

**Document:** IC 13-14-9 Notice, **Register Page Number:** 26 IR 3151

**Source:** June 1, 2003, Indiana Register, Volume 26, Number 9

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## **TITLE 326 AIR POLLUTION CONTROL BOARD**

### **SECOND NOTICE OF COMMENT PERIOD**

#00-236(APCB)

## **DEVELOPMENT OF AMENDMENTS TO RULES CONCERNING SULFUR DIOXIDE (SO<sub>2</sub>) EMISSION LIMITATIONS IN LAKE COUNTY**

### **PURPOSE OF NOTICE**

The Indiana Department of Environmental Management (IDEM) has developed draft rule language for amendments to sulfur dioxide (SO<sub>2</sub>) emission limitations in Lake County, Indiana. By this notice, IDEM is soliciting public comment on the draft rule language. In this draft rule, the requirements in the table in 326 IAC 7-4-1.1 have been divided into separate sections for each company for clarity and ease of future rule actions. The new rule, 326 IAC 7-4.1, will replace 326 IAC 7-4-1.1, which will be repealed. Additionally, IDEM has identified changes that are required to correct and update information associated with the Lake County table in 326 IAC 7-4-1.1. Such changes may include providing updates to company names, updates to emission limits currently in permits, deletion of companies that are already covered by the natural gas limits, or other corrections or updates. Due to changes in section numbers, references to citations in other parts of this article have also been updated. IDEM seeks comment on the affected citations listed and any other provisions of Title 326 that may be affected by this rulemaking.

### **HISTORY**

First Notice of Comment Period: November 1, 2000, Indiana Register (24 IR 554).

**CITATIONS AFFECTED:** 326 IAC 7-1.1-1; 326 IAC 7-1.1-2; 326 IAC 7-2-1; 326 IAC 7-4-1.1; 326 IAC 7-4.1.

**AUTHORITY:** IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11.

### **SUBJECT MATTER AND BASIC PURPOSE OF RULEMAKING**

Pursuant to Section 107 of the Clean Air Act (CAA), portions of Lake County are currently designated as a primary nonattainment area for the National Ambient Air Quality Standard (NAAQS) for sulfur dioxide (SO<sub>2</sub>). There are numerous sources in Lake County that emit SO<sub>2</sub>, including steel mills, an oil refinery, and other industrial processes. These companies have SO<sub>2</sub> limits established in 326 IAC 7-4-1.1.

Air quality in Lake County has improved significantly in the past two decades and SO<sub>2</sub> levels measured at the two monitors in Lake County nonattainment area have been no more than 60% of the air quality standard for at least ten years. Although air quality monitoring shows attainment, U.S. EPA requires the state to provide modeling that demonstrates attainment throughout the county in order to seek redesignation of Lake County to attainment status for SO<sub>2</sub>. Because the emission limits in the current rule are both outdated and do not demonstrate attainment, it is necessary to revise the emission limits in the rule so that air quality modeling will show attainment of the standard throughout the entire county.

IDEM has spent the past several years working with SO<sub>2</sub> sources in Lake County to update and correct model inputs, including updated emission rates, source closures, hours of operations, and other information for inclusion into the modeling.

To redesignate an area to attainment, modeling must show attainment of the air quality standard. An analysis of the various modeling scenarios conducted indicates site-specific strategies that focus on individual sources will be more effective than the implementation of broad countywide limits. The SO<sub>2</sub> rules for Lake County at 326 IAC 7-4-1.1 establish emission limitations for SO<sub>2</sub> sources in the county. Although emission rates are specified for several SO<sub>2</sub> sources in Lake County, those sources whose SO<sub>2</sub> emissions have been specifically identified as likely causing exceedances of the NAAQS include BP Products North America Inc. (formerly BP Amoco), Carmeuse Lime (formerly Marblehead Lime), ISG Indiana Harbor Inc. (formerly LTV Steel), Ispat Inland Inc. (formerly Inland Steel), Unilever, and U.S. Steel-Gary Works (formerly USX). IDEM has been working with the affected companies, the public and U.S. EPA Region V to develop a control strategy that can demonstrate protection of the SO<sub>2</sub> ambient standards in the area.

The emission limits in this draft rule will achieve attainment of the SO<sub>2</sub> air quality standard. However, the department seeks

comment from affected sources on these limits and specific suggestions, as necessary, for alternative limits that also achieve attainment of the air quality standard. The department is committed to working with affected sources prior to final adoption of the rule to develop such alternative limits.

Since the last time the rule was amended, certain companies listed in the table in 326 IAC 7-4-1.1 are now operating under new permits, variances, or other agency actions. These agency actions may include new or updated information or emission limits. It is IDEM's intent to update the rule to reflect the current information in these documents.

The types of changes made in this draft rule include the following:

- The format has been changed from the Table in 326 IAC 7-4-1.1(c) to separate sections for each company under a new rule, 326 IAC 7-4.1.
- Specific changes to emission limits have been made to be consistent with permitted limits or to demonstrate attainment through modeling with the SO<sub>2</sub> air quality standard. Facilities with emission limit changes from the current rule include: BP Products North America Inc. (formerly AMOCO), Carmeuse Lime (formerly Marblehead Lime), Cerestar USA (formerly AMAIZO), ISG Indiana Harbor Inc. (formerly LTV Steel), Ispat Inland Inc. (formerly Inland Steel), Methodist Hospital, Safety Kleen Oil Recovery Company, Rhodia (formerly Stauffer), and U.S. Steel-Gary Works (formerly USX).
- Emission limits in pounds per hour have been added for all facilities.
- New facilities that were previously part of a facility listed in the Table in 326 IAC 7-4-1.1 have been added. These include: Indiana Harbor Coke Company and Cokenergy (both affiliated with Ispat Inland Inc.)
- Closed facilities have been removed. These facilities include: C & A Wallcovering, East Chicago Incinerator, Kaiser, Lehigh Portland Cement, and U.S. Reduction.
- Units that burn only natural gas and facilities with natural gas only units listed are subject to the natural gas emission limit in 326 IAC 7-4.1-1 and are no longer listed individually in the rule. Facilities removed from the rule for this purpose include: ASF-Keystone (formerly American Steel-Hammond), Ferro Corporation (formerly Keil Chemical), Horace Mann School, Huhtamaki Foods (formerly Keyes Fibre), Premiere Candy, Resco Products (formerly Harbison Walker), Silgan Containers Corporation (formerly American Can Company), and U.S. Gypsum.
- Facility names have been updated. Changes to facility names not already mentioned include: National Recovery Systems (formerly National Briquette), SCA Tissue North America LLC (formerly Georgia Pacific), and Unilever (formerly Lever Brothers).
- Equipment inventories have been updated, either adding or deleting units.
- Source codes for each facility have been added.
- Other minor corrections and clarifications have been made, such as correcting unit descriptions.

IDEM is proposing to repeal 326 IAC 7-4-1.1 and replace it with a new rule, 326 IAC 7-4.1. This recodification is due, in part, to the extensive changes necessary to update the language. It will also allow the requirements to be separated in sections by company making it easier to address company-specific amendments in future rulemakings. Updates to citations have been made in 326 IAC 7-1.1-1, 326 IAC 7-1.1-2, and 326 IAC 7-2-1 for consistency.

IDEM seeks comment from interested parties on this rulemaking, including ways to achieve the SO<sub>2</sub> emission reductions required to demonstrate attainment.

## **SUMMARY/RESPONSE TO COMMENTS FROM THE FIRST COMMENT PERIOD**

IDEM requested public comment from November 1, 2000, through November 30, 2000, on alternative ways to achieve the purpose of the rule and suggestions for the development of draft rule language. IDEM received comments from the following party by the comment period deadline:

R. M. Zavoda, LTV Steel Company, (LTV)

Following is a summary of the comments received and IDEM's responses thereto:

*Comment:* IDEM should appropriately incorporate the current sulfur dioxide limitations in 326 IAC 7-4-1.1(c)(14)(A)(ii) and 326 IAC 7-4-1.1(c)(14)(A)(iv) in the modeling scenarios being conducted in development of this rulemaking effort. IDEM should provide the results of new modeling runs when they are available. (LTV)

*Response:* IDEM has worked with companies identified in the rulemaking to be sure the associated modeling includes the correct information. IDEM will provide the results of new modeling runs as they become available.

*Comment:* IDEM should pursue redesignation of Lake County to a sulfur dioxide attainment area. (LTV)

*Response:* IDEM concurs. Revisions to the emission limits in this rule are an essential step in the development of a petition for redesignation.

## **REQUEST FOR PUBLIC COMMENTS**

This notice requests the submission of comments on the draft rule language, including suggestions for specific revisions to

language to be contained in the draft rule. Mailed comments should be addressed to:

#00-236(APCB) Sulfur Dioxide Emission Limitations in Lake County

Christine Pedersen

c/o Administrative Assistant, Rules Development Section

Air Programs Branch

Office of Air Quality

Indiana Department of Environmental Management

P.O. Box 6015

Indianapolis, Indiana 46206-6015.

Hand delivered comments will be accepted by the receptionist on duty at the tenth floor reception desk, Office of Air Quality, 100 North Senate Avenue, Indianapolis, Indiana, Monday through Friday, between 8:15 a.m. and 4:45 p.m.

Comments may be submitted by facsimile at the IDEM fax number: (317) 233-2342, Monday through Friday, between 8:15 a.m. and 4:45 p.m. Please confirm the timely receipt of faxed comments by calling the Rules Development Section at (317) 233-0430.

### COMMENT PERIOD DEADLINE

Comments must be postmarked, hand delivered, or faxed by July 2, 2003.

Additional information regarding this action may be obtained from Chris Pedersen, Rules Development Section, Office of Air Quality, (317) 233-6868 or (800) 451-6027, press 0, and ask for 3-6868 (in Indiana).

### DRAFT RULE

SECTION 1. 326 IAC 7-1.1-1 IS AMENDED TO READ AS FOLLOWS:

#### 326 IAC 7-1.1-1 Applicability

**Authority:** IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11; IC 13-17-3-12

**Affected:** IC 13-15; IC 13-17

Sec. 1. All facilities with a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide shall comply with the limitations in section 2 of this rule and the compliance test methods in 326 IAC 7-2. The above facilities shall also comply with the sulfur dioxide emission limitations and other requirements pursuant to 326 IAC 2, 326 IAC 7-4, **326 IAC 7-4.1**, and 326 IAC 12. (*Air Pollution Control Board; 326 IAC 7-1.1-1; filed Aug 28, 1990, 4:50 p.m.: 14 IR 52; filed Apr 22, 1997, 2:00 p.m.: 20 IR 2368; filed Dec 20, 2001, 4:30 p.m.: 25 IR 1600*)

SECTION 2. 326 IAC 7-1.1-2 IS AMENDED TO READ AS FOLLOWS:

#### 326 IAC 7-1.1-2 Sulfur dioxide emission limitations

**Authority:** IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11; IC 13-17-3-12

**Affected:** IC 13-15; IC 13-17

Sec. 2. (a) Sulfur dioxide emissions from fuel combustion facilities shall be limited as follows, unless specified otherwise in 326 IAC 7-4, **326 IAC 7-4.1**, or in a construction permit issued pursuant to 326 IAC 2:

- (1) Six and zero-tenths (6.0) pounds per million **British thermal units** (Btu) for coal combustion.
- (2) One and six-tenths (1.6) pounds per million Btu for residual oil combustion.
- (3) Five-tenths (0.5) pound per million Btu for distillate oil combustion.

(b) For facilities combusting coal and oil simultaneously, the sulfur dioxide emission limitation shall be six and zero-tenths (6.0) pounds per million Btu. For facilities combusting oil and any fuel other than coal simultaneously, the sulfur dioxide emission limitation shall be the limitation specified in subsection (a)(2) or (a)(3), depending on the type of oil combusted. For the purposes of this subsection, simultaneous combustion of coal and oil shall include those periods of startup, shutdown, and flame stabilization required under normal facility operations. (*Air Pollution Control Board; 326 IAC 7-1.1-2; filed Aug 28, 1990, 4:50 p.m.: 14 IR 52; filed Apr 22, 1997, 2:00 p.m.: 20 IR 2369; filed Dec 20, 2001, 4:30 p.m.: 25 IR 1600*)

SECTION 3. 326 IAC 7-2-1 IS AMENDED TO READ AS FOLLOWS:

### **326 IAC 7-2-1 Reporting requirements; methods to determine compliance**

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

**Affected:** IC 13-14-8; IC 13-15; IC 13-17

Sec. 1. (a) As used in this article, “weighing factor” means the daily quantity of coal bunkered or megawatt generation or other appropriate measure of the output of a combustion source.

(b) As used in this article, “rolling weighted average sulfur dioxide emission rate” means the summation of the average sulfur dioxide emission rate times the daily weighing factor divided by the summation of the weighing factors.

(c) Owners or operators of sources or facilities subject to 326 IAC 7-1.1, ~~or~~ 326 IAC 7-4, **or 326 IAC 7-4.1** shall submit to the commissioner the following reports based on fuel sampling and analysis data obtained in accordance with procedures specified under 326 IAC 3-7:

(1) Fuel combustion sources with total coal-fired heat input capacity greater than or equal to one thousand five hundred (1,500) million British thermal units (Btus) per hour shall submit quarterly reports of the thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per million Btus. Records of the daily average coal sulfur content, coal heat content, weighing factor, and daily average sulfur dioxide emission rate in pounds per million Btus shall be submitted to the department in the quarterly report and maintained by the source owner or operator for a period of at least two (2) years.

(2) Fuel combustion sources with total coal-fired heat input capacity greater than one hundred (100) and less than one thousand five hundred (1,500) million Btus per hour shall submit quarterly reports of the calendar month average coal sulfur content, coal heat content, and sulfur dioxide emission rate in pounds per million Btus and the total monthly coal consumption.

(3) All other fuel combustion sources shall submit reports of calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate in pounds per million Btus upon request.

(d) Compliance or noncompliance with the emission limitations contained in 326 IAC 7-1.1, ~~or~~ 326 IAC 7-4, **or 326 IAC 7-4.1** may be determined by a stack test conducted in accordance with 326 IAC 3-6 utilizing procedures outlined in 40 CFR 60\*, Appendix A, Method 6, 6A, 6C, or 8.

(e) Fuel sampling and analysis data shall be collected pursuant to the procedures specified in 326 IAC 3-7-2 or 326 IAC 3-7-3 for coal combustion or 326 IAC 3-7-4 for oil combustion, and these data may be used to determine compliance or noncompliance with the emission limitations contained in 326 IAC 7-1.1, ~~or~~ 326 IAC 7-4, **or 326 IAC 7-4.1**. Computation of calculated sulfur dioxide emission rates from fuel sampling and analysis data shall be based on the emission factors contained in U.S. EPA publication AP-42, “Compilation of Air Pollutant Emission Factors” (September 1988)\*, unless other emission factors based on site-specific sulfur dioxide measurements are approved by the commissioner and the U.S. EPA. Fuel sampling and analysis data shall be collected as follows:

(1) For coal-fired fuel combustion sources with heat input capacity greater than or equal to one thousand five hundred (1,500) million Btus per hour, compliance or noncompliance shall be determined using a thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per million Btus unless a shorter averaging time or alternate averaging methodology is specified for a source under this article.

(2) For all other combustion sources, compliance or noncompliance shall be determined using a calendar month average sulfur dioxide emission rate in pounds per million Btus unless a shorter averaging time or alternate averaging methodology is specified for a source under this article.

(f) A determination of noncompliance pursuant to either the method specified in subsection (d) or (e) shall not be refuted by evidence of compliance pursuant to the other method.

(g) Upon written notification of a facility owner or operator to the department, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in this article. Upon such notification, the other requirements of this rule shall not apply.

**\*These documents are incorporated by reference.** Copies of the Code of Federal Regulations (CFR) and AP-42 referenced may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401. Copies of pertinent sections are also 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, ~~Room 1001,~~ Indianapolis, Indiana 46204. (Air

*Pollution Control Board; 326 IAC 7-2-1; filed Aug 28, 1990, 4:50 p.m.: 14 IR 52; filed Jan 30, 1998, 4:00 p.m.: 21 IR 2078; errata filed Feb 9, 1999, 4:06 p.m.: 22 IR 2006; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; errata filed Nov 7, 2001, 3:00 p.m.: 25 IR 813; errata filed Dec 12, 2002, 3:30 p.m.: 26 IR 1565)*

SECTION 4. 326 IAC 7-4.1 IS ADDED AS FOLLOWS:

**Rule 4.1. Lake County Sulfur Dioxide Emission Limitations**

**326 IAC 7-4.1-1 Lake County sulfur dioxide 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. 1.** All fossil fuel-fired combustion sources and facilities subject to 326 IAC 7-1.1 located in Lake County shall burn natural gas only unless an alternate sulfur dioxide emission limit is provided in this rule. A facility subject to 326 IAC 7-1.1, but not located at a source specifically listed in this rule, may burn distillate oil with sulfur dioxide emissions limited to three-tenths (0.3) pound per million British thermal units (mmBtu) if the fuel combustion unit has a maximum capacity of less than twenty (20) mmBtu per hour actual heat input. *(Air Pollution Control Board; 326 IAC 7-4.1-1)*

**326 IAC 7-4.1-2 Sampling and analysis protocol**

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

**Affected:** IC 13-15; IC 13-17

**Sec. 2.** Cerestar USA, BP Products North America Inc., Ispat Inland Inc., ISG Indiana Harbor Inc., Carmeuse Lime, and U.S. Steel-Gary Works shall submit a sampling and analysis protocol to the department by December 31, 1988. The protocol shall contain a description of planned procedures for sampling of sulfur-bearing fuels and materials, for analysis of the sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere. The protocol shall specify the frequency of sampling, analysis, and measurement for each fuel and material and for each facility. The department shall incorporate the protocol into the source's operation permit per procedures specified in 326 IAC 2. The department may revise the protocol as necessary to establish acceptable sampling, analysis, and measurement procedures and frequency. The department may also require that a source conduct a stack test at any facility listed in this section within thirty (30) days of written notification by the department. *(Air Pollution Control Board; 326 IAC 7-4.1-2)*

**326 IAC 7-4.1-3 Associated Box sulfur dioxide 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.** Associated Box, Source Identification Number 00303 shall comply with the sulfur dioxide emission limits for the Space Heating Boiler of three-hundredths (0.03) pound per million British thermal units and one hundred sixty-five thousandths (0.165) pound per hour. *(Air Pollution Control Board; 326 IAC 7-4.1-3)*

**326 IAC 7-4.1-4 BP Products North America Inc. sulfur dioxide 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. 4. (a)** BP Products North America Inc., Source Identification Number 00003 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (Btu) and pounds per hour and other requirements as follows:

Facility Description	Emission Limit lbs/mmBtu	Emission Limit lbs/hour
(1) No. 1 Power Station Boilers 2, 3, 4, 5, 6, and 7:		
(A) Boiler 2	0.033	7.92
(B) Boilers 3 and 4	0.033 each	17.49 total
(C) Boilers 5, 6, and 7	0.033 each	26.24 total
(2) No. 1 Power Station Boiler 8	0.033	7.92
(3) No. 3 Power Station Boilers 1, 2, 3, 4, and 6	0.033 each	18.98 each

<b>(4) No. 11 Pipe Still:</b>		
(A) H-1X Heater	0.033	8.25
(B) H-2 Vacuum Heater	0.033	1.49
(C) H-3 Vacuum Heater	0.033	1.82
(D) H-101, 102, 103, and 104 Coker Preheaters	0.033 each	6.60 total
(E) H-200 Crude Charge	0.033	8.23
(F) H-300 Furnace	0.033	5.94
<b>(5) No. 12 Pipe Still:</b>		
(A) H-1A, H-1B Preheaters, and H-2 Vacuum Heater	0.033 each	21.78 total
(B) H-1CN, and H-1CS Crude Preheaters	0.033 each	7.92 total
(C) H-1CX	0.033	13.53
<b>(6) No. 2 Isomerization H-1 Feed Heater Furnace</b>	0.034	6.46
<b>(7) No. 3 Ultraformer:</b>		
(A) H-1 Feed Heater Furnace	0.033	7.92
(B) H-2 Feed Heater Furnace	0.034	6.29
(C) F-7 Furnace	0.035	0.81
<b>(8) No. 4 Ultraformer:</b>		
(A) F-1 Ultraformer Furnace, F-8A and F-8B Reboilers	0.033 each	13.00 total
(B) F-2 Preheat Furnace	0.033	9.44
(C) F-3 No. 1 Reheat Furnace	0.033	7.99
(D) F-4, F-5, and F-6 Reheat Furnaces	0.033 each	9.41 total
(E) F-7 Furnace	0.033	1.72
<b>(9) Aromatic Recovery Unit F-200A and F-200B Furnace</b>	0.035 each	17.47 total
<b>(10) Blending Oil Desulfurization Furnace F-401</b>	0.034	1.19
<b>(11) Catalytic Refining Unit:</b>		
(A) F-101 Feed Preheater	0.04	2.88
(B) F-102a Stripper Reboiler	0.04	2.40
<b>(12) FCU 500</b>		750.00
<b>(13) FCU 600</b>		437.50
<b>(14) Wastewater Sludge Fluid Bed Incinerator</b>	0.05 pounds per ton feed material	0.78
<b>(15) Catalytic Feed Hydrotreating Unit:</b>		
(A) F-801 A/B Preheater Furnace	0.035	2.33
(B) F-801 C Preheater Furnace	0.035	2.1
<b>(16) Beavon-Stretford Tail Gas Unit</b>		53.10
<b>(17) Sodium Bisulfite Tail Gas Unit</b>		9.0
<b>(18) Sulfur Recovery Unit Incinerator</b>	0.033	1.25
<b>(19) F-1 Berry Lake Distillate Heater</b>	0.033	0.43
<b>(20) F-2 Steiglitz Park Residual Heater</b>	0.033	0.90
<b>(21) Distillate Desulfurization Units WB-301 and WB-302</b>	0.033 each	4.24 total
<b>(22) Hydrogen Unit B-1</b>	0.033	12.09

**(b) BP Products North America Inc. shall do the following:**

- (1) Maintain daily records of fuel type, average sulfur content for each fuel type, average fuel gravity for each fuel type, and total fuel usage for each type for the No. 1 Power Station, the No. 3 Power Station, the F-2 Steiglitz Park Residual Heater, the No. 11 Pipe Still, and the No. 12 Pipe Still.**
- (2) Maintain daily records of fuel type, average sulfur content, and average fuel gravity for each facility specified in this subdivision with sulfur dioxide emission limitations less than four-hundredths (0.04) pound per million Btu.**
- (3) Maintain records of daily calculated coke burn and sulfur content of the oil feed for the FCU 500 and FCU 600 and**

of Claus Train sulfur production, average hydrogen sulfide to sulfur dioxide ratio, fuel gas burned at the incinerator, and total sulfur content of the Tail Gas Unit effluent.

(4) Submit a report to the department within thirty (30) days after the end of each calendar quarter containing the average daily sulfur dioxide emission rate for the facilities specified in subdivisions (1) through (3). BP Products North America Inc. shall also submit to the department the total daily fuel usage for each fuel type for the No. 1 Power Station, the No. 3 Power Station, the F-2 Steiglitz Park Residual Heater, the No. 11 Pipe Still, and the No. 12 Pipe Still and the total daily calculated sulfur dioxide emissions from the FCU 500 and FCU 600 in the quarterly report required under this subdivision.

*(Air Pollution Control Board; 326 IAC 7-4.1-4)*

#### **326 IAC 7-4.1-5 Buckco Construction sulfur dioxide 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. 5. Buckco Construction, Source Identification Number 00179 shall comply with the sulfur dioxide emission limits for the Rotary Dryer of seven-hundredths (0.07) pound per ton and seventeen and five-tenths (17.5) pounds per hour.** *(Air Pollution Control Board; 326 IAC 7-4.1-5)*

#### **326 IAC 7-4.1-6 Carmeuse Lime sulfur dioxide 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. 6. (a) Carmeuse Lime, Source Identification Number 00112 shall comply with the sulfur dioxide emission limits for Rotary Kilns 1 through 5 as follows:**

(1) When three (3) or fewer kilns are in operation at the same time, the operating kilns are not to exceed:

(A) two and ninety-four thousandths (2.094) pounds of SO<sub>2</sub> per ton;

(B) forty-eight (48) pounds per hour per operating kiln; and

(C) one hundred forty-four (144) pounds per hour for up to three (3) operating kilns.

(2) When four (4) kilns are in operation at the same time, the operating kilns are not to exceed:

(A) one and seven hundred forty-five thousandths (1.745) pounds of SO<sub>2</sub> per ton;

(B) forty (40) pounds per hour per operating kiln; and

(C) one hundred sixty (160) pounds per hour for the four (4) operating kilns.

(3) When five (5) kilns are in operation at the same time, the operating kilns are not to exceed:

(A) one and four hundred eighty-three thousandths (1.483) pounds of SO<sub>2</sub> per ton;

(B) thirty-four (34) pounds per hour per operating kiln; and

(C) one hundred seventy (170) pounds per hour for the five (5) operating kilns.

(4) The production limit is not to exceed five hundred fifty (550) tons per day for each rotary kiln.

(b) Sulfur dioxide emissions shall be vented from the kilns/kiln gas filter systems at the following heights above grade:

(1) For Kiln No. 1, a stack height of seventy-nine and one-tenth (79.1) feet.

(2) For Kiln No. 2, a stack height of eighty-five and nine-tenths (85.9) feet.

(3) For Kiln No. 3, a stack height of eighty-six and zero-tenths (86.0) feet.

(4) For Kiln No. 4, a stack height of ninety-four and four-tenths (94.4) feet.

(5) For Kiln No. 5, a stack height of eighty-seven and four-tenths (87.4) feet.

*(Air Pollution Control Board; 326 IAC 7-4.1-6)*

#### **326 IAC 7-4.1-7 Cerestar USA sulfur dioxide 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. 7. (a) Cerestar USA, Source Identification Number 00203 shall comply with the sulfur dioxide emission limits for Boilers 6, 7, 8, and 10 of one and fifty-seven hundredths (1.57) pounds per million British thermal units and seven hundred eighty-four (784) pounds per hour for all four (4) boilers.**

(b) Cerestar USA shall:

(1) maintain records of average sulfur content, fuel oil usage, and boiler operating load for each hour in which any boiler operates on fuel oil; and

(2) submit a report to the department within thirty (30) days after the end of each calendar quarter containing the records listed in subdivision (1) and a calculation of the total sulfur dioxide emissions from Boilers 6, 7, 8, and 10 for each hour.

(Air Pollution Control Board; 326 IAC 7-4.1-7)

**326 IAC 7-4.1-8 Cokenergy Inc. sulfur dioxide 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. 8. Cokenergy Inc., Source Identification Number 00383 shall comply with the sulfur dioxide emission limit in pounds per hour for the heat recovery coke carbonization waste gas stack, identified as Stack ID 201, combined with the sixteen (16) vents from the Indiana Harbor Coke Company of a twenty-four (24) hour average emission rate of one thousand six hundred fifty-six (1,656) pounds per hour. (Air Pollution Control Board; 326 IAC 7-4.1-8)

**326 IAC 7-4.1-9 Horace Mann School sulfur dioxide 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. 9. Horace Mann School, Source Identification Number 00108 shall comply with the sulfur dioxide emission limits for the three (3) boilers of six and zero-tenths (6.0) pounds per million British thermal units (Btu) each and forty-two and zero-tenths (42.0) pounds per hour each. (Air Pollution Control Board; 326 IAC 7-4.1-9)

**326 IAC 7-4.1-10 Indiana Harbor Coke Company sulfur dioxide 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. 10. (a) Indiana Harbor Coke Company (IHCC), Source Identification Number 00382 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units and pounds per hour as follows:

Facility Description	Emission Limit lbs/ton	Emission Limit lbs/hour
(1) IHCC Coal Carbonization Charging	0.0068 each	1.57 total
(2) IHCC Coal Carbonization Pushing	0.0084	1.96
(3) IHCC Coal Carbonization Quenching	0.0053	1.232 total
(4) IHCC Coal Carbonization Thaw Shed	0.0006 lbs/1,000 cubic feet natural gas	0.015
(5) IHCC Vent Stacks (16 total) in combination with Cokenergy's heat recovery coke carbonization waste gas stack identified as Stack ID 201		1,656 total for a 24 hour average

(b) The coke ovens shall recycle the gases emitted during the coking process and utilize it as the only fuel source for the ovens during normal operations. The gases shall not be routed directly to the atmosphere unless they first pass through the common tunnel afterburner. A maximum of nineteen percent (19%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere on a twenty-four (24) hour basis and fourteen percent (14%) on an annual basis. (Air Pollution Control Board; 326 IAC 7-4.1-10)

**326 IAC 7-4.1-11 ISG Indiana Harbor Inc. sulfur dioxide 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. 11. (a) ISG Indiana Harbor Inc., Source Identification Number 00318 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (Btu) and pounds per hour and other requirements as follows:

Facility Description	Emission Limit lbs/mmBtu	Emission Limit lbs/hour
(1) Utility Boilers 5, 6, 7, 8, and 9:	0.297 each	646.4 total



(A) Total actual heat input from fuel oil and desulfurized coke oven gas usage at all boilers combined shall not exceed nine hundred ninety-three (993) million Btu per hour.

(B) Boilers shall be fired on fuel oil, blast furnace gas, desulfurized coke oven gas, and natural gas only.

(C) Fuel oil burned shall not exceed one and three-tenths percent (1.3%) sulfur and one and thirty-five hundredths (1.35) pounds per million Btu.

(2) Hot Strip Mill Slab Heat Reheat Furnaces 1, 2, and 3	1.254 each	535.1 each
(3) Sinter Plant Windbox	1.0 pound per ton	240
(4) Blast Furnace Stoves:		
(A) No. 3 Blast Furnace Stove	0.290	140.94
(B) No. 4 Blast Furnace Stove	0.290	127.89
(5) Reladling and Desulfurization Baghouse	0.057 pound per ton	30.40
(6) Number 4 Blast Furnace EC Baghouse	0.18 pound per ton	69.9
(7) Number 3 Blast Furnace Slag Pits		14.48
(8) Number 4 Blast Furnace Slag Pits		14.48

(b) ISG Indiana Harbor Inc. shall:

(1) maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in subsection (a)(1) through (a)(4);

(2) maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter; and

(3) submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million Btu for each facility for each day during the calendar quarter and the total fuel usage for each type at each facility for each day.

*(Air Pollution Control Board; 326 IAC 7-4.1-11)*

#### 326 IAC 7-4.1-12 Ispat Inland Inc. sulfur dioxide 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. 12. (a) Ispat Inland Inc., Source Identification Number 00316 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (Btu) or pounds per hour as follows:

Facility Description	Emission Limit lbs/mmBtu	Emission Limit lbs/hour
(1) No. 1 Blast Furnace Stoves	0.080 total	11.92 total
(2) No. 2 Blast Furnace Stoves	0.080 total	12.4 total
(3) No. 5 and 6 Blast Furnace Stoves	0.140 each	41.02 each
(4) No. 7 Blast Furnace Stoves	0.200 total	166 total
(5) A and B Blast Furnace Stoves	0.138 each	33.396 each
(6) No. 5 Boilerhouse	0.200	268.2
(7) No. 2AC Boilers 207, 208, 209, and 210		15.873 total
(8) No. 2AC Boilers 211, 212, and 213	0.070 each	56.0 each
(9) No. 3AC Boilers 301, 302, 303, and 304	0.198 each	39.600 each
(10) No. 3AC Boiler 305	0.198	45.540
(11) No. 4AC Boilers 401, 402, 403, 404, and 405:		890.23 total
(A) Stack 1 (Boilers 401 and 402) and Stack 2 (Boilers 403 and 404)	1.5 per stack	

(B) Stack 3 (Boiler 405) 1.0

(C) Sulfur dioxide emissions from Stacks 1, 2, and 3 shall be limited in accordance with the following equation in units of pounds per million Btu:

$$(\text{Stack 1} + \text{Stack 2})/2 + 0.425 \times \text{Stack 3} \leq 1.6$$

If any one (1) of Boilers 401 through 405 is not operating for a given calendar day, the pounds per million Btu for Stack 3 for the purposes of the equation in this clause is twenty-four hundredths (0.24) pounds per million Btu.

(D) Ispat Inland Inc. shall maintain and operate sulfur dioxide continuous emission monitoring systems (CEMS) in Stacks 1, 2, and 3. CEMS data shall be used to determine compliance and to determine the sulfur dioxide emission rate in pounds per million Btu for the report required under subsection (b)(3). The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-5, and records of hourly emissions data shall be maintained and made available to the department upon request.

(12) No. 4 Slabber Pits 1 through 18	0.285	51.300 total
(13) No. 4 Slabber Pits 19 through 45	0.285	85.500 total
(14) 100" Plate Mill Reheat Furnace	0.851	148.925
(15) Lime Plant	0.460	33.30 total
(16) Anneal 3, 4	0.000	0.000
	Emission Limit lbs/ton	Emission Limit lbs/hour
(17) EAF Shop Ladle Metal Baghouse	0.107	11.909
(18) Pigging Ladle Facility	0.020	4.000
(19) Sinter Plant Windbox	1.000	180.000
(20) No. 7 Blast Furnace Canopy	0.200	45.800
(21) No. 7 BF Casthouse Baghouse	0.200	45.800
(22) No. 2 BOF 10 Furnace Stack	0.070	19.250
(23) No. 2 BOF 20 Furnace Stack	0.070	19.250
(24) No. 2 BOF Secondary Vent	0.014	6.440
(25) No. 2 BOF Charge Aisle and HMS Baghouse	0.151	69.460
(26) No. 2 BOF Ladle Metal Baghouse	0.025	11.500
(27) No. 4 BOF HMS Baghouse S and N	0.151 each	36.391 each
(28) No. 4 BOF Secondary Vent	0.001	0.535
(29) No. 4 BOF Scrubber Stack	0.001	0.535
(30) No. 5 Blast Furnace Casthouses 1 and 2	0.220 total	15.730 total
(31) No. 6 Blast Furnace Casthouse 1	0.220	15.730

(b) Ispat Inland Inc. shall:

(1) maintain records of the total blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in this section;

(2) maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the operational status of 2AC Station Boilers 207, 208, 209, 210, 211, 212, and 213, 4AC Station Boilers 401, 402, 403, 404, and 405; and

(3) submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million Btu for each facility for each day during the calendar quarter, the total fuel usage for each type of fuel used at each facility for each day, and any violations of subdivisions (7) and (8).

(Air Pollution Control Board; 326 IAC 7-4.1-12)

### 326 IAC 7-4.1-13 Methodist Hospital sulfur dioxide 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. 13. Methodist Hospital, Source Identification Number 00114 shall comply with the sulfur dioxide emission limits for Boiler 1 of one hundred fifty-two thousandths (0.152) pounds per million British thermal units (Btu) and four and eight hundred sixty-four thousandths (4.864) pounds per hour. (*Air Pollution Control Board; 326 IAC 7-4.1-13*)**

**326 IAC 7-4.1-14 National Recovery Systems sulfur dioxide 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. 14. National Recovery Systems, Source Identification Number 00323 shall comply with the sulfur dioxide emission limits for the Dryer of three-tenths (0.3) pounds per million British thermal units and two and seven hundred-thousandths (2.700) pounds per hour. (*Air Pollution Control Board; 326 IAC 7-4.1-14*)**

**326 IAC 7-4.1-15 NIPSCO Dean H. Mitchell Generating Station sulfur dioxide 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. 15. (a) NIPSCO Dean H. Mitchell Generating Station, Source Identification Number 00117 shall comply with the sulfur dioxide emission limits for Boilers 4, 5, 6, and 11 in pounds per million British thermal units (Btu) and pounds per hour as follows:**

**(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) Sulfur dioxide emissions for boilers operating under the scenarios listed in this subdivision shall be measured as a daily weighted average by the continuous emissions monitoring systems (CEMS) required in subsection (b)(2). NIPSCO Dean H. Mitchell Generating Station 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 numbers 4 or 5 may operate on coal if the other boiler is operated on natural gas or is not operating. Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to one and five-hundredths (1.05) pounds per million Btu and one thousand three hundred thirteen (1,313.0) pounds per hour.**

**(ii) Boiler numbers 6 and 11 may operate simultaneously on coal. Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to one and five-hundredths (1.05) pound per million Btu and two thousand four hundred seventy-five (2,475.0) pounds per hour.**

**(B) Boiler numbers 4, 5, 6, and 11 may operate simultaneously on coal subject to the following conditions:**

**(i) Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to seventy-seven hundredths (0.77) pound per million Btu and one thousand nine hundred twenty-five (1,925.0) pounds per hour.**

**(ii) Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-seven hundredths (0.77) pound per million Btu and one thousand eight hundred fifteen (1,815.0) 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:**

**(i) Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to one and five-hundredths (1.05) pounds per million Btu and two thousand six hundred twenty-five (2,625.0) pounds per hour.**

**(ii) Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to one and five-hundredths (1.05) pounds per million Btu and two thousand four hundred seventy-five (2,475.0) pounds per hour.**

**(3) NIPSCO Dean H. Mitchell Generating Station 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) NIPSCO Dean H. Mitchell Generating Station shall comply with the following:**

**(1) The diameter of the stack serving Boilers 6 and 11 shall be restricted to eight and three-tenths (8.3) feet.**

(2) Beginning May 31, 1992, NIPSCO Dean H. Mitchell Generating Station shall maintain and operate CEMS in the stacks serving Boilers 4, 5, 6, and 11. The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-4 and 326 IAC 3-5, with the exception of the three (3) hour block period reporting requirements under 326 IAC 3-5-7. Records of daily average emissions 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.

(3) NIPSCO Dean H. Mitchell Generating Station shall submit a written report to the department within thirty (30) days after the end of each calendar quarter. The report shall contain the daily weighted average emission rate in units of pounds per million Btu as measured by the CEMS for each stack venting emissions from those boilers specified in subdivision (2). The hourly gross megawatt power production from the units connected to each stack may be used as the weighting factor in determining the daily weighted average. Records of the hourly gross megawatt power production shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

*(Air Pollution Control Board; 326 IAC 7-4.1-15)*

#### **326 IAC 7-4.1-16 Rhodia sulfur dioxide 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. 16. (a) Rhodia, Source Identification Number 00242 shall comply with the sulfur dioxide emission limits for the Spent Acid Regeneration Unit 4 of seven hundred eighty-two (782) pounds per hour.

(b) Rhodia shall operate a continuous emission monitoring system (CEMS) in each stack serving Unit 4. Rhodia shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall contain the following information:

(1) Three (3) hour average sulfur dioxide emission rate in pounds per hour as measured by the CEMS from Unit 4 for each three (3) hour period during the calendar quarter in which the average emissions exceed the allowable rates specified in subsection (a)(1).

(2) The daily average emission rate in units of pounds per ton as determined from CEMS and production data for Unit 4 for each day of the calendar quarter.

*(Air Pollution Control Board; 326 IAC 7-4.1-16)*

#### **326 IAC 7-4.1-17 Safety-Kleen Oil Recovery Company sulfur dioxide 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. 17. Safety-Kleen Oil Recovery Company, Source Identification Number 00301 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (mmBtu) and pounds per hour, and other requirements as follows:

(1) Boilers SB-801, SB-820, SB-821, SB-822, and SB-823 shall use natural gas only.

(2) Process Heater H-201, with a capacity of twenty-seven and three-tenths (27.3) mmBtu per hour, shall use a combination of natural gas, #2 fuel oil equivalent, and off-gases. Process Heater H-301, with a capacity of twenty and zero-tenths (20.0) mmBtu per hour, shall use a combination of natural gas and #2 fuel oil equivalent. Process Heater H-302, with a capacity of fifteen and one-tenth (15.1) mmBtu per hour, shall use natural gas only. The combined sulfur dioxide emissions from these three (3) process heaters shall not exceed fourteen (14) pounds per hour and sixty (60) tons per year.

(3) Process Heater H-401, with a capacity of fifteen and three-tenths (15.3) mmBtu per hour, shall use a combination of natural gas, #2 fuel oil equivalent, and off-gases. Process Heater H-402, with a capacity of eleven and seven-tenths (11.7) mmBtu per hour, shall use a combination of natural gas and #2 fuel oil equivalent. Process Heater H-404, with a capacity of nine and zero-tenths (9.0) mmBtu per hour, shall use natural gas only. The combined sulfur dioxide emissions from these three (3) process heaters shall not exceed ten and eight-tenths (10.8) pounds per hour and forty-seven and three-tenths (47.3) tons per year.

(4) Process Heater H-406 shall use natural gas only.

(5) Safety-Kleen shall submit a report to the department within thirty (30) days after the end of each calendar quarter.

The report shall contain the following information:

(A) Fuel sampling and analysis on a daily basis of sulfur content of:

(i) #2 fuel oil equivalent; and

(ii) off-gases.

(B) Fuel consumption on a daily basis.

(Air Pollution Control Board; 326 IAC 7-4.1-17)

**326 IAC 7-4.1-18 SCA Tissue North America LLC sulfur dioxide 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. 18. SCA Tissue North America LLC, Source Identification Number 00106, shall comply with the sulfur dioxide emission limits

for Boiler 1 of one and two-tenths (1.2) pounds per million British thermal units and eighty-seven and twenty-four hundredths (87.24) pounds per hour. (Air Pollution Control Board; 326 IAC 7-4.1-18)

**326 IAC 7-4.1-19 State Line Energy, LLC sulfur dioxide 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. 19. State Line Energy, LLC, Source Identification Number 00210 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (Btu) and pounds per hour as follows:

(1) The Auxiliary Emergency Generator shall be limited to three-tenths (0.3) pounds per million Btu and one and thirty-five hundredths (1.35) pounds per hour.

(2) Boiler 3 shall be limited to one and two-tenths (1.2) pounds per million Btu and two thousand two hundred four and four-tenths (2,204.4) pounds per hour.

(3) Boiler 4 shall be limited to one and two-tenths (1.2) pounds per million Btu and three thousand five hundred thirty-eight and eight-tenths (3,538.8) pounds per hour.

(Air Pollution Control Board; 326 IAC 7-4.1-19)

**326 IAC 7-4.1-20 Unilever sulfur dioxide 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. 20. Unilever, Source Identification Number 00229 shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (Btu) and pounds per hour as follows:

(1) Boilers 3 and 4 shall be limited to one and fifty-two hundredths (1.52) pounds per million Btu each and one hundred twenty-five and three-tenths (125.3) pounds per hour each.

(2) Power House Boiler No. 1 shall be limited to five-tenths (0.5) pounds per million Btu and sixty (60) pounds per hour for a total of six hundred ninety-five (695) hours per year at full capacity.

(3) Sulfonation Process shall be limited to three and one-tenth (3.1) pounds per ton process material and eight and two hundred seventy-seven thousandths (8.277) pounds per hour.

(4) American Hydrotherm Boiler No. 2 shall be limited to fifteen-hundredths (0.15) pound per million Btu and one and eighty-three hundredths (1.83) pounds per hour.

(Air Pollution Control Board; 326 IAC 7-4.1-20)

**326 IAC 7-4.1-21 U. S. Steel-Gary Works sulfur dioxide 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. 21. (a) U. S. Steel-Gary Works, Source Identification Number 00121 shall comply with the following sulfur dioxide emission limitations when the coke oven gas desulfurization facility is not operating during the following periods:

Facility Description	Emission Limit lbs/mmBtu	Emission Limit lbs/hour
(1) During January through December:		
(A) Turboblower Boiler House:		
(i) Boiler No. 4A:		

(AA) During periods when combusting coke oven gas	1.080	263.5
(BB) During periods when not combusting coke oven gas	0.0006	0.1464
(ii) Boiler No. 6	0.115	81.7
<b>(B) Number 2 Coke Plant Boiler House:</b>		
(i) Boiler Nos. 1, 2, 3, and 7	0.0006 each	0.353 total
(ii) Boiler No. 6	0.9524	160.95
(iii) Boiler No. 8	1.270	316.2
<b>(C) Coke Battery Underfiring:</b>		
(i) Nos. 2 and 3	1.270 each	251.5 each
(ii) Nos. 5 and 7	1.270 each	146.1 each
<b>(D) Blast Furnace Stove Stacks:</b>		
(i) Nos. 4 and 6	0.115	40.3 each
(ii) No. 8	0.115	37.4
(iii) No. 13:		
(AA) During periods when any stove is combusting blast furnace gas	0.110	93.5
(BB) During periods when no stoves are combusting blast furnace gas	0.0006	0.51
<b>(E) Number 3 Sinter Plant Windbox Gas Cleaning Systems</b>	1.8	270.0
<b>(F) Coke Oven Gas Desulfurization Facility Tail Gas Incinerator</b>	2.444	22.0
<b>(G) Plate Mill Furnaces:</b>		
(i) During periods when combusting coke oven gas:		
(AA) Continuous Reheat Furnace Nos. 1 and 2	0.468	187.2 total
(BB) Batch Reheat Furnace Nos. 5 and 7	0.496	19.84 total
(CC) Batch Reheat Furnace Nos. 6 and 8	0.496	37.2 total
(ii) During periods when not combusting coke oven gas:		
(AA) Continuous Reheat Furnace Nos. 1 and 2	0.0006 total	0.24 total
(BB) Batch Reheat Furnace Nos. 5 and 7	0.0006 total	0.024 total
(CC) Batch Reheat Furnace Nos. 6 and 8	0.0006 total	0.045 total
<b>(H) Number 4 Boiler House Boiler Nos. 1, 2, and 3:</b>		
(i) During periods when Blast Furnace No. 13 Stoves are combusting blast furnace gas:		
(AA) When three (3) boilers are operating	0.115	172.5 total
(BB) When two (2) boilers are operating	0.173	172.5 total
(CC) When one (1) boiler is operating	0.345	172.5 total
(ii) During periods when Blast Furnace No. 13 Stoves are not combusting blast furnace gas:		
(AA) When three (3) boilers are operating	0.18	270.0 total
(BB) When two (2) boilers are operating	0.27	270.0 total
(CC) When one (1) boiler is operating	0.54	270.0 total
	<b>Emission Limit</b>	<b>Emission Limit</b>
	<b>lbs/ton</b>	<b>lbs/hour</b>
<b>(I) No. 2 Q-BOP Hot Metal Desulf Baghouse</b>	0.05	26.325
<b>(J) No. 1 BOP Desulfurization</b>	0.05	22.84
<b>(2) During specified periods:</b>		
<b>(A) Number 2 Coke Plant Boiler House Boiler Nos. 4 and 5:</b>		
(i) During periods when Blast Furnace No. 13 is combusting blast furnace gas and Turboblower Boiler House Boiler No. 4A and all Plate Mill Furnaces are not combusting coke oven gas:		
(AA) January through April	0.8475	286.5 total
(BB) May through October	1.183	400.0 total

(CC) November through December	0.905	306.0 total
(ii) During periods when Blast Furnace No. 13 is combusting blast furnace gas and Turboblower Boiler House Boiler No. 4A or any Plate Mill Furnace are combusting coke oven gas:		
(AA) January through April	0.592	200.0 total
(BB) May through October	1.095	370.0 total
(CC) November through December	0.716	242.0 total
(iii) During periods when Blast Furnace No. 13 is not combusting blast furnace gas and Turboblower Boiler House Boiler No. 4A or all Plate Mill Furnaces are not combusting coke oven gas:		
(AA) January through April	0.512	173.0 total
(BB) May through October	1.139	385.0 total
(CC) November through December	0.704	238.0 total
(iv) During periods when Blast Furnace No. 13 is not combusting blast furnace gas and Turboblower Boiler House Boiler No. 4A and any Plate Mill Furnace are combusting coke oven gas:		
(AA) January through April	0.683	231.0 total
(BB) May through October	1.139	385.0 total
(CC) November through December	0.575	194.4 total
(B) 84-inch Hot Strip Mill Waste Heat Boiler Nos. 1 and 2:		
(i) During periods when 84-inch Hot Strip Mill Continuous Reheat Furnace Nos. 1, 2, 3, or 4 are combusting coke oven gas	0.0006 each	0.1356 each
(ii) During periods when 84-inch Hot Strip Mill Continuous Reheat Furnace Nos. 1, 2, 3, and 4 are not combusting coke oven gas:		
(AA) When either Waste Heat Boiler No. 1 or 2 is operating	1.143	258.3
(BB) The remaining Waste Heat Boiler is limited to:		
(aa) January through April	0.779	176.0
(bb) May through October	0.885	200.0
(cc) November through December	0.557	126.0
(C) 84-inch Hot Strip Mill Continuous Reheat Furnace Nos. 1, 2, 3, and 4:		
(i) During periods when not combusting coke oven gas	0.0006 total	1.44 total
(ii) During periods when combusting coke oven gas and any Plate Mill Furnace is combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) furnaces are operating	0.197	472.0 total
(bb) When three (3) furnaces are operating	0.262	472.0 total
(cc) When two (2) or fewer furnaces are operating	0.393	472.0 total
(BB) May through October:		
(aa) When four (4) furnaces are operating	0.243	583.0 total
(bb) When three (3) furnaces are operating	0.324	583.0 total
(cc) When two (2) or fewer furnaces are operating	0.486	583.0 total
(CC) November through December:		
(aa) When four (4) furnaces are operating	0.179	430.0 total
(bb) When three (3) furnaces are operating	0.239	430.0 total
(cc) When two (2) or fewer furnaces are operating	0.358	430.0 total
(iii) During periods when combusting coke oven gas and none of the Plate Mill Furnaces are combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) furnaces are operating	0.263	630.0 total

(bb) When three (3) furnaces are operating	0.350	630.0 total
(cc) When two (2) or fewer furnaces are operating	0.525	630.0 total
(BB) May through October:		
(aa) When four (4) furnaces are operating	0.291	698.0 total
(bb) When three (3) furnaces are operating	0.388	698.0 total
(cc) When two (2) or fewer furnaces are operating	0.582	698.0 total
(CC) November through December:		
(aa) When four (4) furnaces are operating	0.224	537.0 total
(bb) When three (3) furnaces are operating	0.298	537.0 total
(cc) When two (2) or fewer furnaces are operating	0.448	537.0 total
(D) Turboblower Boiler House Boiler Nos. 1, 2, 3, and 5:		
(i) During periods when any Plate Mill Furnace and Turboblower Boiler House Boiler No. 4A is combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) boilers are operating	0.288	472.5 total
(bb) When three (3) boilers are operating	0.384	472.5 total
(cc) When two (2) or fewer boilers are operating	0.576	472.5 total
(BB) May through October:		
(aa) When four (4) boilers are operating	0.3475	570.0 total
(bb) When three (3) boilers are operating	0.4634	570.0 total
(cc) When two (2) or fewer boilers are operating	0.695	570.0 total
(CC) November through December:		
(aa) When four (4) boilers are operating	0.1116	183.2 total
(bb) When three (3) boilers are operating	0.149	183.2 total
(cc) When two (2) or fewer boilers are operating	0.2235	183.2 total
(ii) During periods when any Plate Mill Furnace is combusting coke oven gas and Turboblower Boiler House Boiler No. 4A is not combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) boilers are operating	0.3955	648.75 total
(bb) When three (3) boilers are operating	0.5274	648.75 total
(cc) When two (2) or fewer boilers are operating	0.791	648.75 total
(BB) May through October:		
(aa) When four (4) boilers are operating	0.5259	862.5 total
(bb) When three (3) boilers are operating	0.7012	862.5 total
(cc) When two (2) or fewer boilers are operating	1.0518	862.5 total
(CC) November through December:		
(aa) When four (4) boilers are operating	0.2085	342.0 total
(bb) When three (3) boilers are operating	0.278	342.0 total
(cc) When two (2) or fewer boilers are operating	0.417	342.0 total
(iii) During periods when no Plate Mill Furnace is combusting coke oven gas and Turboblower Boiler House Boiler No. 4A is combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) boilers are operating	0.5285	866.7 total
(bb) When three (3) boilers are operating	0.7046	866.7 total
(cc) When two (2) or fewer boilers are operating	1.057	866.7 total
(BB) May through October:		
(aa) When four (4) boilers are operating	0.6982	1,145.1 total



(bb) When three (3) boilers are operating	0.931	1,145.1 total
(cc) When two (2) or fewer boilers are operating	1.270	1,145.1 total
(CC) November through December:		
(aa) When four (4) boilers are operating	0.1541	252.7 total
(bb) When three (3) boilers are operating	0.2054	252.7 total
(cc) When two (2) or fewer boilers are operating	0.3082	252.7 total
(iv) During periods when no Plate Mill Furnace is combusting coke oven gas and Turbobl原因er Boiler House Boiler No. 4A is not combusting coke oven gas:		
(AA) January through April:		
(aa) When four (4) boilers are operating	0.5216	855.5 total
(bb) When three (3) boilers are operating	0.6955	855.5 total
(cc) When two (2) or fewer boilers are operating	1.0433	855.5 total
(BB) May through October:		
(aa) When four (4) boilers are operating	0.900	1,476.0 total
(bb) When three (3) boilers are operating	1.200	1,476.0 total
(cc) When two (2) or fewer boilers are operating	1.270	1,476.0 total
(CC) November through December:		
(aa) When four (4) boilers are operating	0.2519	413.1 total
(bb) When three (3) boilers are operating	0.3359	413.1 total
(cc) When two (2) or fewer boilers are operating	0.5038	413.1 total
(E) Coal Car Bottom Thaw Shed:		
(i) January through April	1.270	31.8
(ii) May through October	0.0	0.0
(iii) November through December	1.270	15.8
(F) No. 13 Blast Furnace Casthouse, when No. 13 Blast Furnace is 0.6 pound per ton combusting blast furnace gas		270

(b) The following sulfur dioxide emission limitations shall apply when the coke oven gas desulfurization facility is operating:

Facility Description	Emission Limit lbs/mmBtu	Emission Limit lbs/hour
(1) Turbobl原因er Boiler House:		
(A) Boilers Nos. 1, 2, 3, and 5	0.427	700.0 total
(B) Boiler No. 4A	0.260	63.5
(C) Boiler No. 6	0.115	81.7
(2) Number 4 Boiler House Boiler Nos. 1, 2, and 3	0.310	465.0 total
(3) Number 2 Coke Plant Boiler House:		
(A) Boiler Nos. 1 and 2	0.0006 each	0.162 total
(B) Boiler No. 3	0.260	40.6
(C) Boiler Nos. 4 and 5	0.260 each	87.9 total
(D) Boiler No. 6	0.260	44.0
(E) Boiler No. 7	0.260	42.1
(F) Boiler No. 8	0.260	64.7
(4) Coke Battery Number 2, 3, 5, and 7 Underfiring:		
(A) Nos. 2 and 3	0.260	51.5 each
(B) Nos. 5 and 7	0.260	29.9 each
(5) Blast Furnace Stove Stacks:		
(A) Nos. 4 and 6	0.115	40.3 each

(B) No. 8	0.115	37.4
(C) No. 13	0.110	93.5
<b>(6) 84-inch Hot Strip Mill:</b>		
(A) Waste Heat Boiler Nos. 1 and 2	0.260	58.8 each
(B) Continuous Reheat Furnaces Nos. 1, 2, 3, and 4	0.182	436.5 total
<b>(7) Plate Mill Furnaces:</b>		
(A) Continuous Reheat Furnace Nos. 1 and 2	0.260	104.0 total
(B) Batch Reheat Furnace Nos. 5 and 7	0.260	10.4 total
(C) Batch Reheat Furnace Nos. 6 and 8	0.260	19.5 total
(8) Coal Car Bottom Thaw Shed	0.260	6.5
(9) Number 3 Sinter Plant Windbox Gas Cleaning Systems		200
(10) Coke Oven Gas Desulfurization Facility Tail Gas Incinerator		295
(11) No. 13 Blast Furnace Casthouse	0.6	270
(12) No. 2 Q-BOP Hot Metal Desulf Baghouse	0.05	26.325
(13) No. 1 BOP Desulfurization	0.05	22.84

(c) U. S. Steel-Gary Works shall comply with additional sulfur dioxide emission requirements as follows:

(1) For any production period for which the coke oven gas desulfurization operation is not desulfurizing coke oven gas, U.S. Steel shall make available to the department, upon request, process and fuel use information pertaining to all sulfur dioxide emission points. The information shall include, at a minimum, for each facility, process or combustion unit identified in this section, the following:

(A) Identification of the applicable limit.

(B) The amount and type of each fuel used for each facility for each calendar day of operation.

(C) The operating scenario chosen for the U. S. Steel-Gary Works.

(D) The hourly sulfur dioxide emission rate calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by twenty-four (24) hours.

(E) The total twenty-four (24) hour emission rate from each emission point.

(F) Descriptive information on the procedures or methods that were used to achieve compliance with each sulfur dioxide limit.

(2) U. S. Steel shall provide to the department, in the monthly compliance exception report, the actual hours during which the coke oven gas facility was not operating.

(3) Record keeping requirements as follows:

(A) U.S. Steel-Gary Works shall maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in this rule.

(B) U.S. Steel-Gary Works shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the actual heat input for the 84-inch Hot Strip Mill and Plate Mill Furnaces.

(C) U.S. Steel-Gary Works shall submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million British thermal units (Btu), and in pounds per hour, for each combustion unit, furnace, boiler or process operation at each facility for each day for all facilities listed in this rule. For each combustion unit, furnace, boiler or process operation at each facility for each day during the calendar quarter, U.S. Steel shall submit to the department within thirty (30) days of the end of the calendar quarter, the actual fuel usage for each day, and any violations of the limitations established in this rule.

(4) The following facilities shall burn natural gas and shall be limited to three-tenths (0.3) pound per million Btu:

(i) Number 1 BOP shop ladle preheaters/dryers.

(ii) Number 2 Q BOP shop ladle preheaters/dryers.

(Air Pollution Control Board; 326 IAC 7-4.1-21)

SECTION 5. 326 IAC 7-4-1.1 IS REPEALED.

*Notice of First Meeting/Hearing*

*These rules are not scheduled for hearing at this time. When the public hearing is scheduled, it will be noticed in the Change of Notice section of the Indiana Register.*

*Additional information regarding this action may be obtained from Chris Pedersen, Rules Development Section, Office of Air Quality, (317) 233-6868 or (800) 451-6027, press 0, and ask for 3-6868 (in Indiana).*

*Copies of these rules are now on file at the Office of Air Quality, Indiana Department of Environmental Management, Indiana Government Center-North, 100 North Senate Avenue, Tenth Floor, Indianapolis, Indiana and are open for public inspection.*