

APPENDIX F

REVISED SULFUR DIOXIDE RULES

326 IAC 7

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TITLE 326 AIR POLLUTION CONTROL DIVISION

Final Rule

LSA Document #11-356(F)

DIGEST

Amends [326 IAC 7-2-1](#), [326 IAC 7-4-2](#), [326 IAC 7-4-3](#), and [326 IAC 7-4-11](#) concerning sulfur dioxide (SO₂) emission limitations. Adds [326 IAC 7-1.1-3](#), [326 IAC 7-4-2.1](#), [326 IAC 7-4-3.1](#), [326 IAC 7-4-11.1](#), and [326 IAC 7-4-15](#) concerning the new 1-hour SO₂ National Ambient Air Quality Standard (NAAQS). Repeals [326 IAC 7-4-2](#), [326 IAC 7-4-3](#), and [326 IAC 7-4-11](#). Partially effective 30 days after filing with the Publisher and partially effective January 1, 2017.

HISTORY

First Notice of Comment Period: June 29, 2011, Indiana Register (DIN: [20110629-IR-326110356FNA](#)).

Continuation of First Notice of Comment Period: September 25, 2013, Indiana Register (DIN: [20130925-IR-326110356FCA](#)).

Second Notice of Comment Period: September 10, 2014, Indiana Register (DIN: [20140910-IR-326110356SNA](#)).

Notice of First Hearing: September 10, 2014, Indiana Register (DIN: [20140910-IR-326110356PHA](#)).

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Proposed Rule: April 22, 2015, Indiana Register (DIN: [20150422-IR-326110356PRA](#)).

Notice of Second Hearing: April 22, 2015, Indiana Register (DIN: [20150422-IR-326110356PHA](#)).

Date of Second Hearing: July 8, 2015.

[326 IAC 7-1.1-3](#); [326 IAC 7-2-1](#); [326 IAC 7-4-2](#); [326 IAC 7-4-2.1](#); [326 IAC 7-4-3](#); [326 IAC 7-4-3.1](#); [326 IAC 7-4-11](#); [326 IAC 7-4-11.1](#); [326 IAC 7-4-15](#)

SECTION 1. [326 IAC 7-1.1-3](#) IS ADDED TO READ AS FOLLOWS:

[326 IAC 7-1.1-3](#) Compliance date

Authority: [IC 13-14-8](#); [IC 13-17](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 3. The emission limitations in [326 IAC 7-4-2.1](#), [326 IAC 7-4-3.1](#), [326 IAC 7-4-11.1](#), and [326 IAC 7-4-15](#) are effective January 1, 2017.

(Air Pollution Control Division; [326 IAC 7-1.1-3](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 2. [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, "weighting 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 weighting factor divided by the summation of the weighting factors.

(c) Owners or operators of sources or emissions units subject to [326 IAC 7-1.1](#), [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 (MMBtu) per hour shall submit quarterly reports of the thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per MMBtu. Records of the daily average coal sulfur content, coal heat content, weighting factor, and daily average sulfur dioxide emission rate in pounds per MMBtu 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) MMBtu 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 MMBtu 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 MMBtu upon request.

(d) 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. 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* unless other emission factors based on site-specific sulfur dioxide measurements are approved by the commissioner and 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) MMBtu per hour, compliance shall be determined using a thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per MMBtu unless a shorter averaging time or alternate averaging methodology is specified for a source under this article.

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

(e) Subsection (c) does not apply when continuous emission monitoring data collected and reported under [326 IAC 3-5](#) is used as the means for determining compliance with the emission limitations in this article.

(f) Owners or operators of sources or emission units subject to a restriction on the number of operating hours in [326 IAC 7-4](#) shall maintain, and make available to the department upon request, a log of operating hours for each emission unit.

(g) When determining compliance using continuous emission monitoring data, the diluent cap methodology under 40 CFR 75 may be used to calculate emissions in lbs/MMBtu.

(h) Compliance or noncompliance with the emission limitations contained in [326 IAC 7-1.1](#) or [326 IAC 7-4](#) may be determined by an appropriate method as follows:

(1) A stack test conducted in accordance with [326 IAC 3-6](#) using procedures in 40 CFR 60, Appendix A, Method 6*, 6A*, 6C*, or 8*.

(2) A continuous emission monitoring system in accordance with [326 IAC 3-5](#).

(3) Source sampling in accordance with [326 IAC 3-6](#).

(4) Fuel sampling and analysis data collected in accordance with subsection (d) or [326 IAC 3-7](#).

(5) Other methods approved by the commissioner and U.S. EPA.

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

(Air Pollution Control Division; [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; filed Aug 26, 2004, 11:30 a.m.: 28 IR 42; filed May 25, 2005, 10:50 a.m.: 28 IR 2953; filed Aug 11, 2011, 1:54 p.m.: [20110907-IR-326050330FRA](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 3. [326 IAC 7-4-2](#) IS AMENDED TO READ AS FOLLOWS:

[326 IAC 7-4-2](#) Marion County sulfur dioxide emission limitations before January 1, 2017

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#)Affected: [IC 13-12](#); [IC 13-14-4-3](#); [IC 13-16-1](#)

Sec. 2. The following **Before January 1, 2017**, sources and facilities **emission units** located in Marion County shall comply with the sulfur dioxide emission limitations in pounds per million Btu (lbs/MMBtu) and pounds per hour (lbs/hr), unless otherwise specified, and other requirements, **as follows**:

Source	Facility Emission Unit Description	Emission Limitations lbs/MMBtu	Emission Limitations lbs/hr
(1) Acustar	Boiler 1	2.82	109.98
	Boiler 2	2.82	109.98
	Boiler 3	2.82	109.98
(2) Allison Gas Turbine-Plant 5	Boiler 1	3.99	299.4
	Boiler 2	3.99	299.4
	Boiler 3	3.99	299.4
	Boiler 4	3.99	299.4
(3) Amtrak	Boilers 61 and 62	3.30	208.15
(4) Bridgeport Brass	Boiler 1	3.55	135.8
	Boiler 2	3.55	135.8
	Boiler 3	3.55	135.8
(5) Central Soya	Boiler	4.32	272.0
(6) Central State	Boiler 3	3.39	111.8
	Boiler 7	3.39	169.5
	Boiler 8	3.39	169.5
(7) Detroit Diesel Allison-Plant 3	Boiler 1	1.88	67.6
	Boiler 2	1.88	67.6
	Boiler 3	1.88	90.2
	Boiler 4	1.88	135.2
	Boiler 5	1.88	180.3
(8) Diamond-Bathurst	#2 Furnace	1.40 pounds per ton	20.22
(9) Ford	Boiler 1	2.43	177.38
	Boiler 2	2.43	354.77
	Boiler 3	2.43	354.77
(10) Fort Harrison	Boiler 1	2.92	151.84
	Boiler 2	2.92	151.84
	Boiler 3	2.92	151.84
	Boiler 4	2.92	151.84
(11) G.M. Truck & Bus Group	Boiler 1	2.31	187.1
	Boiler 2	2.31	187.1
	Boiler 3	2.31	106.3
(12) Indiana Girls School	Boiler	6.00	46.9
(13) IPL-Perry W	Boiler 17	6.0	1,320.0
	Boiler 18	6.0	1,320.0
(14) Indianapolis Sludge Incinerator (1) Belmont Advanced Wastewater Treatment Plant Source ID No. 00032	(A) Incinerator 1	2.0 pounds per ton	14.19
	(B) Incinerator 2	2.0 pounds per ton	14.19
	(C) Incinerator 3	2.0 pounds per ton	14.19
	(D) Incinerator 4	2.0 pounds per ton	14.19
	Incinerator 5	2.0 pounds per ton	14.19
	Incinerator 6	2.0 pounds per ton	14.19
	Incinerator 7	2.0 pounds per ton	14.19
	Incinerator 8	2.0 pounds per ton	14.19
(15) Marathon Petroleum-Indiana Refining Division	H-H1	1.92	36.46
	H-H2	1.92	36.46
	H-H3	1.92	38.38
	P-H1	1.92	89.03

	P-H2	1.92	82.12
	P-H3	1.92	30.32
	P-H4	1.92	33.19
	P-H5	1.92	9.98
	Alky-Reboiler	1.92	53.15
	Crude Heater	1.92	268.05
	Vacuum Heater	1.92	99.20
	Sulfur Recovery	189.0 pounds per ton sulfur	88.17
	FGC (Proc)	3.92 pounds per ton	506.37
	GO-Boiler	1.92	228.72
	FGC Chg. Htr.	1.92	88.26
	GH-1	1.92	81.36
(16) Navistar	Boiler-1	2.98	193.72
	Boiler-2	2.98	193.72
	Boiler-3	2.98	193.72
(17) Quaker Oats	Boiler-1	2.79	195.3
	Boiler-2	2.79	195.3
	Murray Boiler	0.50	50.1
(18) (2) Quemetco Source ID No. 00079	Reverberatory Furnace	24.6 pounds per ton	617.0
(19) Refined Metals	Blast Furnace	10.8 pounds per ton	64.8
(20) Reilly Industries (3) Vertellus Agriculture and Nutrition Specialties Source ID No. 00315	(A) 2722 W	1.25	114.75
	(B) 2726 S	1.25	49.1
	(C) 186 N	1.25	46.0
	(D) 2707 V	1.25	20.0
	(E) 112 E	0.0**	0.0**
	2710-P	0.0**	0.0**
	Riley	1.25	64.75
	B & W	1.25	49.1
	(F) 2724 W	1.25	26.3
	(G) 2714 V	1.25	18.8
	(H) 2729 Q	1.25	3.8
	(I) 2740 Q	1.25	7.5
	(J) 732714	1.25	45.0
	(K) 2728 S	1.25	7.5
	(L) Still	0.0** less than 0.05	0.0**
	(M) Kettle	0.0** less than 0.05	0.0**
	(N) 2607 T	0.0** less than 0.05	0.0**
	702614	0.0**	0.0**
	(O) 722804	0.0** less than 0.05	0.0**
	(P) 2706 Q	0.0** less than 0.05	0.0**
	2713-W	0.0**	0.0**
	2714-W	0.0**	0.0**
	2720-W	0.0**	0.0**
(21) Rexnord-Link Belt Bearing	Boiler-A	3.28	101.7
	Boiler-B	3.28	101.7
	Boiler-C	0.0*	0.0*
(22) Rexnord-Link Belt Chain	Boiler-1	3.68	117.8
	Boiler-2	3.68	117.8
	Boiler-3	3.68	117.8

(23) Thomson Consumer Electronics	Boiler 1	1.95	39.0
	Boiler 2	1.95	39.0
	Boiler 3	1.95	146.3
	Boiler 4	1.95	146.3
(24) Union Carbide	Boiler 1	3.85	92.4
	Boiler 2	3.85	106.6
	Boiler 3	3.85	148.2
(25) Western Select Properties	Boiler 2	2.52	189.06
	Boiler 3	2.52	189.06
	Boiler 4	2.52	189.06
	Boiler 5	2.52	252.07
(26) Wishard	Boiler 1	4.04	105.0
	Boiler 2	4.04	105.0
	Boiler 3	4.04	105.0

****Less than 0.05**

(27) Allison Gas Turbine Operations **(4) Rolls-Royce Corporation** Plant 8, **Source ID No. 00311**, shall comply with the sulfur dioxide emission limitations provided in clause (A) or (B) and other requirements as follows:

(A) **Babcock and Wilcox Boilers 2 through 11 3 (0070-58), 4 (0070-59), and Combustion Engineering Boilers 7 through 10 (0070-62 through 0070-65) may burn either:**

(i) natural gas at any time; or

~~(B) Babcock and Wilcox Boilers 2 through 6 and Combustion Engineering Boilers 7 through 11 may burn~~
(ii) fuel oil with a sulfur dioxide emission limitation of two and one-tenth (2.1) lbs/MMBtu each during periods when one (1) of the following conditions is met either

~~(i) Fuel oil is burned in no more than three (3) Babcock and Wilcox boilers, and fuel oil is not burned in any combustion engineering boiler.~~

~~(ii) fuel oil is burned in no more than:~~

(AA) two (2) Babcock and Wilcox boilers and no more than two (2) combustion engineering boilers; or

~~(iii) Fuel oil is burned in no more than~~ **(BB) one (1) Babcock and Wilcox boiler and no more than three (3) combustion engineering boilers.**

~~(C) (B)~~ A log of hourly operational status and fuel type for each boiler shall be maintained at the plant and made available to the department upon request.

(C) A daily summary of operating status and fuel type for each boiler for each day of a calendar quarter shall be submitted to the department on a quarterly basis.

~~(D) Allison Gas Turbine Operations~~ **Rolls-Royce Corporation** Plant 8 shall ~~erect~~ **maintain** a twenty (20) foot stack extension with a diameter at the extension outlet of four (4) feet for each stack serving Boilers 2 through 6 in accordance with the following schedule:

~~(i) Complete design, specifications, and construction drawings and award contracts by August 2, 1988.~~

~~(ii) Complete installation of stack extensions by December 2, 1988. 3 (0070-58) and 4 (0070-59).~~

(28) Indianapolis Power and Light **(5) Citizens Thermal, C.C. Perry K Steam Plant, Source ID No. 00034**, shall comply with the sulfur dioxide emission limitations in lbs/MMBtu and other requirements as follows:

Boiler Number	Emission Limitations
(A) 17 and 18	0.3
(B) 11, 12, 13, 14, 15, and 16	2.1

(A) Boiler numbers 17 and 18 shall not exceed three-tenths (0.3) lbs/MMBtu.

(B) Boiler numbers 11, 12, 13, 14, 15, and 16 shall not exceed two and one-tenth (2.1) lbs/MMBtu.

(C) As an alternative to the emission limitations in clause (B), sulfur dioxide emissions from Boilers 11, 12, 13, 14, 15, and 16 may comply with any one (1) of the sets of emission limitations in lbs/MMBtu as follows:

Boiler Number	Emission Limitations
(i) 13, 14, 15, and 16	0.0
11 and 12	4.4
(ii) 11, 12, 15, and 16	0.0
13 and 14	4.4
(iii) 11, 12, 13, and 14	0.0
15 and 16	4.4
(iv) 11, 12, 15, and 16	3.0
13 and 14	0.3

(v) 11 and 12	0.3
13, 14, 15, and 16	3.0

(D) ~~Citizens Thermal shall notify~~ the department ~~or the Indianapolis Air Pollution Control Division shall be notified prior to the reliance use by Indianapolis Power and Light on Citizens Thermal of any one (1) of the sets of alternative emission limitations specified in clause (C).~~

(E) A log of hourly operating status for each boiler shall be maintained and made available to the department upon request.

(F) A daily summary indicating which boilers were in service during the day shall be submitted to the department quarterly. In addition, records of the daily average sulfur content, heat content, and sulfur dioxide emission rate for each day in which an alternative set of emission limitations specified in clause (C) is used shall be submitted to the department quarterly.

~~(F) (G) For the purposes of 326 IAC 7-2-1(e)(1), 326 IAC 7-2-1(d)(1), during thirty (30) day periods in which Indianapolis Power and Light Citizens Thermal relies on more than one (1) set of emission limitations specified in clauses (B) through and (C), a separate thirty (30) day rolling weighted average for each set of limitations shall be determined. Each thirty (30) day rolling weighted average shall be based on data from the previous thirty (30) operational days within the last ninety (90) days for that set of limitations. If Indianapolis Power and Light Citizens Thermal does not operate thirty (30) days under any one (1) set of limitations within the last ninety (90) days, the rolling weighted average shall be based on all operational days within the last ninety (90) days for that set of limitations.~~

~~(G) Boilers 11 through 16 shall be limited to six and zero tenths (6.0) lbs/MMBtu each until Boilers 11 through 16 achieve compliance with the sulfur dioxide emission limitations specified in clauses (B) through (C). Compliance with the emission limitations specified in clauses (B) through (C) shall be achieved according to the following schedule:~~

~~(i) Complete engineering analysis of modifications by April 2, 1988.~~

~~(ii) Complete testing and design of modifications and place orders for necessary equipment by May 2, 1989.~~

~~(iii) Complete installation of necessary equipment and achieve compliance with emission limitations specified in clauses (B) through (C) by June 2, 1990.~~

~~(29) (6) Indianapolis Power and & Light Stout Company Harding Street Generating Station, Source ID No. 00033, shall comply with the sulfur dioxide emission limitations in lbs/MMBtu and other requirements as follows:~~

Boiler/Turbine Number	Emission Limitations
(A) Boiler 70	5.3
(B) Boilers 50 and 60	4.7
Boilers 1 through 8	0.0
Boilers 9 and 10 and Gas Turbines 1, 2, and 3	0.35

~~(C) As an alternative to the emission limitations in clause (B), sulfur dioxide emissions from Boilers 50, 60, and 1 through 10 and Gas Turbines 1, 2, and 3 may comply with any one (1) of the sets of emission limitations in lbs/MMBtu as follows:~~

Boiler/Turbine Number	Emission Limitations
(i) Boilers 50 and 60	5.2
Boilers 1 through 10 and Gas Turbines 1, 2, and 3	0.0
(ii) Boilers 50 and 60	5.0
Boilers 1 through 10	0.0
Gas Turbines 1, 2, and 3	0.4
(iii) Boilers 50 and 60	4.1
Boilers 1 through 8	0.26
Boilers 9 and 10	0.35
Gas Turbines 1, 2, and 3	0.3
(iv) Boilers 50 and 60	3.9
Boilers 1 through 8	0.34
Boilers 9 and 10 and Gas Turbines 1, 2, and 3	0.35

~~(D) Indianapolis Power & Light Company shall notify~~ the department ~~or the Indianapolis Air Pollution Control Division shall be notified prior to the reliance use by Indianapolis Power and & Light on Company of any one (1) of the sets of alternative emission limitations specified in clause (C).~~

~~(E) A log of hourly operating status for each boiler shall be maintained and made available to the department upon request.~~

~~(F) A daily summary indicating which boilers were in service during the day shall be submitted to the~~

department quarterly. In addition, records of the daily average sulfur content, heat content, and sulfur dioxide emission rate for each day in which an alternative set of emission limitations specified in clause (C) is used shall be submitted to the department quarterly.

(F) (G) For the purposes of [326 IAC 7-2-1\(e\)\(1\)](#), [326 IAC 7-2-1\(d\)\(1\)](#), during thirty (30) day periods in which Indianapolis Power and Light Company relies on more than one (1) set of emission limitations specified in clauses (B) through and (C), a separate thirty (30) day rolling weighted average for each set of limitations shall be determined. Each thirty (30) day rolling weighted average shall be based on data from the previous thirty (30) operational days within the last ninety (90) days for that set of limitations. If Indianapolis Power and Light Company does not operate thirty (30) days under any one (1) set of limitations within the last ninety (90) days, the rolling weighted average shall be based on all operational days within the last ninety (90) days for that set of limitations.

(G) (H) Indianapolis Power and Light Company shall install and maintain a stack diameter restriction for the stack serving Boilers 50 and 60. The stack diameter restriction shall reduce the diameter to six and one-half (6 1/2) feet at the tip of the stack. The installation of the stack diameter restriction shall be in accordance with the following schedule:

(i) Complete preliminary design of modifications by December 2, 1988.

(ii) Place orders for necessary modification by July 2, 1989.

(iii) Complete installation by February 2, 1990.

(30) Citizens Gas & Coke Utility shall comply with the sulfur dioxide emission limitations, depending on which battery or combination of batteries are in operation, as follows:

Description	Emission Limitations (lbs/ton of coal)	Emission Limitations (lbs/hour)
(A) Batteries 1, E, & H	0.67	78.02
(B) Battery 1	0.23	15.70
(C) Batteries 1 & E	0.49	46.86
(D) Batteries 1 & H	0.50	46.86
(E) Batteries E & H	0.79	62.32
(F) Battery E	0.79	31.16
(G) Battery H	0.79	31.16

(H) The department and the Indianapolis office of environmental services shall be notified in writing prior to the reliance by Citizens Gas & Coke Utility on an emission limitation other than clause (A).

(I) Gas used for underfiring Battery 1 shall not exceed twenty (20) grains of H₂S per one hundred (100) standard cubic feet.

(J) Citizens Gas & Coke Utility shall desulfurize the coke oven gas produced by Batteries 1, E, and H.

(K) Citizens Gas & Coke Utility shall monitor the hydrogen sulfide (H₂S) content of the coke oven gas used for underfiring each battery by sampling and analyzing the coke oven gas for H₂S content at least once per day. The H₂S content of the gas shall be sampled using Determination of Hydrogen Sulphide Content, Cadmium Acetate Method, Method Number DIN 51855 Part 4 (January 1979)*.

(L) Sulfur dioxide emissions in pounds per tons of coal (lbs/ton of coal) and pounds per hour (lbs/hr) shall be calculated using the data on H₂S content and organic sulfur content in the coke oven gas. The total sulfur dioxide emissions shall include all sulfur compounds. Citizens Gas & Coke Utility shall submit to the department and the Indianapolis office of environmental services within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per tons of coal (lbs/ton of coal) and pounds per hour (lbs/hr) for each day during the calendar quarter.

(M) All monitoring and testing data and results shall be recorded, and all records shall be kept for a period of three (3) years. Citizens Gas & Coke Utility shall submit the monitoring and testing records to the department upon request.

*These documents are incorporated by reference. Copies 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 7-4-2](#); filed Aug 28, 1990, 4:50 p.m.: 14 IR 65; filed Feb 9, 1999, 4:22 p.m.: 22 IR 1959; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Feb 20, 2007, 3:15 p.m.: [20070321-IR-326050118FRA](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 4. [326 IAC 7-4-2.1](#) IS ADDED TO READ AS FOLLOWS:

[326 IAC 7-4-2.1](#) Marion County sulfur dioxide emission limitations

Sec. 2.1. (a) On and after January 1, 2017, sources and emission units located in Marion County shall comply with the sulfur dioxide emission limit and other requirements, as follows:

Source	Emission Unit Description	Emission Limit (lbs/hour) or Other Requirements	Emission Limit (lbs/MMBtu)
(1) Citizens Thermal - Perry K Source ID No. 00034	(A) Boiler 11	73.6	0.2
	(B) Boiler 13	80.6	0.2
	(C) Boiler 14	80.6	0.2
	(D) Boilers 12, 15, and 16	Burn natural gas	
	(E) Boiler 17	72.6	0.3
	(F) Boiler 18	72.6	0.3
(2) Belmont Advanced Wastewater Treatment Plant Source ID No. 00032	Incinerator 1, Incinerator 2, Incinerator 3, and Incinerator 4	Comply with SO ₂ limit in 40 CFR 60, Subpart MMMM* or 40 CFR 60, Subpart LLLL*	
(3) Rolls-Royce Source ID No. 00311	(A) Boiler 0070-58	0.07	0.0015
	(B) Boiler 0070-59	0.07	0.0015
	(C) Boiler 0070-62	0.37	0.0015
	(D) Boiler 0070-63	0.37	0.0015
	(E) Boilers 0070-64	Burn natural gas or landfill gas	0.01
	(F) Boiler 0070-65	Burn natural gas or landfill gas	0.01
	(G) Generating Turbine 0070-80	Burn natural gas or landfill gas	0.01
	(H) 2 Gas Turbine Engines 0070-66		0.1
	(I) 12 Gas Turbine Engines 0070-67		0.05
	(J) 3 Gas Turbine Engines 0070-68c, 0070-68d, and 0070-68e		0.05
	(K) 2 Gas Turbine Engines 0070-68a and 0070-68b	Burn natural gas	
	(L) 3 Gas Turbine Engines 0070-69		0.05
	(M) Three Shack Heaters 0070-70	Burn natural gas	
	(N) Rental Generators		0.0015
	(O) Engine Test Cells Plant 5		0.05
	(P) Engine Test Cell Plant 8		0.1
	(Q) Engine Test Cell N20	18 foot vertical stack, if operating	
	(R) Engine Test Cell N21	20 foot vertical stack, if operating	
	(S) Engine Test Cell N23	30 foot vertical stack, if operating	
	(T) Engine Test Cell N24	20 foot vertical stack, if operating	
(4) Vertellus Agriculture and Nutrition Specialties Source ID No. 00315	(A) 70K Boiler 70-2722W	18.4	0.20
	(B) 30K Boiler 30-2726S	9.8	0.25
	(C) 28K Boiler 28-186N	9.9	0.27
	(D) Boiler CB-70K	Burn natural gas	
	(E) BM Furnace BM2724W	1.1	0.05
	(F) Box Furnace BX2707V	0.8	0.05
	(G) DAB Furnace 732714	2.8	0.05

	(H) Born Heater 722804	0.34	0.05
	(I) Born Heater Furnace BXS2706Q	0.3	0.05
	(J) EP Furnace EP2729Q	0.15	0.05
	(K) CB20 CB600-300 Boiler	2.3	0.09
	(L) 50K CN5-400 Boiler	5.5	0.09
	(M) BD Furnace BD2714V	0.75	0.05
	(N) Heater BS2740Q	0.3	0.05
	(O) Heater BT2728S	0.3	0.05
	(P) Furnace HW-925.001	12.25	1.25
	(Q) CS Kettle Born Heater	Burn natural gas	
	(R) CS Still Born Heater	Burn natural gas	
	(S) Born Hot Oil Furnace (Process Heater) Unit 2607T	Burn natural gas	
(5) Quemetco Source ID No. 00079	WESP Stack	52.0	
(6) Indianapolis Power & Light Co. - Harding Street Generating Station Source ID No. 00033	(A) Boiler 9	Do not operate	
	(B) Boiler 10	Do not operate	
	(C) Boiler 50	Burn natural gas	
	(D) Boiler 60	Burn natural gas	
	(E) Boiler 70	Burn natural gas	
	(F) Gas Turbine 1	29.9	0.1
	(G) Gas Turbine 2	29.9	0.1
	(H) Gas Turbine 4	87.5	0.1
	(I) Gas Turbine 5	86.7	0.1
	(J) Gas Turbine 6	Burn natural gas	
	(K) Emergency Generator	500 hour calendar year operating limit	

(b) Compliance with the emission limit in subsection (a)(5) shall be determined by using quality assured hourly average continuous emission monitoring system data.

*These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Air Pollution Control Division; [326 IAC 7-4-2.1](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 5. [326 IAC 7-4-3](#) IS AMENDED TO READ AS FOLLOWS:

[326 IAC 7-4-3](#) Vigo County sulfur dioxide emission limitations before January 1, 2017

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#)

Affected: [IC 13-12](#); [IC 13-14-4-3](#); [IC 13-16-1](#)

Sec. 3. The following **Before January 1, 2017**, sources and facilities **emission units** located in Vigo County shall comply with the sulfur dioxide emission limitations in pounds per million Btu, unless otherwise specified, and other requirements, **as follows**:

Source	Facility	Emission Unit Description	Emission Limitations
(1) Alcan Rolled Products Co.	Sol Oil Boiler		0.54
	Foil Mill Boiler		0.54
	Oil Farm Boiler		0.54
	#2 Melter		1.60
	#3 Melter		1.60
	#4 Melter		1.60
	#5 Melter		1.60

	#6 Melter	1.60
	#7 Melter	1.60
	#53 Annealing Furnaces	1.60
(2) Bemis	Boiler	0.51
(3) CBS	#1 WH CB200-200	0.51
	#2 WH CB200-200	0.51
	#1 HC CB293-100	0.51
	#2 HC CB M & W 4000	0.51
	#3 HC CB M & W 4000	0.51
	#1 BP Springfield	0.51
(4) CF Industries	Process Murray Boiler 1	0.52
	Process Murray Boilers 2 and 3	0.52
(5) (1) SONY Digital Audio Disc	(A) #1 Kewanee Boiler	0.36
Source ID No. 00032	(B) #2 Kewanee Boiler	0.36
(6) Drexler Foods Corp.	Boiler	2.62
(7) General Housewares	Boiler 1A Ladd	6.00
	Boiler 2A Combustion Eng.	6.00
	#5 Enamel Furnace Radiant Tube	0.51
	#6 Enamel Furnace Muffle	0.51
(8) Hercules, Inc. (2) Taghleef	(A) Murray Iron Works Boiler A	0.51
Industries Source ID No. 00045	(B) Murray Iron Works Boiler B	0.51
	(C) Clayton Boiler (Standby)	0.51
	(D) Nebraska Boiler	0.51
(9) Indiana State University	#2 Voight Boiler	5.64
	#3 Voight Boiler	5.64
	#5 B & W Boiler	5.64
	#4 Murray Boiler	0.37
(10) J.I. Case	No. 1 Riley Boiler	4.74
	No. 2 Riley Boiler	4.74
(11) Pfizer	Boiler 8	3.01
(12) Pillsbury (Terre Haute)	Boiler B	0.36
	Boiler C	2.62
	Boiler D	0.36
(13) Pitman Moore	#9, #10, and #15 Boilers	4.58
	#16 Boiler	0.36
	East Plant Boiler	0.36
(14) Public Service Indiana (3) Duke	Boilers 1, 2, 3, 4, 5, and 6	4.04
Energy Wabash River Source ID No. 00021		
(15) Rose-Hulman	#1 Voight Boiler	2.26
	#2 Cleaver Brooks Boiler	0.51
	#4 Cleaver Brooks Boiler	0.51
(16) St. Mary's Sisters of Providence	#2 Voight Boiler	3.84
	#3 B & N Boiler	3.84
	#5 B & N Boiler	3.84
	#7 Voight Boiler	3.84
	#8 Voight Boiler	3.84
(17) Snacktime Company	#1 Boiler	0.52
	#12 Boiler	0.52
	#2, #3, #4, and #6	0.52
	Fryer Oil Heaters	
(18) Terre Haute Coke and Carbon	2 CB Boilers	1.79
	2 Standby Boilers	4.55
	No. 1 CB Underfire Stack	0.63
	No. 2 CB Underfire Stack	0.63
(19) (4) Terre Haute Regional Hospital	(A) #1 Boiler	0.45
Source ID No. 00046	(B) (New) #2 Boiler	0.45

(20) (5) Union Hospital Energy Co.	2 Keeler Boilers	0.36
Source ID No. 00047	3 Cleaver Brooks Boilers	0.36
(21) U.S. Penitentiary	#1, #2, and #3 Boilers	0.54
	2 Honor Farm Boilers	0.54
(22) Wabash Fibre Box	Cleaver Brooks Boiler	2.36
(23) Wabash Products Co.	Boiler	natural gas only
(24) Western Tar	Tar Division, Boiler A	0.36
	Tar Division, Boiler B	0.36
	Wood Division, Boiler A	0.36
	Wood Division, Boiler B	0.36
	Tar Division, Process Still	0.36
(25) Weston Paper	B-1 and B-4 Boilers	4.09
	B-5 Warehouse Boiler	2.62

(Air Pollution Control Division; [326 IAC 7-4-3](#); filed Aug 28, 1990, 4:50 p.m.: 14 IR 70; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Aug 31, 2004, 2:30 p.m.: 28 IR 117; filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 6. [326 IAC 7-4-3.1](#) IS ADDED TO READ AS FOLLOWS:

[326 IAC 7-4-3.1](#) Vigo County sulfur dioxide emission limitations

Authority: [IC 13-14-8](#); [IC 13-17-3](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 3.1. (a) On and after January 1, 2017, sources and emission units located in Vigo County shall comply with the sulfur dioxide emission limits and other requirements, as follows:

Source	Emission Unit Description	Emission Limit (lbs/hour) or Other Requirements	Emission Limit (lbs/MMBtu)
(1) Wabash River Combined Cycle Source ID No. 00147	Combustion Turbine Unit 1A	333.76	0.195
(2) sgSolutions Source ID No. 00091	(A) Tail Gas Incinerator Stack EP1 (B) Process Flare Unit 2	230.6 500 hour calendar year operating limit on coal/syngas	
(3) SONY Digital Audio Disc Source ID No. 00032	(A) #1 Kewanee Boiler (B) #2 Kewanee Boiler (C) Unit 3 Burnham Boiler (D) Unit 4 Burnham Boiler (E) Unit 5 Superior Boiler (F) Unit 6 Superior Boiler (G) Unit 18 Boiler		0.05 0.05 0.05 0.05 0.05 0.05 0.05
(4) Taghleef Industries Source ID No. 00045	(A) Clayton Boiler (Standby) (B) Nebraska Boiler (C) Nebraska-D Boiler	0.03 0.05 Burn natural gas	0.0015 0.0015
(5) Terre Haute Regional Hospital Source ID No. 00046	(A) #1 Boiler (B) New #2 Boiler		0.45 0.45
(6) Union Hospital Source ID No. 00047	2 Keeler Boilers		0.36
(7) Duke Energy - Wabash River Generating Station Source ID No. 00021	(A) Boiler 6 (B) Diesel Generators 7A, 7B, and 7C	1,499.5 500 hour calendar year operating limit (each)	0.5 0.05

(b) Compliance with the emission limit in subsection (a)(1) shall be determined by using quality

assured hourly average continuous emission monitoring system data.

(c) Compliance with the emission limit in subsection (a)(2)(A) shall be determined by calculating the thirty (30) unit operating day rolling arithmetic average emission rate at the end of each unit operating day using all of the quality assured hourly average continuous emission monitoring system data for the previous thirty (30) unit operating days. Unit operating day means a twenty-four (24) hour period that begins at midnight and ends the following midnight during which the unit is operated. It is not necessary for the unit to be operating the entire twenty-four (24) hour period.

(Air Pollution Control Division; [326 IAC 7-4-3.1](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 7. [326 IAC 7-4-11](#) IS AMENDED TO READ AS FOLLOWS:

[326 IAC 7-4-11](#) Morgan County sulfur dioxide emission limitations before January 1, 2017

Authority: [IC 13-14-8](#); [IC 13-17-3](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 11. **Before January 1, 2017**, Indianapolis Power and & Light Company (IPL) Pritchard Eagle Valley Generating Station, **Source ID No. 00004**, shall comply with the sulfur dioxide emission limitations in pounds per million Btu and other requirements as follows:

Facility Emission Unit Description	Emission Limitations
(1) Units 1 and 2	0.37 each
(2) Units 3, 4, 5, and 6 on and before September 30, 1990	6.0 each
Unit 3 after September 30, 1990	0.37
(3) Units 4, 5, and 6 after September 30, 1990	3.04 each
(3) (4) As an exception to the emission limitations specified in subdivision subdivisions (2) and (3), after September 30, 1990, at any time in which IPL burns coal on Unit 3, sulfur dioxide emissions from Units 3, 4, 5, and 6 shall be limited to two and fifty-seven hundredths (2.57) pounds per million Btu each.	
(4) Prior to October 31, 1989, IPL shall modify (5) The two (2) stacks serving Units 3, 4, 5, and 6 to increase the height of each stack to shall be at least two hundred and eighty-one (281) feet above grade.	
(5) Prior to February 28, 1989, IPL shall submit completed engineering plans and drawings of flue gas conditioning systems for Units 4 and 5 to the department. Prior to May 31, 1990, IPL shall complete installation of flue gas conditioning systems for Units 4 and 5.	
(6) After September 30, 1990, on a day for which Unit 3 does not burn any coal, the limitations in subdivision subdivisions (2) and (3) are in effect, and compliance shall be determined as specified in 326 IAC 7-2-1(e) . 326 IAC 7-2-1(d) .	
(7) After September 30, 1990, on a day for which Unit 3 burns any coal, the limitations in subdivision (3) (4) are in effect. As an exception to the requirements of 326 IAC 7-2-1(e)(1) 326 IAC 7-2-1(d)(1) on a day for which Unit 3 burns any coal, if the thirty (30) day rolling weighted average for any unit is above two and fifty-seven hundredths (2.57) pounds per million Btu, then 326 IAC 7-2-1(e)(1) 326 IAC 7-2-1(d)(1) does not apply, and the daily average emission rate for that unit for that day shall not exceed two and fifty-seven hundredths (2.57) pounds per million Btu.	
(8) After September 30, 1990, for the purposes of determining compliance under 326 IAC 7-2-1(b) , 326 IAC 7-2-1(h)(1) , stack tests performed on Units 3, 4, 5, and 6 shall demonstrate compliance with the most stringent set of limits in effect at any time during the day prior to or during the test based on the Unit 3 operating status and fuel type as indicated by the log maintained pursuant to subdivision (9).	
(9) After September 30, 1990, IPL shall maintain and make available to the department upon request a log of the operating status and fuel type used for Unit 3. In addition, in the quarterly report required by 326 IAC 7-2-1(a) , 326 IAC 7-2-1(c) , IPL shall submit to the department a daily summary indicating fuel type for Unit 3, and, for days on which Unit 3 burned any coal and any thirty (30) day rolling weighted average was greater than two and fifty-seven hundredths (2.57) pounds per million Btu, IPL shall submit to the department the daily average sulfur content, heat content, and sulfur dioxide emission rate for Units 3, 4, 5, and 6.	

(Air Pollution Control Division; [326 IAC 7-4-11](#); filed Aug 28, 1990, 4:50 p.m.: 14 IR 76; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 8. [326 IAC 7-4-11.1](#) IS ADDED TO READ AS FOLLOWS:

326 IAC 7-4-11.1 Morgan County sulfur dioxide emission limitationsAuthority: [IC 13-14-8](#); [IC 13-17-3](#)Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 11.1. (a) On and after January 1, 2017, sources and emission units located in Morgan County shall comply with the sulfur dioxide emission limits and other requirements, as follows:

Source	Emission Unit Description	Emission Limit or Other Requirements	Emission Limit (lbs/MMBtu)
(1) Indianapolis Power & Light Company (IPL) - Eagle Valley Generating Station Source ID No. 00004	(A) Combined Cycle Combustion Turbine 1 including duct burners	Burn natural gas	
	(B) Combined Cycle Combustion Turbine 2 including duct burners	Burn natural gas	
	(C) Auxiliary Boiler	Burn natural gas	
	(D) Dew Point Heater	Burn natural gas	
(2) Hydraulic Press Brick Company (HPB) Source ID No. 00007	(A) Kiln 3	Do not operate	
	(B) Kiln 4	Minimum control efficiency of 50% or 2.5 lbs/MMBtu, whichever is less stringent	6.0
	(C) Kiln 5	Minimum control efficiency of 50% or 2.5 lbs/MMBtu, whichever is less stringent	6.0

(b) HPB shall comply with the sulfur dioxide emission limits in subsection (a)(2) as follows:

(1) The emission limit applies to sulfur dioxide emissions from both the combustion of coal and the processing of shale.

(2) Monthly fuel sampling and analysis data shall be collected according to [326 IAC 7-2-1](#) for both coal and shale.

(3) HPB shall install and operate a limestone injection system to control sulfur dioxide emissions from Kiln 4 and Kiln 5.

(4) Compliance with the control efficiency limit in subsection (a)(2) shall be based on measured sulfur content in the shale and fuel compared to the outlet SO₂ concentration determined by a stack test pursuant to [326 IAC 3-6](#). The shale and fuel sulfur content measurements for this purpose shall reflect a representative sample of the material fed into the kiln during each run of the stack test.

(Air Pollution Control Division; [326 IAC 7-4-11.1](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 9. [326 IAC 7-4-15](#) IS ADDED TO READ AS FOLLOWS:

326 IAC 7-4-15 Pike County sulfur dioxide emission limitationsAuthority: [IC 13-14-8](#); [IC 13-17-3](#)Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 15. (a) On and after January 1, 2017, sources and emission units located in Pike County shall comply with the sulfur dioxide emission limits and other requirements, as follows:

Source	Emission Unit Description	Emission Limit (lbs/hour) or Other Requirements	Emission Limit (lbs/MMBtu)
(1) Indianapolis Power & Light - Petersburg Generating Station Source ID No. 00002	(A) Unit 1	330.0	0.15
	(B) Unit 2	621.6	0.15
	(C) Unit 3	2,049.8	0.37
	(D) Unit 4	1,942.5	0.35
	(E) Diesel Generators PB-2, PB-3, and PB-4	500 hour calendar year operating limit (each)	

(2) Hoosier Energy - Ratts Source ID No. 00001	(A) Boiler 1	58	0.05
	(B) Boiler 2	58	0.05
	(C) No. 2 Auxiliary Boiler	1	0.05

(b) Compliance with the emission limits in subsection (a) shall be determined by using quality assured hourly average continuous emission monitoring system data, except as allowed under subsection (c).

(c) As an alternative to the emission limits in subsection (a)(1)(A) through (a)(1)(D), Indianapolis Power & Light - Petersburg Generating Station may comply with the following:

Emission Unit Description	Emission Limit (lbs/hour - 30 day rolling average)	Emission Limit (lbs/MMBtu - 30 day rolling average)
(1) Unit 1	263.0	0.12
(2) Unit 2	495.4	0.12
(3) Unit 3	1,633.7	0.29
(4) Unit 4	1,548.2	0.28

(d) Compliance with the emission limits in subsection (c) shall be determined by calculating the thirty (30) boiler operating day rolling arithmetic average emission rate at the end of each boiler operating day using all of the quality assured hourly average continuous emission monitoring system data for the previous thirty (30) boiler operating days. Boiler operating day means a twenty-four (24) hour period that begins at midnight and ends the following midnight during which any fuel is combusted at any time in the boiler. It is not necessary for the fuel to be combusted the entire twenty-four (24) hour period.

(e) Indianapolis Power & Light shall notify the department prior to the compliance date to indicate if compliance for Units 1 through 4 will be determined using the emission limits in subsection (a) or subsection (c) and prior to switching from compliance with the set of emission limits in subsection (a) to subsection (c) or from subsection (c) to subsection (a). Indianapolis Power & Light may not switch between complying with the one (1) hour average limits in subsection (a) and the thirty (30) day rolling average limits in subsection (c) unless Indianapolis Power & Light continues to show compliance with the one (1) hour average limit for each boiler until the first thirty (30) boiler operating day rolling arithmetic average emission rate is calculated.

(Air Pollution Control Division; [326 IAC 7-4-15](#); filed Sep 2, 2015, 1:50 p.m.: [20150930-IR-326110356FRA](#))

SECTION 10. THE FOLLOWING ARE REPEALED: [326 IAC 7-4-2](#); [326 IAC 7-4-3](#); [326 IAC 7-4-11](#).

SECTION 11. SECTION 10 of this document takes effect January 1, 2017.

LSA Document #11-356(F)

Proposed Rule: [20150422-IR-326110356PRA](#)

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An [html](#) version of this document.

APPENDIX G

2000-2011 SO₂ EMISSION TRENDS DATA

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SO₂ EMISSION TRENDS BY CATEGORY AND YEAR FOR DAVIESS COUNTY

COUNTY_NAM	POLLUTANT	Year	Area	EGU	Non-Road (tpy)	Mobile (tpy)	Point (tpy)	Total (tpy)
Daviess County	SO2	2000	244		46.69	31.96	3.248	326
Daviess County	SO2	2001	245		47.82	31.08	3.523	328
Daviess County	SO2	2002	44		62.233414	41.62	183.8	332
Daviess County	SO2	2003	44.5		62.995964	33.703	188	329
Daviess County	SO2	2004	45		63.758514	25.787	192.2	327
Daviess County	SO2	2005	45.5		64.521064	17.87	196.3	324
Daviess County	SO2	2006	45.1		49.514383	13.438	193.2	301
Daviess County	SO2	2007	44.7		34.507701	9.0064	190.1	278
Daviess County	SO2	2008	44.3		19.501019	4.5746	187	255
Daviess County	SO2	2009	44.3		19.501019	4.5746	157.9	226
Daviess County	SO2	2011	55.6		1.2258149	3.1365	8.392	68

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

SO₂ EMISSION TRENDS BY CATEGORY AND YEAR FOR MARION COUNTY

COUNTY_NAM	POLLUTANT	Year	Area	EGU	Non-Road (tpy)	Mobile (tpy)	Point (tpy)	Total (tpy)
Marion County	SO2	2000	850	40378	688	926	3656	46499
Marion County	SO2	2001	870	43134	697	975	3873	49549
Marion County	SO2	2002	832	47318	661	932	9621	59365
Marion County	SO2	2003	843	48003	672	748	9657	59922
Marion County	SO2	2004	853	48688	682	563	9693	60479
Marion County	SO2	2005	863	49372	692	379	9729	61035
Marion County	SO2	2006	855	40799	534	285	8914	51388
Marion County	SO2	2007	848	32226	377	191	8098	41740
Marion County	SO2	2008	840	23654	220	97	7282	32093
Marion County	SO2	2009	840	23654	220	97	8346	33157
Marion County	SO2	2011	193	18998	125	122	4582	24021

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

SO₂ EMISSION TRENDS BY CATEGORY AND YEAR FOR MORGAN COUNTY

COUNTY_NAM	POLLUTANT	Year	Area	EGU	Non-Road (tpy)	Mobile (tpy)	Point (tpy)	Total (tpy)
Morgan County	SO2	2000	104	17668	50	99	611	18532
Morgan County	SO2	2001	105	16438	51	101	650	17344
Morgan County	SO2	2002	55	17216	49	115	1044	18479
Morgan County	SO2	2003	55	17414	50	94	1051	18664
Morgan County	SO2	2004	55	17611	50	74	1059	18850
Morgan County	SO2	2005	56	17809	51	53	1066	19035
Morgan County	SO2	2006	55	16700	38	40	1061	17894
Morgan County	SO2	2007	55	15590	26	27	1055	16753
Morgan County	SO2	2008	55	14481	13	14	1050	15612
Morgan County	SO2	2009	55	14481	13	14	877	15440
Morgan County	SO2	2011	24	10875	1	10	387	11297

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

SO₂ EMISSION TRENDS BY CATEGORY AND YEAR FOR PIKE COUNTY

COUNTY_NAM	POLLUTANT	Year	Area	EGU	Non-Road (tpy)	Mobile (tpy)	Point (tpy)	Total (tpy)
Pike County	SO2	2000	140	65109	26	20	12	65307
Pike County	SO2	2001	141	63427	26	20	12	63626
Pike County	SO2	2002	14	65208	25	21	17	65285
Pike County	SO2	2003	16	61065	26	17	17	61141
Pike County	SO2	2004	18	56921	26	13	18	56996
Pike County	SO2	2005	20	52778	26	9	18	52851
Pike County	SO2	2006	18	47721	20	7	18	47784
Pike County	SO2	2007	17	42663	14	5	17	42716
Pike County	SO2	2008	15	37606	8	2	17	37649
Pike County	SO2	2009	15	37606	8	2	22	37654
Pike County	SO2	2011	14	34729	1	2	3	34749

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

SO₂ EMISSION TRENDS BY CATEGORY AND YEAR FOR VIGO COUNTY

COUNTY_NAM	POLLUTANT	Year	Area	EGU	Non-Road (tpy)	Mobile (tpy)	Point (tpy)	Total (tpy)
Vigo County	SO2	2000	1025	58472	113	144	3219	62972
Vigo County	SO2	2001	1050	52778	115	138	3424	57506
Vigo County	SO2	2002	112	61901	139	168	3850	66169
Vigo County	SO2	2003	112	63525	140	134	4463	68374
Vigo County	SO2	2004	113	65148	141	101	5076	70578
Vigo County	SO2	2005	114	66771	142	67	5689	72783
Vigo County	SO2	2006	113	58481	110	50	5229	63984
Vigo County	SO2	2007	113	50190	78	34	4770	55185
Vigo County	SO2	2008	112	41900	47	17	4310	46386
Vigo County	SO2	2009	112	41900	47	17	2908	44984
Vigo County	SO2	2011	36	55782	9	14	103	55944

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

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APPENDIX H

**2011 EMISSION INVENTORIES SUMMARY TABLE FOR
NONATTAINMENT AREAS COUNTIES**

AND

**2000-2011 EMISSION INVENTORIES TABLES FOR
EACH NONATTAINMENT AREA COUNTY**

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2011 SO₂ EMISSION INVENTORIES SUMMARY TABLE FOR NONATTAINMENT AREAS COUNTIES

TIER1_NAME	Category	Daviess (tpy)	Marion (tpy)	Morgan (tpy)	Pike (tpy)	Vigo (tpy)
CHEMICAL & ALLIED PRODUCT MFG	Point	0.001314	0	0	0	0
FUEL COMB. ELEC. UTIL.	EGU	0	18998.02	10875.29	34728.99	55782.42
FUEL COMB. INDUSTRIAL	Point	0.971098	4443.699	0.133213	2.075905	51.57061
FUEL COMB. OTHER	Area	51.81592	87.53444	20.54191	9.068694	30.68922
HIGHWAY VEHICLES	On- highway	3.136548	121.8751	9.923983	1.854086	13.71817
METALS PROCESSES	Point	0	124.9461	0	0	0.13675
MISCELLANEOUS	Area	1.668235	0.475091	1.639723	3.653314	1.820654
OFF-HIGHWAY	Off- highway	1.225815	125.3744	1.213487	1.37601	9.420189
OTHER INDUSTRIAL PROCESSES	Point	7.104835	13.81	386.8103	0	50.9896
PETROLEUM & RELATED INDUSTRIES	Point	0.315186	0.001741	0	0.665124	0.092612
SOLVENT UTILIZATION	Area	0	0	0	0	0
STORAGE & TRANSPORT	Point	0	0	0	0	0
WASTE DISPOSAL & RECYCLING	Area	2.145145	105.202	1.867094	0.87844	0

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

2000-2011 SO₂ EMISSION INVENTORIES FOR DAVIESS COUNTY

TIER1_NAME	Category	2000 (tpy)	2001 (tpy)	2002 (tpy)	2003 (tpy)	2004 (tpy)	2005 (tpy)	2006 (tpy)	2007 (tpy)	2008 (tpy)	2009 (tpy)	2011 (tpy)
CHEMICAL & ALLIED PRODUCT MFG	Point	0	0	0	3.786667	7.573333	11.36	8.52	5.68	2.84	2.398016	0.001314
FUEL COMB. INDUSTRIAL	Point	3.083	3.358	177.7605	177.8055	177.8504	177.8954	177.867	177.8387	177.8103	150.138	0.971098
FUEL COMB. OTHER	Area	239.429	240.384	35.99601	35.99601	35.99601	35.99601	35.98277	35.96954	35.9563	35.9563	51.81592
HIGHWAY VEHICLES	On- highway	31.96	31.08	41.62	33.70333	25.78667	17.87	13.43819	9.006371	4.574557	4.574557	3.136548
MISCELLANEOUS	Area	0.23	0.17	0.080097	0.343398	0.606699	0.87	0.6525	0.435	0.2175	0.2175	1.668235
OFF-HIGHWAY	Off- highway	46.69	47.82	62.23341	62.99596	63.75851	64.52106	49.51438	34.5077	19.50102	19.50102	1.225815
OTHER INDUSTRIAL PROCESSES	Point	0	0	5.55	5.89	6.23	6.57	6.31888	6.06776	5.81664	4.911406	7.104835
PETROLEUM & RELATED INDUSTRIES	Point	0.165	0.165	0.5	0.5	0.5	0.5	0.50125	0.5025	0.50375	0.425352	0.315186
WASTE DISPOSAL & RECYCLING	Area	4.688	4.836	7.95	8.18	8.41	8.64	8.47553	8.31106	8.14659	8.14659	2.145145

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

2000-2011 SO₂ EMISSION INVENTORIES FOR MARION COUNTY

TIER1_NAME	Category	2000 (tpy)	2001 (tpy)	2002 (tpy)	2003 (tpy)	2004 (tpy)	2005 (tpy)	2006 (tpy)	2007 (tpy)	2008 (tpy)	2009 (tpy)	2011 (tpy)
CHEMICAL & ALLIED PRODUCT MFG	Point	0	0	0	0	0	0	0	0	0	0	0
FUEL COMB. ELEC. UTIL.	EGU	40378.4	43134.23	47318.33	48002.96	48687.59	49372.23	40799.34	32226.46	23653.58	23653.58	18998.02
FUEL COMB. INDUSTRIAL	Point	3075.678	3250.83	9383.65	9424.66	9465.67	9506.68	8687.304	7867.927	7048.551	8078.38	4443.699
FUEL COMB. OTHER	Area	594.377	604.664	594.74	596.89	599.04	601.19	599.5748	597.9596	596.3443	596.3443	87.53444
HIGHWAY VEHICLES	On- highway	926.38	975.03	932.23	747.84	563.45	379.06	285.0759	191.0918	97.10775	97.10775	121.8751
METALS PROCESSING	Point	580.152	621.3	214.66	209.6767	204.6933	199.71	203.4503	207.1906	210.9308	241.7489	124.9461
MISCELLANEOUS	Area	0.32	0.17	1.09E-05	7.28E-06	3.64E-06	0	0	0	0	0	0.475091
OFF-HIGHWAY	Off- highway	688.46	697.4	661.4541	671.5441	681.6341	691.7242	534.4694	377.2146	219.9598	219.9598	125.3744
OTHER INDUSTRIAL PROCESSES	Point	0.103	0.106	7.711	7.924	8.137	8.35	8.19075	8.0315	7.87225	9.022426	13.81
PETROLEUM & RELATED INDUSTRIES	Point	0.34	0.34	14.58	14.58	14.58	14.58	14.58188	14.58375	14.58563	16.71666	0.001741
SOLVENT UTILIZATION	Area	8.628	9.306	0.00074	0.00074	0.00074	0.00074	0.00074	0.00074	0.00074	0.00074	
STORAGE & TRANSPORT	Point	0	0	0	0	0	0	0	0	0	0	
WASTE DISPOSAL & RECYCLING	Area	246.556	255.687	237.73	245.7733	253.8167	261.86	255.8344	249.8088	243.7832	243.7832	105.202

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

2000-2011 SO₂ EMISSION INVENTORIES FOR MORGAN COUNTY

TIER1_NAME	Category	2000 (tpy)	2001 (tpy)	2002 (tpy)	2003 (tpy)	2004 (tpy)	2005 (tpy)	2006 (tpy)	2007 (tpy)	2008 (tpy)	2009 (tpy)	2011 (tpy)
FUEL COMB. ELEC. UTIL.	EGU	17668.48	16437.69	17216.01	17413.68	17611.36	17809.03	16699.67	15590.32	14480.96	14480.96	10875.29
FUEL COMB. INDUSTRIAL	Point	3.46	3.768	241.2017	241.2017	241.2017	241.2017	241.2035	241.2053	241.2072	201.5574	0.133213
FUEL COMB. OTHER	Area	94.505	94.876	42.83068	42.83068	42.83068	42.83068	42.82598	42.82128	42.81658	42.81658	20.54191
HIGHWAY VEHICLES	On- highway	99.16	100.99	114.77	94.20333	73.63667	53.07	39.91138	26.75276	13.59414	13.59414	9.923983
MISCELLANEOUS	Area	0.55	0.37	0.072617	0.428411	0.784206	1.14	0.855	0.57	0.285	0.285	1.639723
OFF-HIGHWAY	Off- highway	49.9	51.22	49.19048	49.80565	50.42082	51.036	38.39146	25.74692	13.10238	13.10238	1.213487
OTHER INDUSTRIAL PROCESSES	Point	605.912	644.539	802.89	810.1833	817.4767	824.77	819.3035	813.837	808.3705	675.4901	386.8103
PETROLEUM & RELATED INDUSTRIES	Point	1.204	1.204	0	0	0	0	0	0	0	0	0
STORAGE & TRANSPORT	Point											0
WASTE DISPOSAL & RECYCLING	Area	9.2	9.422	11.8	11.8	11.8	11.8	11.80144	11.80287	11.80431	11.80431	1.867094

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

2000-2011 SO₂ EMISSION INVENTORIES FOR PIKE COUNTY

TIER1_NAME	Category	2000 (tpy)	2001 (tpy)	2002 (tpy)	2003 (tpy)	2004 (tpy)	2005 (tpy)	2006 (tpy)	2007 (tpy)	2008 (tpy)	2009 (tpy)	2011 (tpy)
FUEL COMB. ELEC. UTIL.	EGU	65109.18	63426.51	65208.01	61064.6	56921.18	52777.77	47720.58	42663.39	37606.19	37606.19	34728.99
FUEL COMB. INDUSTRIAL	Point	12.409	12.275	16.63771	17.10185	17.56598	18.03012	17.68486	17.3396	16.99435	21.85663	2.075905
FUEL COMB. OTHER	Area	134.949	135.487	9.184515	9.184515	9.184515	9.184515	9.186845	9.189175	9.191505	9.191505	9.068694
HIGHWAY VEHICLES	On- highway	19.95	20.28	21.46	17.45255	13.44511	9.437659	7.096933	4.756207	2.415481	2.415481	1.854086
MISCELLANEOUS	Area	0.56	0.38	0.019112	1.659408	3.299704	4.94	3.705	2.47	1.235	1.235	3.653314
OFF-HIGHWAY	Off- highway	25.89	26.49	25.49252	25.76614	26.03975	26.31336	20.16038	14.0074	7.854412	7.854412	1.37601
PETROLEUM & RELATED INDUSTRIES	Point											0.665124
WASTE DISPOSAL & RECYCLING	Area	4.563	4.67	4.56	4.893333	5.226667	5.56	5.316973	5.073945	4.830918	4.830918	0.87844

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

2000-2011 SO₂ EMISSION INVENTORIES FOR VIGO COUNTY

TIER1_NAME	Category	2000 (tpy)	2001 (tpy)	2002 (tpy)	2003 (tpy)	2004 (tpy)	2005 (tpy)	2006 (tpy)	2007 (tpy)	2008 (tpy)	2009 (tpy)	2011 (tpy)
CHEMICAL & ALLIED PRODUCT MFG	Point	0	0	0	0	0	0	0	0	0	0	
FUEL COMB. ELEC. UTIL.	EGU	58472.37	52778.02	61901.23	63524.65	65148.06	66771.48	58480.96	50190.44	41899.92	41899.92	55782.42
FUEL COMB. INDUSTRIAL	Point	3199.495	3404.028	3839.961	4449.646	5059.33	5669.015	5211.756	4754.498	4297.24	2899.066	51.57061
FUEL COMB. OTHER	Area	1001.657	1026.342	91.58823	91.69156	91.7949	91.89823	91.82552	91.75282	91.68011	91.68011	30.68922
HIGHWAY VEHICLES	On- highway	143.52	137.7	167.85	134.2467	100.6433	67.04	50.41969	33.79938	17.17906	17.17906	13.71817
METALS PROCESSING	Point	4.233	4.503	0.06	0.053333	0.046667	0.04	0.04692	0.05384	0.06076	0.040991	0.13675
MISCELLANEOUS	Area	0.39	0.26	0.000142	0.130095	0.260047	0.39	0.2925	0.195	0.0975	0.0975	1.820654
OFF-HIGHWAY	Off- highway	112.77	115.43	138.5284	139.5431	140.5579	141.5726	109.9889	78.40512	46.82138	46.82138	9.420189
OTHER INDUSTRIAL PROCESSES	Point	15.042	15.635	10.28	13.49667	16.71333	19.93	17.51875	15.1075	12.69625	8.565327	50.9896
PETROLEUM & RELATED INDUSTRIES	Point	0	0	0	0	0	0	0	0	0	0	0.092612

Note: emissions information obtained from the U.S. Environmental Protection Agency's National Emissions Inventory Database.

APPENDIX I

2018 PROJECTED SULFUR DIOXIDE EMISSION REDUCTIONS BASED ON CURRENT AND FUTURE SULFUR DIOXIDE EMISSION LIMITS

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2018 PROJECTED SULFUR DIOXIDE EMISSION REDUCTIONS FOR SOURCES IN NONATTAINMENT AREAS

Modeled Source	Emission Unit	Current SO2 Emission Limits		2011 Allowable SO2 Emissions (tons/yr)	Future SO2 Emission Limits		2018 Allowable SO2 Emissions (tons/yr)	Projected SO2 Emission Reductions (tons/yr)
		(lbs/MMBtu)	(lbs/hr)		(lbs/MMBtu)	(lbs/hr)		
Hoosier Energy - Ratts	Boiler 1	2.00		10000.00	0.05	58	254.04	9491.92
	Boiler 2	2.00			0.05	58	254.04	
	Auxiliary Boiler			0.45	0.05	1	0.45	0.00
IPL - Petersburg	Unit 1	6.00		57816.00	0.15	330	1445.40	56370.60
	Unit 2	6.00		108904.00	0.15	621.6	2722.61	106181.39
	Unit 3	1.20		16986.00	0.37	2049.8	8978.12	8007.88
	Unit 4	1.20		17016.00	0.35	1942.5	8508.15	8507.85
	PB2	500 Hour Operating Limit			500 Hour Operating Limit			0.00
	PB3							
	PB4							
Belmont Advanced Wastewater Treatment Plant	Incinerator 1	2.00 lbs/ton	14.19	62.15	8.0 lbs/ton	12.5	54.75	193.86
	Incinerator 2	2.00 lbs/ton	14.19	62.15				
	Incinerator 3	2.00 lbs/ton	14.19	62.15				
	Incinerator 4	2.00 lbs/ton	14.19	62.15				
	Incinerator 5	Not Operating						0.00
	Incinerator 6							0.00
	Incinerator 7							0.00
	Incinerator 8							0.00
Citizens Thermal	Boiler 11	2.1		2954.76	0.2	73.6	322.37	1926.34
	Boiler 13	2.1			0.2	80.6	353.03	
	Boiler 14	2.1			0.2	80.6	353.03	
	Boiler 12	2.1		1.15	0.0006	0.2634	1.15	0.00
	Boiler 15	2.1		0.89	0.0006	0.204	0.89	0.00
	Boiler 16	2.1		0.89	0.0006	0.204	0.89	0.00
	Boiler 17	0.3		594.33	0.3	72.6	317.99	276.34
	Boiler 18	0.3		594.33	0.3	72.6	317.99	276.34

Modeled Source	Emission Unit	Current SO2 Emission Limits		2011 Allowable SO2 Emissions	Future SO2 Emission Limits		2018 Allowable SO2 Emissions	Projected SO2 Emission Reductions (tons/yr)
		(lbs/MMBtu)	(lbs/hr)	(tons/yr)	(lbs/MMBtu)	(lbs/hr)	(tons/yr)	
IPL - Harding	Boiler 9	Not Operating						0.00
	Boiler 10							0.00
	Boiler 50	4.7	4780	20936.40	0.0006	0.6102	2.67	20933.73
	Boiler 60	4.7	4780	20936.40	0.0006	0.6102	2.67	20933.73
	Boiler 70	5.3	21851.9	95711.32	0.0006	2.4738	10.84	95700.49
	Gas Turbine 1			396.8	0.1	29.9	130.96	265.84
	Gas Turbine 2			396.8	0.1	29.9	130.96	265.84
	Gas Turbine 3	Not Operating						0.00
	Gas Turbine 4			45.25	0.1	87.5	45.25	0.00
	Gas Turbine 5				0.1	86.7		
	Gas Turbine 6			5.54	0.0006	0.996	5.5	0.04
	Emergency Generator	500 Hour Operating Limit			500 Hour Operating Limit			0.00
Quemetco	Main Stack S-100		73.2	320.62		52	227.76	1594.32
	WESP Stack		342.8	1501.46				
Rolls Royce	Boiler 0070-58	2.1	92.4	404.71	0.0015	0.07	0.31	9761.44
	Boiler 0070-59	2.1	92.4	404.71	0.0015	0.07	0.31	
	Boiler 0070-62	2.1	512.4	2244.31	0.0015	0.37	1.62	
	Boiler 0070-63	2.1	512.4	2244.31	0.0015	0.37	1.62	
	Boiler 0070-64	2.1	512.4	2244.31	0.1	2.44	10.69	
	Boiler 0070-65	2.1	512.4	2244.31	0.1	2.44	10.69	
	2 Gas Turbine Engines 0070-66	0.5	107	468.66	0.05	21.4	93.73	374.93
	12 Gas Turbine Engines 0070-67	0.5	163.20	714.82	0.05	32.64	142.96	571.85
	2 Gas Turbine Engines 0070-68a and 0070-68b	0.0006	39.00	0.42	0.0006	0.0468	0.20	0.22
	3 Gas Turbine Engines 0070-68c, 0070-68d, and 0070-68e (2 combustor units each)	0.5	81.60	357.41	0.05	16.32	71.48	285.93
	3 Gas Turbine Engines 0070-69	0.5	40.50	177.39	0.05	8.16	35.74	141.65
	Three Shack Heaters 0070-70	Burn Natural Gas			Burn Natural Gas			0.00
	Generating Turbine 0070-80	Burn Natural Gas or Landfill Gas			Burn Natural Gas or Landfill Gas			0.00
	Rental Generators			1.55	0.0015	0.023	0.10	1.45

Modeled Source	Emission Unit	Current SO2 Emission Limits		2011 Allowable SO2 Emissions	Future SO2 Emission Limits		2018 Allowable SO2 Emissions	Projected SO2 Emission Reductions (tons/yr)
		(lbs/MMBtu)	(lbs/hr)		(lbs/MMBtu)	(lbs/hr)		
Vertellus	70K Boiler 70-2722W	1.25	114.75	12.20	0.2	18.4	80.59	0.00
	30K Boiler 30-2726S	1.25	49.1		0.25	9.8	42.92	
	28K Boiler 28-186N	1.25	46		0.27	9.9	43.36	
	Boiler CB-70K	0.5		39.9	0.0006	0.0547	0.239586	39.66
	BM Furnace BM2724W	1.25	26.3	115.19	0.05	1.1	4.82	110.38
	Box Furnace BX2707V	1.25	20	87.60	0.05	0.8	3.504	84.10
	DAB Furnace 732714	1.25	45	197.10	0.05	2.8	12.264	184.84
	Born Heater 722804	0.05	0.05	0.22	0.05	0.34	1.4892	0.00
	Born Heater Furnace BXS2706Q	0.05	0.05	0.22	0.05	0.3	1.314	0.00
	EP Furnace EP2729Q	1.25	3.8	16.64	0.05	0.15	0.657	15.99
	CB20 CB600-300 Boiler	47 MMCF	1.18	5.17	0.09	2.3	10.074	0.00
	50K CN5-400 Boiler	47 MMCF	2.87	12.57	0.09	5.5	24.09	0.00
	BD Furnace BD2714V	1.25	18.8	82.34	0.05	0.75	3.29	79.06
	Heater BS2740Q	1.25	7.5	32.85	0.05	0.3	1.31	31.54
	Heater BT2728S	1.25	2.2	9.64	0.05	0.3	1.31	8.32
	Furnace HW-925-001	1.25	2	8.76	1.25	12.25	53.66	0.00
	CS Kettle Born Heater	Burn Natural Gas			Burn Natural Gas			0.00
	CS Still Born Heater	Burn Natural Gas			Burn Natural Gas			0.00
	Born Hot Oil Furnace (Process Heater) Unit 2607T	Burn Natural Gas			Burn Natural Gas			0.00
IPL - Eagle Valley	Unit 1 Boiler			2573.80				14421.71
	Unit 2 Boiler							
	Unit 3 Bolier			2047.00				
	Unit 4 Bolier			2895.00				
	Unit 5 Bolier			2895.00				
	Unit 6 boiler			3973.00				
	PR-10 Generator			69.70				
	Combustion Turbine 1				0.0014	3.5588	15.587544	
	Combustion Turbine 2				0.0014	3.5588	15.587544	
	Aux. Boiler				0.0014	0.11102	0.4862676	
	Dew Point Heater				0.0014	0.02912	0.1275456	

Modeled Source	Emission Unit	Current SO2 Emission Limits		2011 Allowable SO2 Emissions	Future SO2 Emission Limits		2018 Allowable SO2 Emissions	Projected SO2 Emission Reductions (tons/yr)
		(lbs/MMBtu)	(lbs/hr)	(tons/yr)	(lbs/MMBtu)	(lbs/hr)	(tons/yr)	
Duke Energy - Wabash River	Unit 6 boiler			51654	0.5	1,499.50	6567.81	45086.19
	Diesel Generator, 7A	500 Hour Operating Limit			500 Hour Operating Limit			0.00
								0.00
	Diesel Generator, 7B	500 Hour Operating Limit			500 Hour Operating Limit			0.00
								0.00
	Diesel Generator, 7C	500 Hour Operating Limit			500 Hour Operating Limit			0.00
								0.00
Combined Cycle Plant	Combustion Turbine			1463	0.195	333.76	1461.87	1.13
sgSolutions	Tail Gas Incinerator			944	--	230	1007.40	0.00
	Process Flare *	500 Hour Operating Limit			500 Hour Operating Limit			0.00
Sony DADC	Unit 001 Kewanee Boiler		0.36	87.6	0.05	0.523	2.29	69.51
	Unit 002 Kewanee Boiler		0.36		0.05	0.523	2.29	
	Unit 003 Burnham Boiler				0.05	0.493	2.16	
	Unit 004 Burnham Boiler				0.05	0.493	2.16	
	Unit 005 Superior Boiler Works Boiler				0.05	0.84	3.68	
	Unit 006 Superior Boiler Works Boiler				0.05	0.84	3.68	
	Unit 018 Boiler				0.05	0.418	1.83	
Taghleef Industries	Murray Iron Works Boiler	0.5	0.51	7.3				6.89
	Murray Iron Works Boiler	0.5	0.51					
	Clayton Standby Boiler	0.5	0.51		0.0015	0.05	0.22	
	Nebraska Boiler	0.5	0.51		0.0015	0.03	0.13	
	Nebraska Boiler-D				0.0006	0.0126	0.06	
Terre Haute Regional Hospital	Boiler 1	0.45	5.625	24.64	0.45	5.625	24.64	0.00
	Boiler 2	0.45	5.625	24.64	0.45	5.625	24.64	0.00
Terre Haute Union Hospital	Boiler 1	0.36	14.08	61.65	0.36	14.08	61.65	0.00
	Boiler 2	0.36	14.08	61.65	0.36	14.08	61.65	0.00

TOTAL 402203.26

APPENDIX J

PUBLIC PARTICIPATION PROCESS DOCUMENTATION

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LEGAL NOTICE OF PUBLIC HEARING

Draft 1-Hour SO₂ NAAQS Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike and Vigo Counties, Indiana

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) is accepting written comment and providing an opportunity for a public hearing regarding the Draft 1-Hour Sulfur Dioxide (SO₂) National Ambient Air Quality Standard (NAAQS) Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike, and Vigo Counties, Indiana. All interested persons are invited and will be given reasonable opportunity to express their views concerning the submittal of the proposed 1-hour SO₂ NAAQS attainment demonstration and technical support document.

U.S. EPA designated nonattainment areas under the 1-hour SO₂ NAAQS on August 5, 2013. These designations became effective on October 4, 2013. Four areas comprised of nine townships in five counties in the State of Indiana were designated nonattainment under subpart 1 of Section 107 of the Clean Air Act (CAA). The four designated nonattainment areas are: 1) Southwest Indiana, comprised of Veale Township in Daviess County and Washington Township in Pike County; 2) Indianapolis, Indiana comprised of Wayne, Center, and Perry Townships in Marion County; 3) Morgan County Indiana comprised of Clay and Washington Townships in Morgan County; 4) Terre Haute, Indiana comprised of Fayette and Harrison Townships in Vigo County. A plan to reduce SO₂ emissions is required for nonattainment areas under Section 172 of the CAA. The plan must include an attainment demonstration that shows the area will meet the 1-hour SO₂ NAAQS within five years of designation or by October 4, 2018.

Copies of the draft documents will be available on or before Monday, August 10, 2015, to any person upon request at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate Avenue, Room N1003, Indianapolis, Indiana
- Washington Carnegie Public Library
300 West Main Street
Washington, IN 47501
- Indianapolis - Marion County Public Library - Central Library
One Library Square, 40 East Saint Clair Street
Indianapolis, IN 46204
- Wayne Township Public Library
198 South Girls School Road
Indianapolis, IN 46231

- IMCPL - West Indianapolis Branch
1216 S. Kappes Street
Indianapolis, Indiana 46221
- Morgan County Public Library
110 S Jefferson Street
Martinsville, IN 46151
- Petersburg-Barrett Memorial Library
1104 East Main Street
Petersburg, IN 47567
- IDEM Southwest Regional Office
1120 N. Vincennes Ave
P.O. Box 128
Petersburg, IN 47567
- Vigo County Public Library - West Branch
626 West National Avenue
West Terre Haute, IN 47885
- Vigo County Public Library
One Library Square
Terre Haute, IN 47807

The draft documents will also be available on the following web page:

<http://www.in.gov/idem/airquality/2638.htm>

Any person may submit written comments on the Draft 1-Hour Sulfur Dioxide National Ambient Air Quality Standard Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike, and Vigo Counties, Indiana. Written comments should be directed to:

Ms. Jean Boling
Indiana Department of Environmental Management
Office of Air Quality, Room 1003
100 North Senate Avenue
Indianapolis, Indiana 46204

Comments can also be submitted via fax number (317) 233-5967 or e-mail at jboling@idem.IN.gov. Comments must be submitted by September 21, 2015. Interested parties may also present oral or written comments at the public hearing, if held. Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

A public hearing on the Draft 1-Hour Sulfur Dioxide National Ambient Air Quality Standard Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike, and Vigo Counties, Indiana will be held if a public hearing request is received by August 24, 2015. If a hearing is requested, the hearing will be held on September 8, 2015. The hearing will convene at 3:00 p.m. local time at the Indianapolis Public Library - West Indianapolis Branch located at 1216 S. Kappes Street, Indianapolis, Indiana 46221. If a request for a public hearing is not received by August 24, 2015, the hearing will be cancelled. Interested parties can check the online IDEM calendar at <http://www.in.gov/activecalendar/EventList.aspx> or contact Ms. Jean Boling at (317) 232-8228, after August 24, 2015, to see if the hearing has been cancelled or will convene.

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public for inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Ms. Jean Boling, at the Indiana Department of Environmental Management, Office of Air Quality, Room N1003, Indiana Government Center North, 100 North Senate Avenue, Indianapolis, IN 46204 or call (317) 232-8228 or (800) 451-6027 ext. 2-8244 (in Indiana).

Speech and hearing impaired callers may contact the agency via the Indiana Relay Service at 1-800-743-3333.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

August 5, 2015

CERTIFICATE OF PUBLICATION

This is to certify that the Indiana Department of Environmental Management (IDEM) Notice of the opportunity for a Public Hearing regarding the following:

- DRAFT 1-Hour SO₂ NAAQS Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike and Vigo Counties, Indiana

was published on IDEM's web site on August 5, 2015. It is expected that it will remain posted on the site until at least September 21, 2015.

The notice in full was available online at the following web address, under "Southwestern", "Central" and "Western".

<http://www.in.gov/idem/5474.htm>

Web publication of the notice was at the request of Scott Deloney, Branch Chief, Programs Branch, Office of Air Quality, IDEM.

By:

Mike Finklestein
IDEM Webmaster

Attachments:
Copy of web page as published.

Desktop environment showing a Windows 7 desktop with a stone wall background. The taskbar includes icons for Adobe FormsCentral, Windows Explorer (Z), Copy of Lake County PM..., Adobe Reader XI, Firefox, Ozone Sta..., Application Launcher, Microsoft PowerPoint, SO2 Source Oriented A..., ACS, Mozilla Firefox, Federal Register D..., Calculator, desktop.ini, 1ja-shrv-38..., and a red circular icon.

A "Date and Time" dialog box is open, showing the date as Wednesday, August 05, 2015, and the time as 4:45:46 PM. The time zone is set to (UTC-05:00) Eastern Time (US & Canada). The dialog box includes a "Change date and time..." button and a "Change time zone..." button. A notification checkbox is checked, and there are links for "Get more time zone information online" and "How do I set the clock and time zone?".

Web browser showing the IN.gov website. The top navigation bar includes links for Text, Find an Agency, Find a Person, Account Center, Online Services, FAQs, and Help. The IN.gov logo is prominently displayed. A search bar is located in the top right corner.

The main navigation menu includes links for About Indiana, Agriculture & Environment, Business & Employment, Education & Training, Family & Health, Law & Justice, Public Safety, Taxes & Finance, and Tourism & Transportation.

The page title is "Indiana Department of Environmental Management". The breadcrumb trail shows "IDEM > Public Notices > Public Notices: Southwest Indiana".

Public Notices: Southwest Indiana

This is the IDEM Public Notice Site for the Southwest Region covering the counties of [Crawford](#), [Daviess](#), [Dubois](#), [Gibson](#), [Greene](#), [Knox](#), [Lawrence](#), [Martin](#), [Orange](#), [Perry](#), [Pike](#), [Posey](#), [Spencer](#), [Vanderburgh](#), and [Warrick](#). This page is designed to provide public access to all agency public notices for this region as required by statute or rule including: permitting, rulemaking, meeting and hearing notices. Click highlighted links to view additional information related to the notice. Unless otherwise noted, contact information is included on the notices.

The [IN.gov News and Events Calendar](#) provides information on public meetings that do not require public notice.

Subscriptions: Want to know about new notices as soon as they're posted? You can now subscribe to this regional public notice page. By subscribing to a region, you will be sent an e-mail or text message to your phone every time IDEM adds information to this regional page. This allows you to stay current on all posting and never miss a new posting. To subscribe, click on the subscription link in the left hand column.

Southwest Indiana

Public Notices: Southwestern Region				
Name or Facility	Type of Notice/Event	Publication Dates	Public Comment?	Additional Information
Multi-County Notices				
Draft 1-Hour SO2 NAAQS Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike and Vigo Counties, Indiana	Legal Notice and Opportunity for Public Hearing (PDF)	08/10/2015 - 09/21/2015	Yes	Counties: Daviess, Marion, Morgan, Pike and Vigo Project Manager: Jean Boling Additional Attainment Demonstration documents are available on the Sulfur Dioxide Attainment Demonstrations page
Sun Energy Group LLC - Hilsmeier Mine	NPDES 15-7 "Modification" General	07/16/2015 - 08/03/2015	No	Counties: Dubois and Pike

Shortcut Assistant PROGRAM

Adobe FormsCentral Windows Explorer (2) Copy of Lake County PM... Adobe Reader (2)

Date and Time

Date and Time Additional Clocks


 Date: Wednesday, August 05, 2015
 Time: 4:47:24 PM
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Time zone
(UTC-05:00) Eastern Time (US & Canada)
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Daylight Saving Time ends on Sunday, November 01, 2015 at 2:00 AM. The clock is set to go back 1 hour at that time.

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Public Notices: Western Indiana

This is the IDEM Public Notice Site for the Western Region covering the counties of [Benton](#), [Carroll](#), [Clay](#), [Fountain](#), [Montgomery](#), [Owen](#), [Parke](#), [Putnam](#), [Sullivan](#), [Tippecanoe](#), [Vermillion](#), [Vigo](#), [Warren](#), and [White](#). This page is designed to provide public access to all agency public notices for this region as required by statute or rule including: permitting, rulemaking, meeting and hearing notices. Click highlighted links to view additional information related to the notice. Unless otherwise noted, contact information is included on the notices.

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Western Indiana

Public Notices: Western Region				
Name or Facility	Type of Notice/Event	Publication Dates	Public Comment?	Additional Information
Multi-County Notices				
Draft 1-Hour SO2 NAAQS Attainment Demonstration and Technical Support Document for Daviess, Marion, Morgan, Pike and Vigo Counties, Indiana	Legal Notice and Opportunity for Public Hearing (PDF)	08/10/2015 - 09/21/2015	Yes	Counties: Daviess, Marion, Morgan, Pike and Vigo Project Manager: Jean Boling Additional Attainment Demonstration documents are available on the Sulfur Dioxide Attainment Demonstrations page
Benton				
Oxford Water Utility	Wellhead Protection Plan	07/17/2015 -	Yes	Project Manager: Tim Sullivan

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ATTACHMENT L

**1-HOUR SULFUR DIOXIDE ATTAINMENT
DEMONSTRATION MODELING FILES
(ENCLOSED WITH MS. HEDMAN'S COPY
ON AN EXTERNAL DRIVE)**

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Because of the size of the files involved, a large external drive containing 1-hour sulfur dioxide attainment demonstration modeling files was included only with Ms. Hedman's copy of this SIP

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