) General Transportation.
- (G) Great Lakes Industrial Center.
- (H) OmniSource-Chicago Division.
- (I) ISG Burns Harbor LLC/Mittal Steel USA.
- (J) ISG-Indiana Harbor Inc.
- (K) Carmeuse Lime Inc.
- (L) Superior Carriers, Inc. X-Rail.
- (M) Mid Continental Coal & Coke Company.
- (N) NIPSCo-Dean H. Mitchell Station.
- (O) Ozinga Brothers.
- (P) Praxair, Linde SP Gas and Praxair, Oxygen Plant.
- (Q) Reed Minerals-Plant #14.
- (R) Safety-Kleen Corporation.
- (S) State Line Energy, LLC.
- (T) Union Tank Car Co.
- (U) U.S. Steel-Gary Works.
- (V) Wolf Lake Terminal.

(3) New sources required to be registered or permitted under 326 IAC 2-5.1 with total uncontrolled PM<sub>10</sub> fugitive particulate matter emissions equal to or greater than five (5) tons per year.

(4) The independent contractors, companies, and corporations performing byproduct processing recycling activities, waste disposal, or any other activities that may result in uncontrolled PM<sub>10</sub> emissions of five (5) tons per year or more.

(5) Any subsequent owner or operator of a source or facility covered by this section.

(b) The amount of uncontrolled PM<sub>10</sub> emissions emitted from a facility or source shall be determined for the purposes of this rule by applying the method contained in "Compilation of Air Pollutant Emission Factors", Volume 1: Stationary Point and Area Sources, AP-42 Fifth Edition, January 1995\*, Supplements A through G, December 2000\*\*.

\* / \*\*These documents are incorporated by reference and are available from the Government Printing Office, 732 Capitol

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-10-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3541; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA*)

**326 IAC 6.8-10-2 Definitions**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 2. The following definitions apply throughout this rule:

- (1) "Affected facilities" means the sources of fugitive emissions listed in section 1(a) of this rule.
- (2) "Batch transfer" means transfer of material onto or out of storage piles by front end loaders, trucks, or cranes.
- (3) "Capacity" means the sum of all throughputs to the first introduction point of all the processing lines on a plant property.
- (4) "Capture system" means the equipment used to capture and transport particulate matter generated by one (1) or more process equipment to a control device, including the following:
  - (A) Enclosures.
  - (B) Hoods.
  - (C) Ducts.
  - (D) Fans.
  - (E) Dampers.
- (5) "Continuous transfer" means transfer of material onto or out of storage piles by conveyor.
- (6) "Control device" means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere.
- (7) "Dust handling equipment" means the equipment used to handle dust collected by control equipment, such as, but not limited to, a conveyor used to transfer dust from a control equipment hopper to a temporary storage container. A truck is an example of a temporary storage container. Both a conveyor and temporary storage container, in this case, are dust handling equipment.
- (8) "Exposed areas" means unused areas on plant property that cannot be defined as a paved or unpaved road or parking lot, storage pile, or associated area that have the potential to emit particulate emissions by wind action.
- (9) "Fugitive particulate matter" means any particulate matter emitted into the atmosphere other than through a stack.
- (10) "Inplant transportation" means transportation of material on plant transportation routes, such as railroads and plant roads, in equipment such as trucks, railroad cars, front end loaders, conveyors, and skip hoists. The inplant transportation might be from:
  - (A) one (1) process to another;
  - (B) process equipment to waste disposal and reclamation sites; or
  - (C) one (1) storage pile to another.

This includes, for example, hauling of slag from slag pits to the slag processing facility on the plant property.

- (11) "Material" means raw process material, byproduct, intermediate product, waste product, final product, and dust collected by control equipment, having proportion of loose, dry dust equal to or greater than five-tenths percent (0.5%) as measured by the ASTM C-136 method\*, having potential to emit particulate emissions when disturbed by transfer, processing, and transportation activities defined in this rule. Material may include the following:
  - (A) Sand.
  - (B) Limestone.
  - (C) Coal.
  - (D) Gypsum.
  - (E) Slag.
  - (F) Gravel.
  - (G) Clay.
  - (H) Cement.

- (I) Ores.
- (J) Grain.

(12) "Material processing facilities" means the equipment, or the combination of different types of equipment, used to process material for use in the plant or for commercial sale. The following sources are examples of these types of facilities:

- (A) Power generation plants.
- (B) Portland cement manufacturing plants.
- (C) Asphalt concrete manufacturing plants.
- (D) Concrete manufacturing plants.
- (E) Lime manufacturing plants.
- (F) Iron and steel manufacturing plants, which include blast furnaces and basic oxygen furnaces.
- (G) Sinter plants.
- (H) Coal and coke preparation plants.
- (I) Slag processing plants.
- (J) Brick manufacturing plants.
- (K) Grain processing elevators.
- (L) Food and feed manufacturing plants.

Equipment includes initial crusher, screen, grinder, mixer, dryer, belt conveyor, bucket elevator, bagging operation, storage bin, and truck or railroad car loading station.

(13) "Material transfer" means the transfer of material:

- (A) from process equipment onto the ground;
- (B) from the ground into hauling equipment;
- (C) from hauling equipment onto a storage pile;
- (D) from a storage pile into hauling equipment for transport; or
- (E) into an initial hopper for further processing.

Dumping of slag from blast furnaces or basic oxygen furnaces into the slag pits and subsequent transfer to the hauling vehicle and initial hopper at the slag processing facility is an example of material transfer.

(14) "Paved road" means an asphalt or concrete surfaced thoroughfare or right-of-way designed or used for vehicular traffic.

(15) "Processing line" means material processing equipment connected by a conveying system. The term does not include transfer from a conveyor to a storage pile.

(16) "Silt content" means the mass of an aggregate sample smaller than seventy-five (75) microns in diameter as determined by dry sieving. Silt content may be determined by using the procedures in AP-42 "Silt Analysis" Appendix C.2.3, Fifth Edition, January 1995\*\*, Supplements A through G, December 2000\*\*\*.

(17) "Stack emissions" means the particulate matter that is released to the atmosphere from a confined opening like the exit of a control device or a chimney.

(18) "Storage pile" means any outdoor storage on a source's property of material as defined in subdivision (11).

(19) "Surface silt loading" means the mass of loose surface dust on a paved road, per length of road, as determined by dry vacuuming. Surface silt loading may be determined by using the procedures specified in the U.S. EPA guideline document "Iron and Steel Plant Open Source Fugitive Emission Evaluation", U.S. EPA 600/2-79-103, Appendix B\*\*\*\*.

(20) "Transfer point" means a point in a conveying operation where the material is transferred to or from a belt conveyor, except where the material is being transferred to a storage pile.

(21) "Unpaved road" means a thoroughfare or right-of-way other than a paved road designed or used for vehicular traffic.

(22) "Vent" means an opening through which there is mechanically induced airflow for the purpose of exhausting air carrying particulate matter emissions from one (1) or more items of material processing equipment from a building.

\*These documents are incorporated by reference and are available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

\*\* / \*\*\*These documents are incorporated by reference and are available for purchase from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue,

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Indianapolis, Indiana 46204.

\*\*\*These documents are incorporated by reference and are available from U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or are available for review and copying from the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-10-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3542*)

**326 IAC 6.8-10-3 Particulate matter emission limitations**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 3. The following are particulate matter emission limitations:

(1) For paved roads and parking lots, the average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%). A source shall implement the control measures specified by section 4(3)(F) of this rule within twenty-four (24) hours after notification by the department or the U.S. EPA of violating the average instantaneous opacity limit. A violation of the instantaneous average opacity limits in this section is a violation of this article. In addition, when requested by the department or the U.S. EPA after an exceedance of the opacity limit is observed by a representative of either agency, the source shall initiate a compliance check with the surface silt loading limit. The department may require a revision of the control plan under section 4(8) of this rule if the test shows an exceedance of the surface silt loading limit. The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

(A) The first will be taken at the time of emission generation.

(B) The second will be taken five (5) seconds later.

(C) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(2) Unpaved roads and parking lots. The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%). The department may request a revision of the control plan under section 4(8) of this rule if an observation shows an exceedance of the average instantaneous opacity limit. This revision may be instead of, or in addition to, pursuing an enforcement action for a violation of the limit. Average instantaneous opacity shall be determined according to the procedure described in subdivision (1). The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the control plan required in section 4 of this rule.

(3) Material transfer limits shall be as follows:

(A) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

(B) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average. This includes material transfer to the initial hopper of a material processing facility as defined in section 2 of this rule or material transfer for transportation within or outside the source property including, but not limited to, the following:

(i) Transfer of slag product for use by asphalt plants from a:

(AA) storage pile to a front end loader; and

(BB) front end loader to a truck.

(ii) Transfer of sinter blend for use at the sinter plant from a:

(AA) storage pile to a front end loader;

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (BB) front end loader to a truck; and
  - (CC) truck to the initial processing point.
  - (iii) Transfer of coal for use at a coal processing line from a:
    - (AA) storage pile to a front end loader; and
    - (BB) front end loader to the initial hopper of a coal processing line.
- Compliance with any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.
- (C) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
- (i) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
  - (ii) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in subdivision (9).
- (4) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9\*. The opacity readings shall be taken at least four (4) feet from the point of origin.
- (5) Wind erosion from storage piles and exposed areas. The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. These limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9\*, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9\*.
- (6) Material transportation activities shall include the following:
- (A) There shall be a zero percent (0%) frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the inplant transportation requirement. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22\*, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car.
  - (B) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%). Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:
    - (i) The first will be taken at the time of emission generation.
    - (ii) The second will be taken five (5) seconds later.
    - (iii) The third will be taken five (5) seconds later or ten (10) seconds after the first.
- The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.
- (7) Material processing facilities shall include the following:
- (A) The PM<sub>10</sub> stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration limitation shall be determined using the test methods found in 326 IAC 6.8-4. Compliance with the opacity limitation shall be determined by 40 CFR 60, Appendix A, Method 9\*.
  - (B) The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9\*.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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(C) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9\*.

(D) There shall be a zero percent (0%) frequency of visible emission observations from a building enclosing all or a part of the material processing equipment except from a vent in the building. Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 22\*.

(E) The PM<sub>10</sub> emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration standard shall be determined by 40 CFR 60, Appendix A, Method 5 or 17, and with the opacity standard by 40 CFR 60, Appendix A, Method 9\*.

(8) Dust handling equipment. The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%). Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9\*.

(9) Any facility or operation not specified in this section shall meet a twenty percent (20%), three (3) minute opacity standard. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9\*, except that the opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals. Compliance of any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.

\*These documents are incorporated by reference and are available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-10-3; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3543*)

**326 IAC 6.8-10-4 Compliance requirements; control plans**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 4. Control plans shall include the following:

(1) Within six (6) months of June 11, 1993, a source to which this rule applies shall submit a control plan that, when fully implemented, will achieve compliance with the applicable emission limitations stated in section 3 of this rule. Failure to submit a control plan in accordance with this rule shall be considered a violation of this article. A control plan shall also be included as part of a construction permit application under 326 IAC 2-5.1.

(2) A control plan, upon submittal to the department, shall become part of a source's operating permit or registration conditions.

(3) The following information:

(A) The name and address of the following:

(i) The source and location, if the source is located on another source's property.

(ii) If different from that of the source, the owner or operator responsible for the execution of the plan.

(B) Identification of the facilities or operations listed in section 1(a)(1) of this rule and those affected by 326 IAC 6.8-2 through 326 IAC 6.8-7 that exist at the source.

(C) A map showing the location of all of the following:

(i) Unpaved roads.

(ii) Paved roads.

(iii) Parking lots.

(iv) Storage piles.

(v) Material processing facilities.

(vi) Dust handling equipment.

(vii) Material transfer points.

(viii) Waste disposal and reclamation sites.

(D) A full description of the facilities on the map, including the following information, where applicable:

(i) The road lengths and widths, average daily traffic, surface silt loading, classification of vehicle traffic, and other data necessary to estimate PM<sub>10</sub> emissions from paved and unpaved roads and parking lots.

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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- (ii) A description of each storage pile, including the following:
    - (AA) The type of material in the pile.
    - (BB) Its moisture content.
    - (CC) The silt content.
    - (DD) The throughput.
    - (EE) The equipment used to load onto and load out of the storage piles.
  - (iii) A complete description of the material processing facilities on the plant property, including the following:
    - (AA) A material flow diagram of the processing lines.
    - (BB) The rated capacity of each piece of equipment.
    - (CC) The existing control equipment and their efficiencies, including the process equipment served.
  - (iv) A complete description of the material transfer, inplant transportation, and dust handling equipment. Material transfer operations shall include, at a minimum, those operations contained in section 2(13) of this rule.
  - (v) A complete description of all other fugitive particulate matter emitting facilities not covered in this clause.
- (E) The description of the proposed control measures and practices that the source will employ to achieve compliance with the emission limitations and data that prove its effectiveness.
- (F) A list of the conditions that will prevent control measures and practices from being applied and alternative control practices and measures that will achieve compliance with the emission limitations.
- (G) A schedule for achieving compliance with the provisions of the control plan. The schedule shall specify the time required to:
- (i) award necessary contracts; and
  - (ii) begin and complete construction and installation.

Final compliance shall be achieved no later than December 10, 1993.

- (4) The source shall keep the following documentation to show compliance with each of its control measures and control practices:
- (A) A map or diagram showing the location of all emission sources controlled, including the:
    - (i) location;
    - (ii) identification;
    - (iii) length; and
    - (iv) width of roadways.
  - (B) For each application of water or chemical solution to roadways, the following shall be recorded:
    - (i) The name and location of the roadway controlled.
    - (ii) Application rate.
    - (iii) The time of each application.
    - (iv) The width of each application.
    - (v) The identification of each method of application.
    - (vi) The total quantity of water or chemical used for each application.
    - (vii) For each application of chemical solution, the concentration and identity of the chemical.
    - (viii) The material data safety sheets for each chemical.
  - (C) For application of physical or chemical control agents not covered by clause (B), the following:
    - (i) The name of the agent.
    - (ii) The location of application.
    - (iii) The application rate.
    - (iv) The total quantity of agent used.
    - (v) If diluted, the percent of concentration.
    - (vi) The material data safety sheets for each chemical.
  - (D) A log recording incidents when control measures were not used and a statement of explanation.
  - (E) Copies of all records required by this rule shall be submitted to the department within twenty (20) working days of a written request by the department.



- (F) The records required under this subdivision shall be:
  - (i) kept and maintained for at least three (3) years; and
  - (ii) available for inspection and copying by department representatives during working hours.
- (G) A quarterly report shall be submitted to the department stating the following:
  - (i) The dates any required control measures were not implemented.
  - (ii) A listing of those control measures.
  - (iii) The reasons that the control measures were not implemented.
  - (iv) Any corrective action taken.

This report shall be submitted to the department thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.

(5) A source shall consult "Compilation of Air Pollutant Emission Factors", Volume 1: Stationary Point and Area Sources, AP-42 Fifth Edition, January 1995\*, Supplements A through G, December 2000\*\* and Control of Open Sources of Fugitive Dust, U.S. EPA, September 1988\*\* to determine the following:

- (A) The information needed.
- (B) The effectiveness of the applicable control practices and measures.

(6) A source listed under section 1(a)(2) of this rule shall be exempt from this rule if it can demonstrate to the department that its uncontrolled PM<sub>10</sub> emissions are less than five (5) tons per year. An exemption must be approved by both the department and by the U.S. EPA as a revision to the state implementation plan.

(7) The evaluation of a control plan by the department and U.S. EPA or a request for exemption from the requirement to submit a control plan shall be based on the following criteria:

- (A) The completeness of the description of the affected facilities located on the plant property.
- (B) The accuracy of the methods and procedures used to determine the applicability of the rule.
- (C) The completeness of the description of control measures and practices proposed by the source and any alternative control measures, and the accuracy of the data and calculations that document compliance with the emission limitations.
- (D) The completeness of the data recording protocol for determining compliance with the control measures and practices.

(8) The department may require that a source revise its control plan if either of the following apply:

- (A) A test of surface silt loading on a paved road shows that the loading is greater than one hundred (100) pounds per mile averaged over five (5) roads or five (5) road sections. The surface silt loading shall be determined using the sampling and analysis procedures in the U.S. EPA guidance document EPA 600/2-79-103, "Iron and Steel Plant Open Source Fugitive Emission Evaluation", Appendix B\*\*\*.
- (B) The department's evaluation under subdivision (7) determines that the requirements of the control plan have not been met.

\* / \*\*These documents are incorporated by reference and are available for purchase from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

\*\*\*This document is incorporated by reference and is available from U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or is available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-10-4; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3545*)

## **Rule 11. Lake County: Particulate Matter Contingency Measures**

### **326 IAC 6.8-11-1 Applicability**

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-15; IC 13-17

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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Sec. 1. This rule shall apply to the following sources of PM<sub>10</sub> emissions located in Lake County:

- (1) Any source listed in 326 IAC 6.8-2.
- (2) All sources of fugitive particulate emissions to which 326 IAC 6.8-10-1(a) applies.
- (3) Any source that is identified by the department in a culpability study as causing or contributing to an exceedance or violation of the PM<sub>10</sub> standard.
- (4) Any other source with potential PM<sub>10</sub> emissions equal to or greater than ten (10) tons per year.

*(Air Pollution Control Division; 326 IAC 6.8-11-1; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3547)*

**326 IAC 6.8-11-2 "Ambient monitoring data" defined**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 2. As used in this rule, "ambient monitoring data" means data that has been:

- (1) collected in accordance with 40 CFR 58\*; and
- (2) verified by the department as quality assured in accordance with quality assurance procedures.

\*This document is incorporated by reference and is available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or is available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.  
*(Air Pollution Control Division; 326 IAC 6.8-11-2; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3547)*

**326 IAC 6.8-11-3 Exceedances**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 3. (a) If the department's review of ambient monitoring data from Lake County by the department reveals an exceedance of the twenty-four (24) hour ambient air quality standard for PM<sub>10</sub>, the department shall undertake a culpability study to determine the source or sources causing or contributing to the exceedance. An exceedance means a daily value that is above the level of the twenty-four (24) hour standard after rounding to the nearest ten (10) micrograms per cubic meter. In determining whether a source has caused or contributed to an exceedance of the twenty-four (24) hour ambient air quality standard for PM<sub>10</sub>, the department shall take whatever steps as are necessary to determine which source or sources are culpable for the exceedance, including, but not limited to, the following:

- (1) Evaluating whether the exceedance should be classified as an exceptional event under "Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events, EPA 450/4-88-007\*".
  - (2) Reviewing operating records of the source or sources identified under subdivisions (3) and (4) to determine whether any source or sources so identified experienced a malfunction or breakdown or violated any term or condition of its operating permit or applicable rule that contributed to the exceedance.
  - (3) Evaluating the monitoring equipment filter evidencing the exceedance to determine the type of source or sources that contributed to the exceedance.
  - (4) Evaluating meteorological data and conducting dispersion analyses under the "Guideline on Air Quality Models, Appendix W of 40 CFR Part 51", EPA 450/2-78-027R\* to determine which source or sources caused or contributed to the exceedance, as needed.
- (b) If the department determines that an exceedance can be classified as an exceptional event, the department shall make no request upon any source for voluntary controls.
- (c) If the department determines that an exceedance would not have occurred except for a malfunction or violation of:
- (1) any term or condition of a source's operating permit; or
  - (2) a rule adopted by the board;

the department shall pursue enforcement or other appropriate action and shall make no request upon any source under the provisions of this article.

- (d) Following any exceedance of the twenty-four (24) hour ambient air quality standard for PM<sub>10</sub> and upon completion of

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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the culpability study described in section 3 of this rule, the department shall notify the source or sources that the department has identified as likely to have caused or contributed to the exceedance and request that the source or sources voluntarily implement controls that will reduce the source's PM<sub>10</sub> emissions by fifteen percent (15%). The department's notification shall include the results of the culpability study. The department shall request a reduction less than fifteen percent (15%) if the culpability study demonstrates that a lesser percent reduction would ensure that no further exceedance will occur under the same circumstances. If the department determines that a single facility at a source caused or significantly contributed to the exceedance, then the department will request that voluntary reductions be implemented only at the specific facility.

\*These documents are incorporated by reference and are available from U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or are available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-11-3; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3547*)

**326 IAC 6.8-11-4 Violation of 24-hour standard**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 4. (a) If there is a violation of the twenty-four (24) hour ambient air quality standard for PM<sub>10</sub>, as determined in accordance with 40 CFR 50, Appendix K\*, and before a finding of failure to attain by the administrator of U.S. EPA, the department shall conduct a comprehensive culpability study as described in section 3(a) of this rule for each occurrence that contributed to the violation. Upon completion of the culpability study, the department shall notify the following sources:

(1) Any source whose total source-wide PM<sub>10</sub> emissions contributed more than twenty-five (25) micrograms per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation.

(2) Any source where a specific facility at the source contributed more than five (5) micrograms per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation.

The department's notification shall include the results of the culpability study.

(b) Within forty-five (45) days of receipt of the notification under subsection (a), the source or sources shall submit to the department the following information:

(1) Any source whose total source-wide PM<sub>10</sub> emissions contributed more than twenty-five (25) micrograms per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation shall submit reduction measures that will reduce the source's actual source-wide PM<sub>10</sub> emissions by twenty-five percent (25%). A source may substitute other proposed actual emission reductions upon a demonstration that the ambient air quality impact will be equivalent or greater than a source-wide twenty-five percent (25%) reduction.

(2) Any source where a specific facility at the source contributed more than five (5) micrograms per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation shall submit reduction measures that will reduce the facility's actual emissions by twenty-five percent (25%). A source may substitute other proposed actual emission reductions upon a demonstration that the ambient air quality impact will be equivalent or greater than a facility-wide twenty-five percent (25%) reduction.

If the culpability study demonstrates that a percent less than twenty-five percent (25%) would ensure that no further violation of the twenty-four (24) hour PM<sub>10</sub> standard will occur, under the same circumstances, the department will specify what percent reduction will be required to ensure that no further violations occur.

(c) A source may, instead of the information required in subsection (b), submit an analysis that determines that the source's contribution to the violation twenty-five (25) micrograms per cubic meter or less or, in the case of a facility, five (5) micrograms per cubic meter or less. After reviewing this information, the department shall determine whether the source shall comply with the emission reduction required in subsection (b). The department's decision is subject to IC 4-21.5.

\*This document is incorporated by reference and is available from the Government Printing Office, 732 North Capitol NW, Washington, D.C. 20401 or is available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-11-4; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3548*)

**326 IAC 6.8-11-5 Violation of annual standard**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 5. If there is a violation of the annual ambient air quality standard for PM<sub>10</sub> as determined in accordance with 40 CFR 50, Appendix K\*, and before a finding of failure to attain by the administrator of the U.S. EPA, the department shall conduct a comprehensive culpability study as described in section 3 of this rule for each occurrence that caused or contributed to the violation. Upon completion of the culpability study, the department shall notify the following sources:

(1) Any source whose total source-wide PM<sub>10</sub> emissions contributed more than five (5) micrograms per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation.

(2) Any source where a specific facility at the source contributed more than one (1) microgram per cubic meter to the total concentration at the sampling site on any of the sampling days that contributed to the violation.

The department's notification shall include the results of the culpability study.

\*This document is incorporated by reference and is available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or is available for review and copying at the Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 6.8-11-5; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3548*)

**326 IAC 6.8-11-6 Reduction measures**

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 6. (a) Within forty-five (45) days of receipt of the notification under section 5 of this rule, the source or sources shall submit to the department the following information:

(1) Any source whose total source-wide PM<sub>10</sub> emissions contributed more than five (5) micrograms per cubic meter to the total concentrations at the sampling site on any of the sampling days that contributed to the violation shall submit reduction measures that will reduce the source's actual source-wide PM<sub>10</sub> emissions by twenty-five percent (25%). A source may substitute other proposed actual PM<sub>10</sub> emission reductions upon a demonstration that the ambient air quality impact will be equivalent or greater than source-wide reductions.

(2) Any source where a specific facility at the source contributed more than one (1) microgram per cubic meter at the sampling site on any of the sampling days that contributed to the violation shall submit reduction measures that will reduce the facility's actual emissions by twenty-five percent (25%). A source may substitute other proposed actual PM<sub>10</sub> emission reductions upon a demonstration that the ambient air quality impact will be equivalent or greater than facility-wide reductions. If the culpability study demonstrates that a percent less than twenty-five percent (25%) would ensure that no further violation of the annual PM<sub>10</sub> standard will occur, under the same circumstances, the department will specify what percent reduction will be required to ensure that no further violations occur.

(b) A source may, instead of the information required in subsection (a), submit an analysis that demonstrates that the source's contribution to the violation is five (5) micrograms per cubic meter (µg/m<sup>3</sup>) or less or, in the case of a facility, less than one (1) microgram per cubic meter. After reviewing this information, the department shall determine whether the source shall comply with the emission reductions required in section 4(c) of this rule. The department's decision is subject to IC 4-21.5.

(c) At the time of the submittal of the reduction measures, the source shall request that the department immediately incorporate the reduction measures into the source's Title V permit as described in 326 IAC 2-7 or its federally enforceable state operating permit (FESOP) as described in 326 IAC 2-8. If the source does not have a Title V operating permit or a FESOP, the source shall request that the department submit the reduction measure to U.S. EPA as an SIP revision.

(d) The department may commence rulemaking to incorporate the approved reduction measures into 326 IAC 6.8-2 through 326 IAC 6.8-8 and 326 IAC 6.8-10 as appropriate.

(e) The source shall implement the reduction measures within one hundred eighty (180) days of the department's initial notification or such sooner time as may be feasible given the nature of the reduction measures, regardless of the department's approval, disapproval, or request for additional information unless a petition under subsection (b) or section 4(c) of this rule has

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PARTICULATE MATTER LIMITATIONS FOR LAKE COUNTY

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been submitted. Upon a showing by a source that one hundred eighty (180) days is infeasible for implementation of the reduction measures, the commissioner may extend the deadline, provided that the source implements interim reduction measures for the period of time necessary to implement the permanent measures. Such interim measures shall be put in place within thirty (30) days of the commissioner's approval of the requested extension.

(f) If, after review of the reduction measures, the department does not agree that the measures will achieve the required reduction, the department will notify the source. The source will have forty-five (45) days from receipt of the notice in which to resubmit a plan that adequately addresses the deficiencies. Failure to resubmit a plan that ensures reductions in  $PM_{10}$  emissions constitutes a violation of this article.

(g) A source that is required to resubmit reduction measures shall implement the approved measures within ninety (90) days of the department's approval. (*Air Pollution Control Division; 326 IAC 6.8-11-6; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3549*)

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